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Chapter 173-02
METHODS OF OPERATION AND ORGANIZATION

173-02-010 Purpose. [Order 71-9, § 173-02-010, filed 8/4/71.] Repealed by 78-02-041 (Order DE 77-35), filed 1/17/78. Statutory Authority: RCW 42.17.250 through 42.17.340.

173-02-020 General responsibilities. [Order 71-9, § 173-02-020, filed 8/4/71.] Repealed by 78-02-041 (Order DE 77-35), filed 1/17/78. Statutory Authority: RCW 42.17.250 through 42.17.340.

173-02-030 Organization. [Order 71-9, § 173-02-030, filed 8/4/71.] Repealed by 78-02-041 (Order DE 77-35), filed 1/17/78. Statutory Authority: RCW 42.17.250 through 42.17.340.

173-02-040 Functions. [Order 71-9, § 173-02-040, filed 8/4/71.] Repealed by 78-02-041 (Order DE 77-35), filed 1/17/78. Statutory Authority: RCW 42.17.250 through 42.17.340.

173-02-050 Ecological commission. [Order 71-9, § 173-02-050, filed 8/4/71.] Repealed by 78-02-041 (Order DE 77-35), filed 1/17/78. Statutory Authority: RCW 42.17.250 through 42.17.340.

173-02-060 Public information. [Order 71-9, § 173-02-060, filed 8/4/71.] Repealed by 78-02-041 (Order DE 77-35), filed 1/17/78. Statutory Authority: RCW 42.17.250 through 42.17.340.

173-02-070 Submissions and requests. [Order 71-9, § 173-02-070, filed 8/4/71.] Repealed by 78-02-041 (Order DE 77-35), filed 1/17/78. Statutory Authority: RCW 42.17.250 through 42.17.340.

Chapter 173-08
ENVIRONMENTAL COORDINATION PROCEDURES ACT OF 1973—MASTER APPLICATION PROCEDURES

173-08-010 Authority. [Order DE 77-23, § 173-08-010, filed 12/1/77; Order 74-6, § 173-08-010, filed 5/1/74.] Repealed by 95-24-040 (Order 95-13), filed 11/30/95, effective 12/31/95. Statutory Authority: RCW 90.60.040.

173-08-020 Purpose. [Order DE 77-23, § 173-08-020, filed 12/1/77; Order 74-6, § 173-08-020, filed 5/1/74.] Repealed by 95-24-040 (Order 95-13), filed 11/30/95, effective 12/31/95. Statutory Authority: RCW 90.60.040.

173-08-030 Definitions. [Order DE 77-23, § 173-08-030, filed 12/1/77; Order 74-6, § 173-08-030, filed 5/1/74.] Repealed by 95-24-040 (Order 95-13), filed 11/30/95, effective 12/31/95. Statutory Authority: RCW 90.60.040.

173-08-040 Master application form. [Order DE 77-23, § 173-08-040, filed 12/1/77; Order 74-6, § 173-08-040, filed 5/1/74.] Repealed by 95-24-040 (Order 95-13), filed 11/30/95, effective 12/31/95. Statutory Authority: RCW 90.60.040.

173-08-050 Scope of master application procedure. [Order DE 77-23, § 173-08-050, filed 12/1/77; Order 74-6, § 173-08-050, filed 5/1/74.] Repealed by 95-24-040 (Order 95-13), filed 11/30/95, effective 12/31/95. Statutory Authority: RCW 90.60.040.

173-08-060 Certification. [Order 74-6, § 173-08-060, filed 5/1/74.] Repealed by Order DE 77-23, filed 12/1/77.

173-08-065 Modification of the proposed project. [Order DE 77-23, § 173-08-065, filed 12/1/77.] Repealed by 95-24-040 (Order 95-13), filed 11/30/95, effective 12/31/95. Statutory Authority: RCW 90.60.040.

173-08-070 Appeals to final decisions. [Order DE 77-23, § 173-08-070, filed 12/1/77.] Repealed by 95-24-040 (Order 95-13), filed 11/30/95, effective 12/31/95. Statutory Authority: RCW 90.60.040.

Chapter 173-10
PERMIT PROCESSING PROCEDURE APPLICABLE TO TWO OR MORE PERMIT PROGRAMS

173-10-010 Authority. [Order DE 75-26, § 173-10-010, filed 11/7/75.] Repealed by 95-24-040 (Order 95-13), filed 11/30/95, effective 12/31/95. Statutory Authority: RCW 90.60.040.

173-10-020 Purpose. [Order DE 75-26, § 173-10-020, filed 11/7/75.] Repealed by 95-24-040 (Order 95-13), filed 11/30/95, effective 12/31/95. Statutory Authority: RCW 90.60.040.

173-10-030 Definitions. [Order DE 75-26, § 173-10-030, filed 11/7/75.] Repealed by 95-24-040 (Order 95-13), filed 11/30/95, effective 12/31/95. Statutory Authority: RCW 90.60.040.

173-10-040 Single application form. [Order DE 75-26, § 173-10-040, filed 11/7/75.] Repealed by 95-24-040 (Order 95-13), filed 11/30/95, effective 12/31/95. Statutory Authority: RCW 90.60.040.

173-10-050 Public notice. [Order DE 75-26, § 173-10-050, filed 11/7/75.] Repealed by 95-24-040 (Order 95-13), filed 11/30/95, effective 12/31/95. Statutory Authority: RCW 90.60.040.

173-10-060 Procedures superseded. [Order DE 75-26, § 173-10-060, filed 11/7/75.] Repealed by 95-24-040 (Order 95-13), filed 11/30/95, effective 12/31/95. Statutory Authority: RCW 90.60.040.

173-10-070 Public hearing. [Order DE 75-26, § 173-10-070, filed 11/7/75.] Repealed by 95-24-040 (Order 95-13), filed 11/30/95, effective 12/31/95. Statutory Authority: RCW 90.60.040.

173-10-080 Public notice of public hearing. [Order DE 75-26, § 173-10-080, filed 11/7/75.] Repealed by 95-24-040 (Order 95-13), filed 11/30/95, effective 12/31/95. Statutory Authority: RCW 90.60.040.

173-10-090 Scope of single application procedure. [Order DE 75-26, § 173-10-090, filed 11/7/75.] Repealed by 95-24-040 (Order 95-13), filed 11/30/95, effective 12/31/95. Statutory Authority: RCW 90.60.040.

173-10-100 Final action on the single application. [Order DE 75-26, § 173-10-100, filed 11/7/75.] Repealed by 95-24-040 (Order 95-13), filed 11/30/95, effective 12/31/95. Statutory Authority: RCW 90.60.040.

173-10-110 Appeal. [Order DE 75-26, § 173-10-110, filed 11/7/75.] Repealed by 95-24-040 (Order 95-13), filed 11/30/95, effective 12/31/95. Statutory Authority: RCW 90.60.040.

Chapter 173-12
GENERAL PROCEDURE

173-12-010 Purpose. [Order DE 70-11, § 173-12-010, filed 1/5/71.] Repealed by 95-09-036 (Order 94-47), filed 4/13/95, effective 5/14/95. Statutory Authority: Chapter 43.21 and 34.05 RCW.

173-12-020 Scope of directions—Requests for advice and guidance. [Order DE 70-11, § 173-12-020, filed 1/5/71.] Repealed by 95-09-036 (Order 94-47), filed 4/13/95, effective 5/14/95. Statutory Authority: Chapter 43.21 and 34.05 RCW.

173-12-030 Requests of the director for advice and guidance. [Order 71-10, § 173-12-030, filed 8/4/71; Order DE 70-11, § 173-12-030, filed 1/5/71.] Repealed by 95-09-036 (Order 94-47), filed 4/13/95, effective 5/14/95. Statutory Authority: Chapter 43.21 and 34.05 RCW.

173-12-040 Ecological commission submission of views. [Order DE 70-11, § 173-12-040, filed 1/5/71.] Repealed by 95-09-036 (Order 94-47), filed 4/13/95, effective 5/14/95. Statutory Authority: Chapter 43.21 and 34.05 RCW.

173-12-050 Adoption of regulations. [Order 71-10, § 173-12-050, filed 8/4/71; Order DE 70-11, § 173-12-050, filed 1/5/71.] Repealed by 95-09-036 (Order 94-47), filed 4/13/95, effective 5/14/95. Statutory Authority: Chapter 43.21 and 34.05 RCW.

173-12-060 Meetings. [Order DE 72-16, § 173-12-060, filed 6/30/72.] Repealed by 95-09-036 (Order 94-47), filed 4/13/95, effective 5/14/95. Statutory Authority: Chapter 43.21 and 34.05 RCW.

Chapter 173-14
PERMITS FOR DEVELOPMENTS ON SHORELINES OF THE STATE

173-14-010 Authority. [Statutory Authority: RCW 90.58.200. 78-07-011 (Order DE 78-7), § 173-14-010, filed 6/14/78; Order DE 75-22, § 173-14-010, filed 10/16/75; Order 71-18, § 173-14-010, filed 12/16/71.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-14-020 Purpose. [Statutory Authority: RCW 90.58.200. 78-07-011 (Order DE 78-7), § 173-14-020, filed 6/14/78; Order DE 75-22, § 173-14-020, filed 10/16/75; Order 71-18, § 173-14-020, filed 12/16/71.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-14-030 Definitions. [Statutory Authority: RCW 90.58.120 and 90.58.200. 88-19-004 (Order DE 88-23), § 173-14-030, filed 9/8/88. Statutory Authority: Chapter 90.58 RCW. 86-12-011 (Order 86-06), § 173-14-030, filed 5/23/86. Statutory Authority: RCW 90.58.200. 78-07-011 (Order DE 78-7), § 173-14-030, filed 6/14/78; Order DE 76-17, § 173-14-030, filed 7/27/76; Order DE 75-22, § 173-14-030, filed 10/16/75; Order 71-18, § 173-14-030, filed 12/16/71.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-14-040 Developments exempt from substantial development permit requirement. [Statutory Authority: Chapter 90.58 RCW. 86-12-011 (Order 86-06), § 173-14-040, filed 5/23/86. Statutory Authority: RCW 90.58.030, 90.58.120 and 90.58.200. 85-09-043 (Order DE 85-05), § 173-14-040, filed 4/15/85. Statutory Authority: RCW 90.58.200. 78-07-011 (Order DE 78-7), § 173-14-040, filed 6/14/78; Order DE 76-17, § 173-14-040, filed 7/27/76; Order DE 75-28, § 173-14-040, filed 12/4/75; Order DE 75-22, § 173-14-040, filed 10/16/75; Order 71-18, § 173-14-040, filed 12/16/71.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-14-050 Application of the permit system to substantial development undertaken prior to the act. [Statutory Authority: RCW 90.58.200. 78-07-011 (Order DE 78-7), § 173-14-050, filed 6/14/78; Order 73-23, § 173-14-050, filed 10/23/73; Order 71-18, § 173-14-050, filed 12/16/71.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-14-055 Nonconforming development standards. [Statutory Authority: RCW 90.58.200. 87-16-101 (Order DE 87-09), § 173-14-055, filed 8/5/87. Statutory Authority: Chapter 90.58 RCW. 86-12-011 (Order 86-06), § 173-14-055, filed 5/23/86.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-14-060 Time requirements of permit. [Statutory Authority: RCW 90.58.200. 87-16-101 (Order DE 87-09), § 173-14-060, filed 8/5/87; 80-04-027 (Order DE 80-9), § 173-14-060, filed 3/18/80; 78-07-011 (Order DE 78-7), § 173-14-060, filed 6/14/78; Order DE 75-22, § 173-14-060, filed 10/16/75; Order 71-18, § 173-14-060, filed 12/16/71.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-14-062 Applicability of permit system to federal agencies. [Statutory Authority: RCW 90.58.200. 78-07-011 (Order DE 78-7), § 173-14-062, filed 6/14/78; Order DE 75-22, § 173-14-062, filed 10/16/75.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-14-064 Revisions to permits. [Statutory Authority: Chapter 90.58 RCW. 86-12-011 (Order 86-06), § 173-14-064, filed 5/23/86. Statutory Authority: RCW 90.58.030, 90.58.120 and 90.58.200. 85-09-043 (Order DE 85-05), § 173-14-064, filed 4/15/85. Statutory Authority: RCW 90.58.200. 78-07-011 (Order DE 78-7), § 173-14-064, filed 6/14/78; Order DE 76-17, § 173-14-064, filed 7/27/76; Order DE 75-22, § 173-14-064, filed 10/16/75.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-14-070 Notice required. [Statutory Authority: RCW 90.58.200. 78-07-011 (Order DE 78-7), § 173-14-070, filed 6/14/78; Order DE 76-17, § 173-14-070, filed 7/27/76; Order DE 75-22, § 173-14-070, filed 10/16/75; Order 71-18, § 173-14-070, filed 12/16/71.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-14-080 Public hearings. [Statutory Authority: RCW 90.58.200. 78-07-011 (Order DE 78-7), § 173-14-080, filed 6/14/78; Order DE 75-22, § 173-14-080, filed 10/16/75; Order 71-18, § 173-14-080, filed 12/16/71.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-14-090 Filing with department and attorney general. [Statutory Authority: Chapter 90.58 RCW. 86-12-011 (Order 86-06), § 173-14-090, filed 5/23/86. Statutory Authority: RCW 90.58.030, 90.58.120 and 90.58.200. 85-09-043 (Order DE 85-05), § 173-14-090, filed 4/15/85. Statutory Authority: RCW 90.58.200. 78-07-011 (Order DE 78-7), § 173-14-090, filed 6/14/78; Order DE 76-17, § 173-14-090, filed 7/27/76; Order DE 75-22, § 173-14-090, filed 10/16/75; Order 71-18, § 173-14-090, filed 12/16/71.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-14-100 Review criteria for substantial development permits. [Statutory Authority: RCW 90.58.200. 78-07-011 (Order DE 78-7), § 173-14-100, filed 6/14/78; Order DE 75-22, § 173-14-100, filed 10/16/75; Order 71-18, § 173-14-100, filed 12/16/71.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-14-110 Application for substantial development, conditional use, or variance permit. [Statutory Authority: RCW 90.58.200. 78-07-011 (Order DE 78-7), § 173-14-110, filed 6/14/78; Order DE 76-17, § 173-14-110, filed 7/27/76; Order DE 75-22, § 173-14-110, filed 10/16/75; Order 71-18, § 173-14-110, filed 12/16/71.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-14-115 Letter of exemption. [Statutory Authority: RCW 90.58.030, 90.58.120 and 90.58.200. 85-09-043 (Order DE 85-05), § 173-14-115, filed 4/15/85. Statutory Authority: RCW 90.58.200. 78-07-011 (Order DE 78-7), § 173-14-115, filed 6/14/78; Order DE 76-17, § 173-14-115, filed 7/27/76; Order DE 75-22, § 173-14-115, filed 10/16/75.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-14-120 Permits for substantial development, conditional use, or variance. [Statutory Authority: RCW 90.58.200. 78-07-011 (Order DE 78-7), § 173-14-120, filed 6/14/78; Order DE 76-17, § 173-14-120, filed 7/27/76; Order DE 75-22, § 173-14-120, filed 10/16/75; Order 71-18, § 173-14-120, filed 12/16/71.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-14-130 Department review of conditional use and variance permits. [Statutory Authority: Chapter 90.58 RCW. 86-12-011 (Order 86-06), § 173-14-130, filed 5/23/86. Statutory Authority: RCW 90.58.030, 90.58.120 and 90.58.200. 85-09-043 (Order DE 85-05), § 173-14-130, filed 4/15/85. Statutory Authority: RCW 90.58.200. 78-07-011 (Order DE 78-7), § 173-14-130, filed 6/14/78; Order DE 76-17, § 173-14-130, filed 7/27/76; Order DE 75-22, § 173-14-130, filed 10/16/75.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-14-140 Review criteria for conditional use permits. [Statutory Authority: Chapter 90.58 RCW. 86-12-011 (Order 86-06), § 173-14-140, filed 5/23/86. Statutory Authority: RCW 90.58.200 and 90.58.140(3). 81-04-027 (Order DE 80-52), § 173-14-140, filed 2/2/81. Statutory Authority: RCW 90.58.200. 78-07-011 (Order DE 78-7), § 173-14-140, filed 6/14/78; Order DE 75-22, § 173-14-140, filed 10/16/75.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-14-150 Review criteria for variance permits. [Statutory Authority: Chapter 90.58 RCW. 86-12-011 (Order 86-06), § 173-14-150, filed 5/23/86. Statutory Authority: RCW 90.58.200 and 90.58.140(3). 81-04-027 (Order DE 80-52), § 173-14-150, filed 2/2/81. Statutory Authority: RCW 90.58.200. 78-07-011 (Order DE 78-7), § 173-14-150, filed 6/14/78; Order DE 76-17, § 173-14-150, filed 7/27/76; Order DE 75-22, § 173-14-150, filed 10/16/75.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-14-155 Minimum standards for conditional use and variance permits. [Statutory Authority: RCW 90.58.200 and 98.58.140(3). 81-04-027 (Order DE 80-52), § 173-14-155, filed 2/2/81.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-14-160 Department of ecology review. [Order DE 76-17, § 173-14-160, filed 7/27/76; Order DE 75-22, § 173-14-160, filed 10/16/75.] Repealed by 78-07-001 (Order DE 78-7), filed 6/14/78. Statutory Authority: RCW 90.58.200.

173-14-170 Requests for review. [Statutory Authority: RCW 90.58.200. 78-07-011 (Order DE 78-7), § 173-14-170, filed 6/14/78; Order DE 75-22, § 173-14-170, filed 10/16/75.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-14-174 Certification of requests for review. [Statutory Authority: RCW 90.58.200. 78-07-011 (Order DE 78-7), § 173-14-174, filed 6/14/78.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-14-180 Regulatory orders by local government or the department. [Statutory Authority: Chapter 90.58 RCW. 86-12-011 (Order 86-06), § 173-14-180, filed 5/23/86. Statutory Authority: RCW 90.58.200 and 90.58.140(3). 81-04-027 (Order DE 80-52), § 173-14-180, filed 2/2/81. Statutory Authority: RCW 90.58.200. 78-07-011 (Order DE 78-7), § 173-14-180, filed 6/14/78; Order DE 76-17, § 173-14-180, filed 7/27/76; Order DE 75-22, § 173-14-180, filed 10/16/75.] Repealed by 87-16-101 (Order DE 87-09), filed 8/5/87. Statutory Authority: RCW 90.58.200.

173-14-190 Hearings on regulatory orders. [Statutory Authority: RCW 90.58.200. 78-07-011 (Order DE 78-7), § 173-14-190, filed 6/14/78; Order DE 75-22, § 173-14-190, filed 10/16/75.] Repealed by 81-04-027 (Order DE 80-52), filed 2/2/81. Statutory Authority: RCW 90.58.200 and 90.58.140(3).

Chapter 173-16
SHORELINE MANAGEMENT ACT GUIDELINES FOR DEVELOPMENT OF MASTER PROGRAMS

173-16-010 Purpose. [Order DE 72-12, § 173-16-010, filed 6/20/72 and 7/20/72.] Repealed by 00-24-031 (Order 95-17a), filed 11/29/00, effective 12/30/00. Statutory Authority: RCW 90.58.060 and 90.58.200.

173-16-020 Applicability. [Order DE 72-12, § 173-16-020, filed 6/20/72 and 7/20/72.] Repealed by 00-24-031 (Order 95-17a), filed 11/29/00, effective 12/30/00. Statutory Authority: RCW 90.58.060 and 90.58.200.

173-16-030 Definitions. [Statutory Authority: RCW 90.58.030, 90.58.120 and 90.58.200. 85-09-043 (Order DE 85-05), § 173-16-030, filed 4/15/85; Order DE 72-12, § 173-16-030, filed 6/20/72 and 7/20/72.] Repealed by 00-24-031 (Order 95-17a), filed 11/29/00, effective 12/30/00. Statutory Authority: RCW 90.58.060 and 90.58.200.

173-16-040 The master program. [Order DE 72-12, § 173-16-040, filed 6/20/72 and 7/20/72.] Repealed by 00-24-031 (Order 95-17a), filed 11/29/00, effective 12/30/00. Statutory Authority: RCW 90.58.060 and 90.58.200.

173-16-050 Natural systems. [Order DE 72-12, § 173-16-050, filed 6/20/72 and 7/20/72.] Repealed by 00-24-031 (Order 95-17a), filed 11/29/00, effective 12/30/00. Statutory Authority: RCW 90.58.060 and 90.58.200.

173-16-060 The use activities. [Statutory Authority: RCW 90.58.060 and 90.58.190. 80-15-072 (Order DE-80-37), § 173-16-060, filed 10/17/80; Order DE 72-12, § 173-16-060, filed 6/20/72 and 7/20/72.] Repealed by 00-24-031 (Order 95-17a), filed 11/29/00, effective 12/30/00. Statutory Authority: RCW 90.58.060 and 90.58.200.

173-16-064 Ocean management. [Statutory Authority: RCW 90.58.195. 91-10-033 (Order 91-08), § 173-16-064, filed 4/24/91, effective 5/25/91.] Decodified by 00-24-031 (Order 95-17a), filed 11/29/00, effective 12/30/00. Statutory Authority: RCW 90.58.060 and 90.58.200. Recodified as WAC 173-26-360.

173-16-070 Variances and conditional uses. [Statutory Authority: RCW 90.58.030, 90.58.120 and 90.58.200. 85-09-043 (Order DE 85-05), § 173-16-070, filed 4/15/85; Order DE 72-12, § 173-16-070, filed 6/20/72 and 7/20/72.] Repealed by 00-24-031 (Order 95-17a), filed 11/29/00, effective 12/30/00. Statutory Authority: RCW 90.58.060 and 90.58.200.

173-16-200 Appendix. [Order DE 72-12, § 173-16-200, filed 6/20/72 and 7/20/72.] Repealed by 00-24-031 (Order 95-17a), filed 11/29/00, effective 12/30/00. Statutory Authority: RCW 90.58.060 and 90.58.200.

Reviser's note: Later promulgation, see chapter 173-26 WAC.

Chapter 173-17
SHORELINE MANAGEMENT ACT ENFORCEMENT REGULATIONS

173-17-010 Authority and purpose. [Statutory Authority: RCW 90.58.200. 87-16-101 (Order DE 87-09), § 173-17-010, filed 8/5/87.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-17-020 Definitions. [Statutory Authority: RCW 90.58.200. 87-16-101 (Order DE 87-09), § 173-17-020, filed 8/5/87.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-17-030 Policy. [Statutory Authority: RCW 90.58.200. 87-16-101 (Order DE 87-09), § 173-17-030, filed 8/5/87.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-17-040 Order to cease and desist. [Statutory Authority: RCW 90.58.200. 87-16-101 (Order DE 87-09), § 173-17-040, filed 8/5/87.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-17-050 Civil penalty. [Statutory Authority: RCW 90.58.200. 87-16-101 (Order DE 87-09), § 173-17-050, filed 8/5/87.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-17-060 Appeal of civil penalty. [Statutory Authority: RCW 90.58.200. 87-16-101 (Order DE 87-09), § 173-17-060, filed 8/5/87.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-17-070 Criminal penalty. [Statutory Authority: RCW 90.58.200. 87-16-101 (Order DE 87-09), § 173-17-070, filed 8/5/87.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-17-080 Oil or natural gas exploration—Penalty. [Statutory Authority: RCW 90.58.200. 87-16-101 (Order DE 87-09), § 173-17-080, filed 8/5/87.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

Chapter 173-19
SHORELINE MANAGEMENT ACT OF 1971—STATE MASTER PROGRAM

173-19-010 Purpose. [Order DE 74-23, § 173-19-010, filed 12/30/74.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-020 Definitions. [Statutory Authority: Chapter 90.58 RCW. 86-12-011 (Order 86-06), § 173-19-020, filed 5/23/86; Order DE 74-23, § 173-19-020, filed 12/30/74.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-030 Master programs organized by county. [Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-030, filed 1/30/80; Order DE 74-23, § 173-19-030, filed 12/30/74.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-040 Date of adoption or approval. [Order DE 74-23, § 173-19-040, filed 12/30/74.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-044 Local government change of jurisdiction—Effect of annexation. [Statutory Authority: Chapter 90.58 RCW. 86-12-011 (Order 86-06), § 173-19-044, filed 5/23/86. Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 79-09-001 (Order DE 79-6), § 173-19-044, filed 8/2/79.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-050 Incorporation by reference. [Statutory Authority: Chapter 90.58 RCW. 86-12-011 (Order 86-06), § 173-19-050, filed 5/23/86; Order DE 74-23, § 173-19-050, filed 12/30/74.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-060 Amendment of master programs. [Statutory Authority: Chapter 90.58 RCW. 86-12-011 (Order 86-06), § 173-19-060, filed 5/23/86. Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-060, filed 1/30/80; 79-09-001 (Order DE 79-6), § 173-19-060, filed 8/2/79; Order DE 74-23, § 173-19-060, filed 12/30/74.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-061 Approval of master programs and amendments by local government. [Statutory Authority: Chapter 90.58 RCW. 86-12-011 (Order 86-06), § 173-19-061, filed 5/23/86.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-062 Submission of master programs and amendments by local government. [Statutory Authority: Chapter 90.58 RCW. 86-12-011 (Order 86-06), § 173-19-062, filed 5/23/86. Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-062, filed 1/30/80.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-064 Review and adoption of master programs and amendments by the department. [Statutory Authority: RCW 90.58.200. 87-16-101 (Order DE 87-09), § 173-19-064, filed 8/5/87. Statutory Authority: Chapter 90.58 RCW. 86-12-011 (Order 86-06), § 173-19-064, filed 5/23/86. Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-064, filed 1/30/80.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-070 Appeal procedures for master programs. [Statutory Authority: RCW 90.58.200. 87-16-101 (Order DE 87-09), § 173-19-070, filed 8/5/87; Order DE 74-23, § 173-19-070, filed 12/30/74.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-080 Applicability of master program to federal agencies. [Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-080, filed 1/30/80; Order DE 74-23, § 173-19-080, filed 12/30/74.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-090 Adams County. [Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 79-09-001 (Order DE 79-6), § 173-19-090, filed 8/2/79; Order DE 77-16, § 173-19-090, filed 9/9/77; Order DE 74-23, § 173-19-090, filed 12/30/74.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-100 Asotin County. [Statutory Authority: RCW 90.58.200. 94-16-085 (Order 94-05), § 173-19-100, filed 8/1/94, effective 9/1/94. Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-100, filed 1/30/80; 79-09-001 (Order DE 79-6), § 173-19-100, filed 8/2/79; Order DE 75-21, § 173-19-100, filed 8/12/75; Order DE 74-23, § 173-19-100, filed 12/30/74.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-1001 Asotin, city of. [Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-1001, filed 1/30/80.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-1002 Clarkston, city of. [Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-1002, filed 1/30/80.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-110 Benton County. [Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-110, filed 1/30/80; 79-11-053 (Order DE 79-28), § 173-19-110, filed 10/16/79; 79-09-001 (Order DE 79-6), § 173-19-110, filed 8/2/79; Order DE 76-15, § 173-19-110, filed 5/3/76; Order DE 75-21, § 173-19-110, filed 8/12/75; Order DE 74-23, § 173-19-110, filed 12/30/74.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-1101 Benton City, city of. [Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-1101, filed 1/30/80.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-1102 Kennewick, city of. [Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-1102, filed 1/30/80.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-1103 Prosser, city of. [Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-1103, filed 1/30/80.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-1104 Richland, city of. [Statutory Authority: RCW 90.58.200. 90-02-105 (Order 89-57), § 173-19-1104, filed 1/3/90, effective 2/3/90. Statutory Authority: RCW 90.58.120 and 90.58.200. 84-02-073 (Order DE 83-37), § 173-19-1104, filed 1/4/84; 83-14-003 (Order DE 83-17), § 173-19-1104, filed 6/23/83. Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-1104, filed 1/30/80.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-1105 West Richland, city of. [Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-1105, filed 1/30/80.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-120 Chelan County. [Statutory Authority: RCW 90.58.200. 94-10-081 (Order 94-04), § 173-19-120, filed 5/4/94, effective 6/4/94. Statutory Authority: RCW 90.58.120 and 90.58.200. 83-21-094 (Order DE 83-27), § 173-19-120, filed 10/19/83; 81-20-042 (Order DE 81-27), § 173-19-120, filed 10/1/81; 81-15-062 (Order DE 81-23), § 173-19-120, filed 7/20/81. Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-08-054 (Order DE 80-25), § 173-19-120, filed 6/30/80; 80-02-123 (Order DE 79-34), § 173-19-120, filed 1/30/80; 79-09-001 (Order DE 79-6), § 173-19-120, filed 8/2/79; Order DE 75-21, § 173-19-120, filed 8/12/75; Order DE 74-23, § 173-19-120, filed 12/30/74.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-1201 Cashmere, city of. [Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-1201, filed 1/30/80.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-1202 Chelan, city of. [Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-1202, filed 1/30/80.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-1203 Entiat, town of. [Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-1203, filed 1/30/80.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-1204 Leavenworth, city of. [Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-1204, filed 1/30/80.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-1205 Wenatchee, city of. [Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-1205, filed 1/30/80.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-130 Clallam County. [Statutory Authority: RCW 90.58.200. 92-13-081 (Order 92-13), § 173-19-130, filed 6/16/92, effective 7/17/92; 89-22-139 (Order 89-17), § 173-19-130, filed 11/1/89, effective 12/2/89. Statutory Authority: RCW 90.58.120 and 90.58.200. 88-07-009 (Order DE 87-51), § 173-19-130, filed 3/3/88; 86-12-069 (Order DE 86-07), § 173-19-130, filed 6/4/86; 86-04-040 (Order DE 85-13), § 173-19-130, filed 1/31/86; 84-08-030 (Order DE 83-41), § 173-19-130, filed 3/29/84; 83-02-066 (Order DE 82-48), § 173-19-130, filed 1/5/83. Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-130, filed 1/30/80; 79-11-053 (Order DE 79-28), § 173-19-130, filed 10/16/79; 79-09-131 (Order DE 79-16), § 173-19-130, filed 9/5/79; 79-09-001 (Order DE 79-6), § 173-19-130, filed 8/2/79; Order DE 77-16, § 173-19-130, filed 9/9/77; Order DE 74-23, § 173-19-130, filed 12/30/74.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-1301 Port Angeles, city of. [Statutory Authority: Chapter 90.58 RCW. 95-12-057 (Order 94-28), § 173-19-1301, filed 6/2/95, effective 7/3/95. Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-1301, filed 1/30/80.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-140 Clark County. [Statutory Authority: RCW 90.58.200. 93-01-108 (Order 92-45), § 173-19-140, filed 12/18/92, effective 1/18/93. Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-140, filed 1/30/80; 79-09-001 (Order DE 79-6), § 173-19-140, filed 8/2/79; Order DE 76-15, § 173-19-140, filed 5/3/76; Order DE 74-23, § 173-19-140, filed 12/30/74.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-1401 Camas, city of. [Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-1401, filed 1/30/80.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-1402 LaCenter, town of. [Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-1402, filed 1/30/80.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-1403 Ridgefield, town of. [Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-1403, filed 1/30/80.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-1404 Vancouver, city of. [Statutory Authority: RCW 90.58.200. 93-01-109 (Order 92-46), § 173-19-1404, filed 12/18/92, effective 1/18/93. Statutory Authority: RCW 90.58.120 and 90.58.200. 86-16-003 (Order DE 86-19), § 173-19-1404, filed 7/24/86. Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-1404, filed 1/30/80.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-1405 Washougal, city of. [Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-1405, filed 1/30/80.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-150 Columbia County. [Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-150, filed 1/30/80; 79-09-001 (Order DE 79-6), § 173-19-150, filed 8/2/79; Order DE 76-15, § 173-19-150, filed 5/3/76; Order 74-23, § 173-19-150, filed 12/30/74.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-1501 Dayton, city of. [Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-1501, filed 1/30/80.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-1502 Starbuck, town of. [Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-1502, filed 1/30/80.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-160 Cowlitz County. [Statutory Authority: RCW 90.58.120 and 90.58.200. 82-11-105 (Order DE 82-10), § 173-19-160, filed 5/19/82; 82-05-017 (Order DE 81-53), § 173-19-160, filed 2/9/82. Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-160, filed 1/30/80; 79-09-001 (Order DE 79-6), § 173-19-160, filed 8/2/79; Order DE 77-16, § 173-19-160, filed 9/9/77; Order DE 74-23, § 173-19-160, filed 12/30/74.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-1601 Castle Rock, city of. [Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-1601, filed 1/30/80.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-1602 Kalama, city of. [Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-1602, filed 1/30/80.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-1603 Kelso, city of. [Statutory Authority: RCW 90.58.120 and 90.58.200. 80-04-026 (Order DE 80-10), § 173-19-1603, filed 3/18/80. Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-1603, filed 1/30/80.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-1604 Longview, city of. [Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-1604, filed 1/30/80.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-1605 Woodland, city of. [Statutory Authority: RCW 90.58.120 and 90.58.200. 80-04-026 (Order DE 80-10), § 173-19-1605, filed 3/18/80. Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-1605, filed 1/30/80.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-170 Douglas County. [Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-170, filed 1/30/80; 79-09-001 (Order DE 79-6), § 173-19-170, filed 8/2/79; Order DE 75-21, § 173-19-170, filed 8/12/75; Order DE 74-23, § 173-19-170, filed 12/30/74.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-1701 Bridgeport, town of. [Statutory Authority: RCW 90.58.200. 92-03-132 (Order 91-50), § 173-19-1701, filed 1/21/92, effective 2/21/92. Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-1701, filed 1/30/80.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-1702 East Wenatchee, city of. [Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-1702, filed 1/30/80.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-1703 Rock Island, town of. [Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-1703, filed 1/30/80.]

Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-180 Ferry County. [Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-180, filed 1/30/80; 79-09-001 (Order DE 79-6), § 173-19-180, filed 8/2/79; Order DE 76-15, § 173-19-180, filed 5/3/76; Order DE 74-23, § 173-19-180, filed 12/30/74.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-1801 Republic, town of. [Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-1801, filed 1/30/80.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-190 Franklin County. [Statutory Authority: RCW 90.58.120 and 90.58.200. 83-17-032 (Order DE 83-18), § 173-19-190, filed 8/11/83. Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-190, filed 1/30/80; 79-09-001 (Order DE 79-6), § 173-19-190, filed 8/2/79; Order DE 76-15, § 173-19-190, filed 5/3/76; Order DE 74-23, § 173-19-190, filed 12/30/74.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-1901 Pasco, city of. [Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-1901, filed 1/30/80.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-200 Garfield County. [Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 79-09-001 (Order DE 79-6), § 173-19-200, filed 8/2/79; Order DE 74-23, § 173-19-200, filed 12/30/74.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-210 Grant County. [Statutory Authority: RCW 90.58.120 and 90.58.200. 88-22-088 (Order 88-31), § 173-19-210, filed 11/2/88; 81-13-055 (Order DE 81-14), § 173-19-210, filed 6/17/81; Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-210, filed 1/30/80; 79-09-001 (Order DE 79-6), § 173-19-210, filed 8/2/79; Order DE 76-15, § 173-19-210, filed 5/3/76; Order DE 74-23, § 173-19-210, filed 12/30/74.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-2101 Krupp, town of. [Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-2101, filed 1/30/80.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-2102 Moses Lake, city of. [Statutory Authority: RCW 90.58.120 and 90.58.200. 82-17-046 (Order DE 82-29), § 173-19-2102, filed 8/16/82; 81-16-079 (Order DE 81-20), § 173-19-2102, filed 8/5/81. Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-2102, filed 1/30/80.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-2103 Soap Lake, city of. [Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-2103, filed 1/30/80.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-2104 Wilson Creek, town of. [Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-2104, filed 1/30/80.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-220 Grays Harbor County. [Statutory Authority: RCW 90.58.200. 91-18-081 (Order 91-31), § 173-19-220, filed 9/4/91, effective 10/5/91; 90-13-079 (Order 89-64), § 173-19-220, filed 6/19/90, effective 7/20/90; 90-11-072 (Order 90-04), § 173-19-220, filed 5/16/90, effective 6/16/90. Statutory Authority: RCW 90.58.120 and 90.58.200. 88-19-008 (Order DE 88-52), § 173-19-220, filed 9/8/88; 88-08-089 (Order DE 88-02), § 173-19-220, filed 4/6/88; 87-18-023 (Order DE 87-25), § 173-19-220, filed 8/26/87; 86-12-071 (Order DE 86-11), § 173-19-220, filed 6/4/86; 80-07-007 (Order DE 80-26), § 173-19-220, filed 6/6/80. Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-220, filed 1/30/80; 79-09-001 (Order DE 79-6), § 173-19-220, filed 8/2/79; Order DE 77-16, § 173-19-220, filed 9/9/77; Order DE 75-21, § 173-19-220, filed 8/12/75; Order DE 74-23, § 173-19-220, filed 12/30/74.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-2201 Aberdeen, city of. [Statutory Authority: RCW 90.58.120 and 90.58.200. 88-19-008 (Order DE 88-52), § 173-19-2201, filed 9/8/88. Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-2201, filed 1/30/80.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-2202 Cosmopolis, city of. [Statutory Authority: RCW 90.58.120 and 90.58.200. 88-19-008 (Order DE 88-52), § 173-19-2202, filed 9/8/88. Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-2202, filed 1/30/80.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-2203 Elma, city of. [Statutory Authority: RCW 90.58.120 and 90.58.200. 83-02-003 (Order DE 82-40), § 173-19-2203, filed 12/23/82. Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-2203, filed 1/30/80.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-2204 Hoquiam, city of. [Statutory Authority: RCW 90.58.120 and 90.58.200. 88-19-008 (Order DE 88-52), § 173-19-2204, filed 9/8/88; 85-10-030 (Order 85-06), § 173-19-2204, filed 4/24/85; 80-10-017 (Order DE 80-30), § 173-19-2204, filed 7/31/80. Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-2204, filed 1/30/80.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-2205 Montesano, city of. [Statutory Authority: RCW 90.58.200. 93-17-063 (Order 93-12), § 173-19-2205, filed 8/17/93, effective 9/17/93. Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-2205, filed 1/30/80.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-2206 Oakville, city of. [Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-2206, filed 1/30/80.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-2207 Ocean Shores, city of. [Statutory Authority: RCW 90.58.200. 91-12-053 (Order 91-05), § 173-19-2207, filed 6/5/91, effective 7/6/91. Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-2207, filed 1/30/80.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-2208 Westport, city of. [Statutory Authority: RCW 90.58.120 and 90.58.200. 88-19-008 (Order DE 88-52), § 173-19-2208, filed 9/8/88; 83-21-019 (Order DE 83-24), § 173-19-2208, filed 10/7/83. Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-2208, filed 1/30/80.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-230 Island County. [Statutory Authority: RCW 90.58.200. 92-09-135 (Order 92-10), § 173-19-230, filed 4/21/92, effective 5/22/92; 91-03-145 (Order 90-43), § 173-19-230, filed 1/23/91, effective 2/23/91. Statutory Authority: RCW 90.58.120 and 90.58.200. 85-12-051 (Order 85-12), § 173-19-230, filed 6/5/85. Statutory Authority:

RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-230, filed 1/30/80; 79-09-001 (Order DE 79-6), § 173-19-230, filed 8/2/79; Order DE 77-16, § 173-19-230, filed 9/9/77; Order DE 74-23, § 173-19-230, filed 12/30/74.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-2301 Coupeville, town of. [Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-2301, filed 1/30/80.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-2302 Langley, city of. [Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-2302, filed 1/30/80.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-2303 Oak Harbor, city of. [Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-2303, filed 1/30/80.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-240 Jefferson County. [Statutory Authority: RCW 90.58.200. 93-17-062 (Order 93-13), § 173-19-240, filed 8/17/93, effective 9/17/93. Statutory Authority: RCW 90.58.120 and 90.58.200. 89-08-012 and 90-07-027 (Order DE 88-56 and DE 88-56A), § 173-19-240, filed 3/24/89 and 3/14/90, effective 4/14/90. Statutory Authority: RCW 90.58.030, 90.58.120 and 90.58.200. 85-09-043 (Order DE 85-05), § 173-19-240, filed 4/15/85. Statutory Authority: RCW 90.58.120 and 90.58.200. 83-14-086 (Order DE 83-20), § 173-19-240, filed 7/6/83; 82-17-047 (Order DE 82-30), § 173-19-240, filed 8/16/82. Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-240, filed 1/30/80; 79-09-001 (Order DE 79-6), § 173-19-240, filed 8/2/79; Order DE 75-21, § 173-19-240, filed 8/12/75; Order DE 74-23, § 173-19-240, filed 12/30/74.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-2401 Port Townsend, city of. [Statutory Authority: RCW 90.58.200. 94-07-013 (Order 93-38), § 173-19-2401, filed 3/7/94, effective 4/7/94; 93-17-062 (Order 93-13), § 173-19-2401, filed 8/17/93, effective 9/17/93; 93-07-116 (Order 92-60), § 173-19-2401, filed 3/24/93, effective 4/24/93. Statutory Authority: RCW 90.58.120 and 90.58.200. 89-08-035 and 90-07-027 (Order DE 88-56 and DE 88-56A), § 173-19-2401, filed 3/31/89 and 3/14/90, effective 4/14/90. Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-2401, filed 1/30/80.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-250 King County. [Statutory Authority: Chapter 90.58 RCW. 95-20-046 (Order 95-01), § 173-19-250, filed 9/29/95, effective 10/30/95. Statutory Authority: RCW 90.58.200. 91-03-149 (Order 90-52), § 173-19-250, filed 1/23/91, effective 2/23/91. Statutory Authority: RCW 90.58.120 and 90.58.200. 85-13-054 (Order 85-17), § 173-19-250, filed 6/18/85; 84-07-025 (Order DE 84-6), § 173-19-250, filed 3/15/84; 82-05-018 (Order DE 81-54), § 173-19-250, filed 2/9/82; 81-20-006 (Order DE 81-24), § 173-19-250, filed 9/24/81. Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-250, filed 1/30/80; 79-09-131 (Order DE 79-16), § 173-19-250, filed 9/5/79; 79-09-001 (Order DE 79-6), § 173-19-250, filed 8/2/79; Order DE 77-28, § 173-19-250, filed 10/24/77; Order DE 77-16, § 173-19-250, filed 9/9/77; Order DE 76-15, § 173-19-250, filed 5/3/76; Order DE 75-21, § 173-19-250, filed 8/12/75; Order DE 74-23, § 173-19-250, filed 12/30/74.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-2501 Auburn, city of. [Statutory Authority: RCW 90.58.120 and 90.58.200. 85-13-054 (Order 85-17), § 173-19-2501, filed 6/18/85. Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-2501, filed 1/30/80.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-2502 Beaux Arts Village, town of. [Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-2502, filed 1/30/80.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-2503 Bellevue, city of. [Statutory Authority: RCW 90.58.200. 92-13-080 (Order 92-14), § 173-19-2503, filed 6/16/92, effective 7/17/92. Statutory Authority: RCW 90.58.120 and 90.58.200. 89-20-016 (Order DE 89-21), § 173-19-2503, filed 9/27/89, effective 10/28/89; 83-07-080 (Order DE 83-3), § 173-19-2503, filed 3/23/83; 81-11-027 (Order DE 81-10), § 173-19-2503, filed 5/15/81. Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-2503, filed 1/30/80.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-2504 Black Diamond, city of. [Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-2504, filed 1/30/80.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-2505 Bothell, city of. [Statutory Authority: RCW 90.58.200. 90-06-067 (Order 89-59), § 173-19-2505, filed 3/6/90, effective 4/6/90. Statutory Authority: RCW 90.58.120 and 90.58.200. 84-24-075 (Order 84-40), § 173-19-2505, filed 12/5/84; 83-07-019 (Order DE 83-9), § 173-19-2505, filed 3/11/83. Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-2505, filed 1/30/80.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-2506 Carnation, town of. [Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-2506, filed 1/30/80.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-2507 Des Moines, city of. [Statutory Authority: RCW 90.58.120 and 90.58.200. 88-07-008 (Order 87-49), § 173-19-2507, filed 3/3/88. Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-2507, filed 1/30/80.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-2508 Duvall, city of. [Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-2508, filed 1/30/80.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-2509 Hunts Point, town of. [Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-2509, filed 1/30/80.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-2510 Issaquah, city of. [Statutory Authority: RCW 90.58.200. 90-20-108 (Order 90-28), § 173-19-2510, filed 10/2/90, effective 11/2/90. Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-2510, filed 1/30/80.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-2511 Kent, city of. [Statutory Authority: RCW 90.58.200. 92-13-082 (Order 92-16), § 173-19-2511, filed 6/16/92, effective 7/17/92. Statutory Authority: RCW 90.58.030, 90.58.120 and 90.58.200. 85-09-043 (Order DE 85-05), § 173-19-2511, filed 4/15/85. Statutory Authority: RCW 90.58.120 and 90.58.200. 81-01-039 (Order DE 80-48), § 173-19-2511, filed 12/11/80. Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-

2511, filed 1/30/80.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-2512 Kirkland, city of. [Statutory Authority: RCW 90.58.200. 90-02-106 (Order 89-54), § 173-19-2512, filed 1/3/90, effective 2/3/90. Statutory Authority: RCW 90.58.120 and 90.58.200. 89-03-009 (Order DE 88-35), § 173-19-2512, filed 1/6/89; 86-12-070 (Order DE 86-09), § 173-19-2512, filed 6/4/86. Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-2512, filed 1/30/80.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-2513 Lake Forest Park, city of. [Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-2513, filed 1/30/80.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-2514 Medina, city of. [Statutory Authority: RCW 90.58.200. 91-01-131 (Order 90-45), § 173-19-2514, filed 12/19/90, effective 1/19/91. Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-2514, filed 1/30/80.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-2515 Mercer Island, city of. [Statutory Authority: RCW 90.58.200. 92-11-044 (Order 92-01), § 173-19-2515, filed 5/19/92, effective 6/19/92. Statutory Authority: RCW 90.58.120 and 90.58.200. 89-03-011 (Order DE 88-49), § 173-19-2515, filed 1/6/89; 87-19-085 (Order DE 87-23), § 173-19-2515, filed 9/16/87; 85-13-054 (Order 85-17), § 173-19-2515, filed 6/18/85; 81-11-028 (Order DE 81-11), § 173-19-2515, filed 5/15/81. Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-2515, filed 1/30/80.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-2516 Normandy Park, city of. [Statutory Authority: RCW 90.58.200. 92-01-096 (Order 91-42), § 173-19-2516, filed 12/17/91, effective 1/17/92. Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-2516, filed 1/30/80.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-2517 North Bend, city of. [Statutory Authority: RCW 90.58.200. 90-14-090 (Order 90-15), § 173-19-2517, filed 7/3/90, effective 8/3/90. Statutory Authority: RCW 90.58.120 and 90.58.200. 87-24-068 (Order DE 87-43), § 173-19-2517, filed 12/1/87. Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-2517, filed 1/30/80.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-2518 Pacific, city of. [Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-2518, filed 1/30/80.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-2519 Redmond, city of. [Statutory Authority: Chapter 90.58 RCW. 95-17-039 (Order 95-07), § 173-19-2519, filed 8/10/95, effective 9/10/95. Statutory Authority: RCW 90.58.200. 90-02-101 (Order 89-58), § 173-19-2519, filed 1/3/90, effective 2/3/90. Statutory Authority: RCW 90.58.120 and 90.58.200. 86-21-110 (Order DE 86-27), § 173-19-2519, filed 10/20/86; 82-01-048 (Order DE 81-42), § 173-19-2519, filed 12/16/81. Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-2519, filed 1/30/80.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-2520 Renton, city of. [Statutory Authority: Chapter 90.58 RCW. 94-23-013 (Order 94-27), § 173-19-2520, filed 11/4/94, effective 12/5/94. Statutory Authority: RCW 90.58.200. 90-17-127 (Order 90-08), § 173-19-2520, filed 8/22/90, effective 9/22/90. Statutory Authority: RCW 90.58.120 and 90.58.200. 84-19-039 (Order DE 84-28), § 173-19-2520, filed 9/14/84. Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-2520, filed 1/30/80.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-2521 Seattle, city of. [Statutory Authority: Chapter 90.58 RCW. 95-16-024 (Order 95-08), § 173-19-2521, filed 7/21/95, effective 8/21/95; 94-22-017 (Order 94-24), § 173-19-2521, filed 10/21/94, effective 11/21/94. Statutory Authority: RCW 90.58.200. 93-12-011, § 173-19-2521, filed 5/20/93, effective 6/20/93; 93-04-106 (Order 92-48), § 173-19-2521, filed 2/3/93, effective 3/6/93; 92-19-090 (Order 92-15), § 173-19-2521, filed 9/16/92, effective 10/17/92; 90-20-111 (Order 90-35), § 173-19-2521, filed 10/2/90, effective 11/2/90. Statutory Authority: RCW 90.58.120 and 90.58.200. 87-24-067 (Order DE 87-24), § 173-19-2521, filed 12/1/87; 87-05-015 (Order DE 86-41), § 173-19-2521, filed 2/11/87; 86-21-109 (Order DE 86-28), § 173-19-2521, filed 10/20/86; 85-20-094 (Order DE 85-21), § 173-19-2521, filed 10/1/85; 83-21-094 (Order DE 83-27), § 173-19-2521, filed 10/19/83; 83-15-014 (Order DE 83-19), § 173-19-2521, filed 7/12/83; 83-13-029 (Order DE 83-4), § 173-19-2521, filed 6/7/83; 83-07-081 (Order DE 83-4), § 173-19-2521, filed 3/23/83; 82-02-079 (Order DE 81-44), § 173-19-2521, filed 1/6/82; 81-20-043 (Order DE 81-28), § 173-19-2521, filed 10/1/81; 81-11-029 (Order DE 81-12), § 173-19-2521, filed 5/15/81; 81-06-051 (Order DE 81-2), § 173-19-2521, filed 2/27/81; 80-13-031 (Order DE 80-34), § 173-19-2521, filed 9/10/80. Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-2521, filed 1/30/80.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-2522 Skykomish, town of. [Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-2522, filed 1/30/80.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-2523 Snoqualmie, city of. [Statutory Authority: RCW 90.58.200. 92-17-073 (Order 92-22), § 173-19-2523, filed 8/19/92, effective 9/19/92. Statutory Authority: RCW 90.58.120 and 90.58.200. 87-01-060 (Order 86-35), § 173-19-2523, filed 12/16/86. Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-2523, filed 1/30/80.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-2524 Tukwila, city of. [Statutory Authority: RCW 90.58.120 and 90.58.200. 82-11-106 (Order DE 82-11), § 173-19-2524, filed 5/19/82. Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-2524, filed 1/30/80.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-2525 Yarrow Point, town of. [Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-2525, filed 1/30/80.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-260 Kitsap County. [Statutory Authority: RCW 90.58.120 and 90.58.200. 85-10-014 (Order 85-03.5), § 173-19-260, filed 4/19/85; 84-08-042 (Order DE 84-5), § 173-19-260, filed 4/2/84; 83-08-002 (Order DE 83-11), § 173-19-260, filed 3/24/83; 82-01-087 (Order DE 81-35), § 173-19-260, filed 12/22/81. Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-260, filed 1/30/80; 79-09-001 (Order DE 79-6), § 173-19-260, filed 8/2/79; Order DE 77-16, § 173-19-260, filed 9/9/77; Order DE 76-15, § 173-19-260, filed 5/3/76; Order DE 74-23, § 173-19-260, filed 12/30/74.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-2601 Bremerton, city of. [Statutory Authority: RCW 90.58.200. 92-04-081 (Order 91-51), § 173-19-2601, filed 2/5/92, effective 3/7/92. Statutory Authority: RCW 90.58.120 and 90.58.200. 88-22-089 (Order 88-

32), § 173-19-2601, filed 11/2/88; 82-07-003 (Order DE 82-2), § 173-19-2601, filed 3/4/82; 82-03-042 (Order DE 81-45), § 173-19-2601, filed 1/19/82. Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-2601, filed 1/30/80.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-2602 Port Orchard, city of. [Statutory Authority: RCW 90.58.200. 94-10-082 (Order 94-08), § 173-19-2602, filed 5/4/94, effective 6/4/94; 92-13-084 (Order 92-02), § 173-19-2602, filed 6/16/92, effective 7/17/92. Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-2602, filed 1/30/80.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-2603 Poulsbo, city of. [Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-2603, filed 1/30/80.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-2604 Winslow, city of. [Statutory Authority: RCW 90.58.120 and 90.58.200. 81-13-015 (Order DE 81-16), § 173-19-2604, filed 6/11/81. Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-2604, filed 1/30/80.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-270 Kittitas County. [Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-270, filed 1/30/80; 79-11-053 (Order DE 79-28), § 173-19-270, filed 10/16/79; 79-09-001 (Order DE 79-6), § 173-19-270, filed 8/2/79; Order DE 77-16, § 173-19-270, filed 9/9/77; Order DE 76-15, § 173-19-270, filed 5/3/76; Order DE 74-23, § 173-19-270, filed 12/30/74.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-2701 Cle Elum, city of. [Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-2701, filed 1/30/80.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-2702 Ellensburg, city of. [Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-2702, filed 1/30/80.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-2703 South Cle Elum, town of. [Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-2703, filed 1/30/80.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-280 Klickitat County. [Statutory Authority: RCW 90.58.200. 91-22-021 (Order 91-39), § 173-19-280, filed 10/29/91, effective 11/29/91; 90-14-091 (Order 90-14), § 173-19-280, filed 7/3/90, effective 8/3/90. Statutory Authority: RCW 90.58.120 and 90.58.200. 84-06-043 (Order DE 83-40), § 173-19-280, filed 3/2/84. Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-280, filed 1/30/80; 79-09-001 (Order DE 79-6), § 173-19-280, filed 8/2/79; Order DE 76-15, § 173-19-280, filed 5/3/76; Order DE 74-23, § 173-19-280, filed 12/30/74.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-2801 Bingen, town of. [Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-2801, filed 1/30/80.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-2802 Goldendale, city of. [Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-2802, filed 1/30/80.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-2803 White Salmon, town of. [Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-2803, filed 1/30/80.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-290 Lewis County. [Statutory Authority: RCW 90.58.120 and 90.58.200. 80-15-023 (Order DE 80-40), § 173-19-290, filed 10/7/80. Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-290, filed 1/30/80; 79-09-001 (Order DE 79-6), § 173-19-290, filed 8/2/79; Order DE 77-16, § 173-19-290, filed 9/9/77; Order DE 74-23, § 173-19-290, filed 12/30/74.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-2901 Centralia, city of. [Statutory Authority: RCW 90.58.030, 90.58.120 and 90.58.200. 85-09-043 (Order DE 85-05), § 173-19-2901, filed 4/15/85. Statutory Authority: RCW 90.58.120 and 90.58.200. 82-17-048 (Order DE 82-31), § 173-19-2901, filed 8/16/82. Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-2901, filed 1/30/80.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-2902 Chehalis, city of. [Statutory Authority: RCW 90.58.120 and 90.58.200. 82-02-078 (Order DE 81-46), § 173-19-2902, filed 1/6/82. Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-2902, filed 1/30/80.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-2903 Morton, city of. [Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-2903, filed 1/30/80.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-2904 Pe Ell, town of. [Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-2904, filed 1/30/80.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-2905 Toledo, city of. [Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-2905, filed 1/30/80.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-2906 Vader, city of. [Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-2906, filed 1/30/80.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-2907 Winlock, city of. [Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-2907, filed 1/30/80.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-300 Lincoln County. [Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-300, filed 1/30/80; 79-09-001 (Order DE 79-6), § 173-19-300, filed 8/2/79; Order DE 77-16, § 173-19-300, filed 9/9/77; Order DE 74-23, § 173-19-300, filed 12/30/74.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-3001 Odessa, town of. [Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-3001, filed 1/30/80.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-3002 Sprague, city of. [Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-3002, filed 1/30/80.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96.

Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-310 Mason County. [Statutory Authority: RCW 90.58.120 and 90.58.200. 88-07-010 (Order 88-01), § 173-19-310, filed 3/3/88; 84-22-055 (Order 84-29), § 173-19-310, filed 11/7/84; 82-14-017 (Order DE 82-18), § 173-19-310, filed 6/28/82. Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-05-053 (Order DE 80-12), § 173-19-310, filed 4/16/80; 80-02-123 (Order DE 79-34), § 173-19-310, filed 1/30/80; 79-09-001 (Order DE 79-6), § 173-19-310, filed 8/2/79; Order DE 76-15, § 173-19-310, filed 5/3/76; Order DE 75-21, § 173-19-310, filed 8/12/75; Order DE 74-23, § 173-19-310, filed 12/30/74.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-3101 Shelton, city of. [Statutory Authority: Chapter 90.58 RCW. 95-10-051 (Order 94-29), § 173-19-3101, filed 5/2/95, effective 6/2/95. Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-3101, filed 1/30/80.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-320 Okanogan County. [Statutory Authority: RCW 90.58.120 and 90.58.200. 87-20-051 (Order DE 87-33), § 173-19-320, filed 10/2/87. Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-320, filed 1/30/80; 79-09-001 (Order DE 79-6), § 173-19-320, filed 8/2/79; Order DE 76-15, § 173-19-320, filed 5/3/76; Order DE 74-23, § 173-19-320, filed 12/30/74.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-3201 Brewster, town of. [Statutory Authority: RCW 90.58.200. 93-22-064 and 93-22-098 (Orders 93-17 and 93-17A), § 173-19-3201, filed 10/29/93 and 11/3/93, effective 11/29/93 and 12/4/93. Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-3201, filed 1/30/80.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-3202 Conconully, town of. [Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-3202, filed 1/30/80.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-3203 Okanogan, city of. [Statutory Authority: RCW 90.58.200. 91-03-147 (Order 90-50), § 173-19-3203, filed 1/23/91, effective 2/23/91. Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-3203, filed 1/30/80.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-3204 Omak, city of. [Statutory Authority: RCW 90.58.200. 91-22-023 (Order 91-41), § 173-19-3204, filed 10/29/91, effective 11/29/91. Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-3204, filed 1/30/80.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-3205 Oroville, town of. [Statutory Authority: RCW 90.58.200. 91-03-146 (Order 90-49), § 173-19-3205, filed 1/23/91, effective 2/23/91. Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-3205, filed 1/30/80.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-3206 Pateros, town of. [Statutory Authority: RCW 90.58.200. 92-01-097 (Order 91-49), § 173-19-3206, filed 12/17/91, effective 1/17/92. Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-3206, filed 1/30/80.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-3207 Riverside, town of. [Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-3207, filed 1/30/80.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-3208 Tonasket, town of. [Statutory Authority: RCW 90.58.200. 91-03-148 (Order 90-51), § 173-19-3208, filed 1/23/91, effective 2/23/91. Statutory Authority: RCW 90.58.120 and 90.58.200. 82-17-049 (Order DE 82-32), § 173-19-3208, filed 8/16/82. Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-3208, filed 1/30/80.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-3209 Twisp, town of. [Statutory Authority: RCW 90.58.200. 91-04-070 (Order 90-47), § 173-19-3209, filed 2/5/91, effective 3/8/91. Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-3209, filed 1/30/80.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-3210 Winthrop, town of. [Statutory Authority: RCW 90.58.200. 91-04-071 (Order 90-48), § 173-19-3210, filed 2/5/91, effective 3/8/91. Statutory Authority: RCW 90.58.120 and 90.58.200. 86-19-048 (Order DE 86-22), § 173-19-3210, filed 9/12/86; 85-08-016 (Order 85-08), § 173-19-3210, filed 3/28/85. Statutory Authority: RCW 90.58.120, 90.58.200 and chapter 90.58 RCW. 85-04-039 (Order 84-46), § 173-19-3210, filed 2/1/85. Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 81-24-074 (Order DE 81-36), § 173-19-3210, filed 12/2/81; 80-02-123 (Order DE 79-34), § 173-19-3210, filed 1/30/80.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-330 Pacific County. [Statutory Authority: RCW 90.58.120 and 90.58.200. 86-18-052 (Order DE 86-15), § 173-19-330, filed 9/2/86; 84-20-041 (Order 84-32), § 173-19-330, filed 9/27/84; 82-07-045 (Order DE 81-55), § 173-19-330, filed 3/18/82. Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-08-054 (Order DE 80-25), § 173-19-330, filed 6/30/80; 80-02-123 (Order DE 79-34), § 173-19-330, filed 1/30/80; 79-09-001 (Order DE 79-6), § 173-19-330, filed 8/2/79; Order DE 75-21, § 173-19-330, filed 8/12/75; Order DE 74-23, § 173-19-330, filed 12/30/74.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-3301 Ilwaco, town of. [Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-3301, filed 1/30/80.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-3302 Long Beach, town of. [Statutory Authority: RCW 90.58.120 and 90.58.200. 88-02-064 (DE 87-47), § 173-19-3302, filed 1/6/88. Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-3302, filed 1/30/80.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-3303 Raymond, city of. [Statutory Authority: RCW 90.58.200. 94-13-046 (Order 94-09), § 173-19-3303, filed 6/7/94, effective 7/8/94. Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-3303, filed 1/30/80.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-3304 South Bend, city of. [Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-3304, filed 1/30/80.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-340 Pend Oreille County. [Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-340, filed 1/30/80; 79-09-001 (Order DE 79-6), § 173-19-340, filed 8/2/79; Order DE 75-21, § 173-19-340, filed 8/12/75; Order DE 74-23, § 173-19-340, filed 12/30/74.] Repealed by 96-20-

075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-3401 Cusick, town of. [Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-3401, filed 1/30/80.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-3402 Ione, town of. [Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-3402, filed 1/30/80.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-3403 Metaline, town of. [Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-3403, filed 1/30/80.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-3404 Metaline Falls, town of. [Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-3404, filed 1/30/80.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-3405 Newport, city of. [Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-3405, filed 1/30/80.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-350 Pierce County. [Statutory Authority: RCW 90.58.200. 93-02-048 (Order 92-49), § 173-19-350, filed 1/5/93, effective 2/5/93; 91-12-052 (Order 91-04), § 173-19-350, filed 6/5/91, effective 7/6/91. Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-350, filed 1/30/80; 79-11-019 (Order DE 79-19), § 173-19-350, filed 10/9/79; 79-09-131 (Order DE 79-16), § 173-19-350, filed 9/5/79; 79-09-129 (Order DE 79-27), § 173-19-350, filed 9/5/79; 79-09-001 (Order DE 79-6), § 173-19-350, filed 8/2/79; Order DE 77-16, § 173-19-350, filed 9/9/77; Order DE 76-15, § 173-19-350, filed 5/3/76; Order DE 75-21, § 173-19-350, filed 8/12/75; Order DE 74-23, § 173-19-350, filed 12/30/74.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-3501 Bonney Lake, city of. [Statutory Authority: RCW 90.58.120 and 90.58.200. 88-10-059 (Order DE 88-07), § 173-19-3501, filed 5/4/88. Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-3501, filed 1/30/80.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-3502 Buckley, city of. [Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-3502, filed 1/30/80.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-3503 Dupont, city of. [Statutory Authority: RCW 90.58.200. 93-08-026 (Order 92-50), § 173-19-3503, filed 3/30/93, effective 4/30/93; 89-22-138 (Order 89-41), § 173-19-3503, filed 11/1/89, effective 12/2/89. Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-3503, filed 1/30/80.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-3504 Eatonville, town of. [Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-3504, filed 1/30/80.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-3505 Fife, city of. [Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-3505, filed 1/30/80.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-3506 Gig Harbor, city of. [Statutory Authority: RCW 90.58.200. 94-14-029 (Order 94-14), § 173-19-3506, filed 6/28/94, effective 7/29/94. Statutory Authority: RCW 90.58.120 and 90.58.200. 81-01-038 (Order DE 80-50), § 173-19-3506, filed 12/11/80. Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-3506, filed 1/30/80.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-3507 Orting, city of. [Statutory Authority: RCW 90.58.200. 95-08-042 (Order 94-26), § 173-19-3507, filed 3/31/95, effective 5/1/95. Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-3507, filed 1/30/80.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-3508 Puyallup, city of. [Statutory Authority: RCW 90.58.120 and 90.58.200. 87-08-001 (Order DE 86-42), § 173-19-3508, filed 3/20/87; 83-12-017 (Order DE 83-15), § 173-19-3508, filed 5/24/83. Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-3508, filed 1/30/80.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-3509 Roy, city of. [Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-3509, filed 1/30/80.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-3510 Ruston, town of. [Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-3510, filed 1/30/80.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-3511 South Prairie, town of. [Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-3511, filed 1/30/80.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-3512 Steilacoom, town of. [Statutory Authority: RCW 90.58.120 and 90.58.200. 88-07-007 (Order 87-48), § 173-19-3512, filed 3/3/88. Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-3512, filed 1/30/80.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-3513 Sumner, city of. [Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-3513, filed 1/30/80.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-3514 Tacoma, city of. [Statutory Authority: RCW 90.58.200. 95-11-008 (Order 94-25), § 173-19-3514, filed 5/5/95, effective 6/5/95; 93-01-110 (Order 92-44), § 173-19-3514, filed 12/18/92, effective 1/18/93; 90-11-072 (Order 90-05), § 173-19-3514, filed 5/16/90, effective 6/16/90. Statutory Authority: RCW 90.58.120 and 90.58.200. 87-19-111 (Order DE 87-34), § 173-19-3514, filed 9/18/87; 86-16-004 (Order DE 86-18), § 173-19-3514, filed 7/24/86; 85-10-013 (Order 85-03), § 173-19-3514, filed 4/19/85; 84-11-015 (Order DE 84-16), § 173-19-3514, filed 5/9/84; 84-06-043 (Order DE 83-40), § 173-19-3514, filed 3/2/84; 83-12-018 (Order DE 83-16), § 173-19-3514, filed 5/24/83; 82-10-002 (Order DE 82-06), § 173-19-3514, filed 4/23/82; 81-24-072 (Order DE 81-37), § 173-19-3514, filed 12/2/81; 81-08-005 (Order DE 81-4), § 173-19-3514, filed 3/19/81; 80-04-026 (Order DE 80-10), § 173-19-3514, filed 3/18/80. Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-3514, filed 1/30/80.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-3515 Wilkeson, town of. [Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-3515, filed 1/30/80.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-360 San Juan County. [Statutory Authority: Chapter 90.58 RCW. 95-18-102, § 173-19-360, filed 9/6/95 effective 10/7/95; 95-07-125 (Order 94-41), § 173-19-360, filed 3/22/95, effective 4/22/95. Statutory Authority: RCW 90.58.200. 94-14-030 (Order 94-16), § 173-19-360, filed 6/28/94, effective 7/29/94; 93-01-138 (Order 92-40), § 173-19-360, filed 12/22/92, effective 1/22/93; 92-17-074 (Order 92-31), § 173-19-360, filed 8/19/92, effective 9/19/92; 91-12-054 (Order 91-18), § 173-19-360, filed 6/5/91, effective 7/6/91; 91-04-072 (Order 90-59), § 173-19-360, filed 2/5/91, effective 3/8/91; 90-11-072 and 90-13-089 (Order 90-03 and 90-03A), § 173-19-360, filed 5/16/90 and 6/20/90, effective 6/16/90 and 7/21/90. Statutory Authority: RCW 90.58.120 and 90.58.200. 89-09-077 and 90-07-026 (Order DE 88-22 and DE 88-22A), § 173-19-360, filed 4/19/89 and 3/14/90, effective 4/14/90; 84-22-016 (Order DE 84-36), § 173-19-360, filed 10/31/84; 81-09-057 (Order DE 81-8), § 173-19-360, filed 4/17/81. Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-360, filed 1/30/80; 79-09-001 (Order DE 79-6), § 173-19-360, filed 8/2/79; Order DE 77-16, § 173-19-360, filed 9/9/77; Order DE 74-23, § 173-19-360, filed 12/30/74.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-3601 Friday Harbor, town of. [Statutory Authority: RCW 90.58.200. 90-11-072 (Order 90-09), § 173-19-3601, filed 5/16/90, effective 6/16/90. Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-3601, filed 1/30/80.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-370 Skagit County. [Statutory Authority: Chapter 90.58 RCW. 95-12-026 (Order 94-42), § 173-19-370, filed 5/31/95, effective 7/1/95. Statutory Authority: RCW 90.58.120 and 90.58.200. 87-22-100 (Order DE 87-39), § 173-19-370, filed 11/4/87; 84-08-003 (Order DE 84-10), § 173-19-370, filed 3/22/84; 83-07-082 (Order DE 83-5), § 173-19-370, filed 3/23/83; 82-18-027 (Order DE 82-33), § 173-19-370, filed 8/25/82; 81-24-075 (Order DE 81-38), § 173-19-370, filed 12/2/81; 81-20-004 (Order DE 81-25), § 173-19-370, filed 9/24/81; 81-01-040 (Order DE 80-51), § 173-19-370, filed 12/11/80; 80-13-030 (Order DE 80-35), § 173-19-370, filed 9/10/80. Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-05-053 (Order DE 80-12), § 173-19-370, filed 4/16/80; 80-02-123 (Order DE 79-34), § 173-19-370, filed 1/30/80; 79-09-131 (Order DE 79-16), § 173-19-370, filed 9/5/79; 79-09-001 (Order DE 79-6), § 173-19-370, filed 8/2/79; Order DE 77-16, § 173-19-370, filed 9/9/77; Order DE 74-23, § 173-19-370, filed 12/30/74.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-3701 Anacortes, city of. [Statutory Authority: RCW 90.58.120 and 90.58.200. 86-07-049 (Order 85-29), § 173-19-3701, filed 3/18/86. Statutory Authority: RCW 90.58.030, 90.58.120 and 90.58.200. 85-09-043 (Order DE 85-05), § 173-19-3701, filed 4/15/85. Statutory Authority: RCW 90.58.120 and 90.58.200. 83-23-062 (Order DE 83-28), § 173-19-3701, filed 11/16/83; 83-02-004 (Order DE 82-43), § 173-19-3701, filed 12/23/82; 81-15-006 (Order DE 81-15), § 173-19-3701, filed 7/2/81; 80-18-024 (Order DE 80-41), § 173-19-3701, filed 11/26/80. Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-3701, filed 1/30/80.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-3702 Concrete, town of. [Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-3702, filed 1/30/80.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-3703 Hamilton, town of. [Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-3703, filed 1/30/80.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-3704 La Conner, town of. [Statutory Authority: RCW 90.58.120 and 90.58.200. 82-14-089 (Order DE 82-24), § 173-19-3704, filed 7/7/82. Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-3704, filed 1/30/80.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-3705 Lyman, town of. [Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-3705, filed 1/30/80.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-3706 Mount Vernon, city of. [Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-3706, filed 1/30/80.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-3707 Burlington, city of. [Statutory Authority: RCW 90.58.120 and 90.58.200. 81-16-077 (Order DE 81-22), § 173-19-3707, filed 8/5/81.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-380 Skamania County. [Statutory Authority: RCW 90.58.120 and 90.58.200. 86-12-072 (Order DE 86-13), § 173-19-380, filed 6/4/86. Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-380, filed 1/30/80; 79-09-001 (Order DE 79-6), § 173-19-380, filed 8/2/79; Order DE 74-23, § 173-19-380, filed 12/30/74.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-3801 North Bonneville, city of. [Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-3801, filed 1/30/80.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-3802 Stevenson, town of. [Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-3802, filed 1/30/80.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-390 Snohomish County. [Statutory Authority: RCW 90.58.200 and Shoreline Management Act of 1971. 94-03-095 (Order 93-28), § 173-19-390, filed 1/19/94, effective 2/19/94. Statutory Authority: RCW 90.58.120 and 90.58.200. 90-07-025 (Order DE 88-55A), § 173-19-390, filed 3/14/90, effective 4/14/90; 89-14-130 (Order 89-18), § 173-19-390, filed 7/5/89, effective 8/5/89; 89-07-026 (Order DE 88-55), § 173-19-390, filed 3/8/89; 87-05-015 (Order DE 86-41), § 173-19-390, filed 2/11/87; 86-19-049 (Order DE 86-23), § 173-19-390, filed 9/12/86; 84-02-074 (Order DE 83-43), § 173-19-390, filed 1/4/84; 83-18-005 (Order DE 83-23), § 173-19-390, filed 8/26/83; 82-14-018 (Order DE 82-19), § 173-19-390, filed 6/28/82. Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-390, filed 1/30/80; 79-09-001 (Order DE 79-6), § 173-19-390, filed 8/2/79. Statutory Authority: RCW 90.58.020. 78-08-076 (Order DE 78-9), § 173-19-390, filed 7/26/78; Order DE 77-16, § 173-19-390, filed 9/9/77; Order DE 76-15, § 173-19-390, filed 5/3/76; Order DE 75-21, § 173-19-390, filed 8/12/75; Order DE 74-23, § 173-19-390, filed 12/30/74.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-3901 Arlington, city of. [Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-3901, filed 1/30/80.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96,

effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-3902 Brier, city of. [Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-3902, filed 1/30/80.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-3903 Edmonds, city of. [Statutory Authority: RCW 90.58.200. 93-13-020 (Order 93-01), § 173-19-3903, filed 6/9/93, effective 7/10/93. Statutory Authority: RCW 90.58.120 and 90.58.200. 86-12-070 (Order DE 86-09), § 173-19-3903, filed 6/4/86. Statutory Authority: RCW 90.58.030, 90.58.120 and 90.58.200. 85-09-043 (Order DE 85-05), § 173-19-3903, filed 4/15/85. Statutory Authority: RCW 90.58.120 and 90.58.200. 84-10-050 (Order DE 84-14), § 173-19-3903, filed 5/2/84; 80-06-050 (Order DE 80-13), § 173-19-3903, filed 5/14/80. Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-3903, filed 1/30/80.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-3904 Everett, city of. [Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-3904, filed 1/30/80.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-3905 Gold Bar, town of. [Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-3905, filed 1/30/80.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-3906 Granite Falls, town of. [Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-3906, filed 1/30/80.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-3907 Index, town of. [Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-3907, filed 1/30/80.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-3908 Lake Stevens, city of. [Statutory Authority: RCW 90.58.120 and 90.58.200. 84-02-075 (Order DE 83-44), § 173-19-3908, filed 1/4/84. Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-3908, filed 1/30/80.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-3909 Marysville, city of. [Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-3909, filed 1/30/80.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-3910 Monroe, city of. [Statutory Authority: RCW 90.58.200. 90-23-048 (Order 90-34), § 173-19-3910, filed 11/16/90, effective 12/17/90. Statutory Authority: RCW 90.58.120 and 90.58.200. 89-14-131 and 90-07-028 (Order 89-23 and 89-23A), § 173-19-3910, filed 7/5/89 and 3/14/90, effective 4/14/90; 82-06-013 (Order DE 81-56), § 173-19-3910, filed 2/22/82. Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-3910, filed 1/30/80.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-3911 Mountlake Terrace, city of. [Statutory Authority: RCW 90.58.200. 93-16-013 (Order 93-07), § 173-19-3911, filed 7/22/93, effective 8/22/93. Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-3911, filed 1/30/80.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-3912 Mukilteo, city of. [Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-3912, filed 1/30/80.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-3913 Snohomish, city of. [Statutory Authority: RCW 90.58.120 and 90.58.200. 80-06-050 (Order DE 80-13), § 173-19-3913, filed 5/14/80. Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-3913, filed 1/30/80.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-3914 Stanwood, city of. [Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-3914, filed 1/30/80.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-3915 Sultan, town of. [Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-3915, filed 1/30/80.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-3916 Woodway, town of. [Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-3916, filed 1/30/80.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-400 Spokane County. [Statutory Authority: RCW 90.58.120 and 90.58.200. 87-22-101 (Order DE 87-40), § 173-19-400, filed 11/4/87; 84-07-025 (Order DE 84-6), § 173-19-400, filed 3/15/84; 83-02-005 (Order DE 82-44), § 173-19-400, filed 12/23/82; 81-06-052 (Order DE 81-3), § 173-19-400, filed 2/27/81. Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-400, filed 1/30/80; 79-11-053 (Order DE 79-28), § 173-19-400, filed 10/16/79; 79-09-001 (Order DE 79-6), § 173-19-400, filed 8/2/79; Order DE 77-16, § 173-19-400, filed 9/9/77; Order DE 75-21, § 173-19-400, filed 8/12/75; Order DE 74-23, § 173-19-400, filed 12/30/74.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-4001 Latah, town of. [Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-4001, filed 1/30/80.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-4002 Medical Lake, town of. [Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-4002, filed 1/30/80.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-4003 Millwood, town of. [Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-4003, filed 1/30/80.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-4004 Rockford, town of. [Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-4004, filed 1/30/80.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-4005 Spokane, city of. [Statutory Authority: RCW 90.58.120 and 90.58.200. 83-07-083 (Order DE 83-6), § 173-19-4005, filed 3/23/83. Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-4005, filed 1/30/80.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-4006 Waverly, town of. [Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-4006, filed 1/30/80.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-410 Stevens County. [Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-410, filed 1/30/80; 79-09-001 (Order DE 79-6), § 173-19-410, filed 8/2/79; Order DE 74-23, § 173-19-410, filed 12/30/74.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-4101 Chewelah, city of. [Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-4101, filed 1/30/80.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-4102 Northport, town of. [Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-4102, filed 1/30/80.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-420 Thurston County. [Statutory Authority: Chapter 90.58 RCW. 95-16-048 (Order 94-39), § 173-19-420, filed 7/25/95, effective 8/25/95. Statutory Authority: RCW 90.58.200. 91-22-022 (Order 91-40), § 173-19-420, filed 10/29/91, effective 11/29/91; 90-11-072 (Order 89-63), § 173-19-420, filed 5/16/90, effective 6/16/90. Statutory Authority: RCW 90.58.120 and 90.58.200. 87-20-026 (Order DE 87-28), § 173-19-420, filed 9/30/87; 84-19-038 (Order DE 84-30), § 173-19-420, filed 9/14/84; 82-07-004 (Order DE 82-3), § 173-19-420, filed 3/4/82; 81-20-005 (Order DE 81-26), § 173-19-420, filed 9/24/81. Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-420, filed 1/30/80; 79-11-019 (Order DE 79-19), § 173-19-420, filed 10/9/79; 79-09-001 (Order DE 79-6), § 173-19-420, filed 8/2/79; Order DE 77-16, § 173-19-420, filed 9/9/77; Order DE 74-23, § 173-19-420, filed 12/30/74.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-4201 Bucoda, town of. [Statutory Authority: RCW 90.58.200. 90-11-072 (Order 90-07), § 173-19-4201, filed 5/16/90, effective 6/16/90. Statutory Authority: RCW 90.58.120 and 90.58.200. 84-19-038 (Order DE 84-30), § 173-19-4201, filed 9/14/84. Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-4201, filed 1/30/80.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-4202 Lacey, city of. [Statutory Authority: RCW 90.58.200. 90-11-072 (Order 90-07), § 173-19-4202, filed 5/16/90, effective 6/16/90. Statutory Authority: RCW 90.58.120 and 90.58.200. 84-19-038 (Order DE 84-30), § 173-19-4202, filed 9/14/84; 82-02-080 (Order DE 81-47), § 173-19-4202, filed 1/6/82. Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-4202, filed 1/30/80.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-4203 Olympia, city of. [Statutory Authority: RCW 90.58.200. 94-13-047 (Order 94-10), § 173-19-4203, filed 6/7/94, effective 7/8/94; 93-12-107, § 173-19-4203, filed 6/2/93, effective 7/3/93; 90-11-072 (Order 90-07), § 173-19-4203, filed 5/16/90, effective 6/16/90. Statutory Authority: RCW 90.58.120 and 90.58.200. 87-20-026 (Order DE 87-28), § 173-19-4203, filed 9/30/87; 84-19-038 (Order DE 84-30), § 173-19-4203, filed 9/14/84; 84-10-051 (Order 84-17), § 173-19-4203, filed 5/2/84; 84-08-028 (Order DE 84-9), § 173-19-4203, filed 3/29/84. Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-4203, filed 1/30/80.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-4204 Tenino, town of. [Statutory Authority: RCW 90.58.200. 90-11-072 (Order 90-07), § 173-19-4204, filed 5/16/90, effective 6/16/90. Statutory Authority: RCW 90.58.120 and 90.58.200. 84-19-038 (Order DE 84-30), § 173-19-4204, filed 9/14/84. Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-4204, filed 1/30/80.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-4205 Tumwater, city of. [Statutory Authority: Chapter 90.58 RCW. 95-16-048 (Order 94-39), § 173-19-4205, filed 7/25/95, effective 8/25/95. Statutory Authority: RCW 90.58.200. 94-10-080 (Order 94-01), § 173-19-4205, filed 5/4/94, effective 6/4/94; 93-22-063 and 93-22-099 (Orders 93-21 and 93-21A), § 173-19-4205, filed 10/29/93 and 11/3/93, effective 11/29/93 and 12/4/93; 92-09-134 (Order 92-03), § 173-19-4205, filed 4/21/92, effective 5/22/92; 91-09-055 (Order 91-10), § 173-19-4205, filed 4/16/91, effective 5/17/91; 90-20-110 (Order 90-33), § 173-19-4205, filed 10/2/90, effective 11/2/90; 90-11-072 (Order 90-07), § 173-19-4205, filed 5/16/90, effective 6/16/90. Statutory Authority: RCW 90.58.120 and 90.58.200. 87-20-026 (Order DE 87-28), § 173-19-4205, filed 9/30/87; 84-19-038 (Order DE 84-30), § 173-19-4205, filed 9/14/84. Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-4205, filed 1/30/80.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-4206 Yelm, town of. [Statutory Authority: RCW 90.58.200. 90-11-072 (Order 90-07), § 173-19-4206, filed 5/16/90, effective 6/16/90. Statutory Authority: RCW 90.58.120 and 90.58.200. 84-19-038 (Order DE 84-30), § 173-19-4206, filed 9/14/84; 82-02-081 (Order DE 81-48), § 173-19-4206, filed 1/6/82. Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-4206, filed 1/30/80.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-430 Wahkiakum County. [Statutory Authority: RCW 90.58.200. 92-16-095 (Order 92-17), § 173-19-430, filed 8/5/92, effective 9/5/92. Statutory Authority: RCW 90.58.120 and 90.58.200. 86-07-049 (Order 85-29), § 173-19-430, filed 3/18/86; 81-12-003 (Order DE 81-13), § 173-19-430, filed 5/21/81; 80-04-026 (Order DE 80-10), § 173-19-430, filed 3/18/80. Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-430, filed 1/30/80; 79-09-001 (Order DE 79-6), § 173-19-430, filed 8/2/79; Order DE 75-21, § 173-19-430, filed 8/12/75; Order DE 74-23, § 173-19-430, filed 12/30/74.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-4301 Cathlamet, town of. [Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-4301, filed 1/30/80.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-440 Walla Walla County. [Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-440, filed 1/30/80; 79-09-001 (Order DE 79-6), § 173-19-440, filed 8/2/79; Order DE 77-16, § 173-19-440, filed 9/9/77; Order DE 75-21, § 173-19-440, filed 8/12/75; Order 74-23, § 173-19-440, filed 12/30/74.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-4401 Waitsburg, town of. [Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-4401, filed 1/30/80.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-4402 Walla Walla, city of. [Statutory Authority: RCW 90.58.120 and 90.58.200. 85-16-105 (Order DE 85-11), § 173-19-4402, filed 8/6/85; 81-16-078 (Order DE 81-21), § 173-19-4402, filed 8/5/81. Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-4402, filed 1/30/80.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-450 Whatcom County. [Statutory Authority: RCW 90.58.200. 93-04-063 (Order 92-48), § 173-19-450, filed 1/28/93, effective 2/28/93; 90-20-107 (Order 90-26), § 173-19-450, filed 10/2/90, effective 11/2/90. Stat-

utory Authority: RCW 90.58.120 and 90.58.200. 87-13-018 (Order DE 87-07), § 173-19-450, filed 6/9/87; 85-04-040 (Order 84-46), § 173-19-450, filed 2/1/85; 84-06-043 (Order DE 83-40), § 173-19-450, filed 3/2/84; 83-02-006 (Order DE 82-45), § 173-19-450, filed 12/23/82; 82-07-005 (Order DE 82-4), § 173-19-450, filed 3/4/82; 82-02-077 (Order DE 81-49), § 173-19-450, filed 1/6/82; 82-01-088 (Order DE 81-31), § 173-19-450, filed 12/22/81. Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-450, filed 1/30/80; 79-09-001 (Order DE 79-6), § 173-19-450, filed 8/2/79; Order DE 77-16, § 173-19-450, filed 9/9/77; Order DE 76-15, § 173-19-450, filed 5/3/76; Order DE 74-23, § 173-19-450, filed 12/30/74.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-4501 Bellingham, city of. [Statutory Authority: RCW 90.58.200. 89-23-127 (Order 89-55), § 173-19-4501, filed 11/22/89, effective 12/23/89. Statutory Authority: RCW 90.58.120 and 90.58.200. 84-08-029 (Order DE 84-11), § 173-19-4501, filed 3/29/84. Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-4501, filed 1/30/80.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-4502 Blaine, city of. [Statutory Authority: RCW 90.58.120 and 90.58.200. 84-21-065 (Order DE-84-35), § 173-19-4502, filed 10/17/84; 84-16-006 (Order 84-20), § 173-19-4502, filed 7/19/84; 82-10-001 (Order DE 82-05), § 173-19-4502, filed 4/23/82. Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-08-054 (Order DE 80-25), § 173-19-4502, filed 6/30/80; 80-02-123 (Order DE 79-34), § 173-19-4502, filed 1/30/80.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-4503 Everson, city of. [Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-4503, filed 1/30/80.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-4504 Ferndale, city of. [Statutory Authority: RCW 90.58.120 and 90.58.200. 82-01-049 (Order DE 81-43), § 173-19-4504, filed 12/16/81. Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-4504, filed 1/30/80.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-4505 Lynden, city of. [Statutory Authority: RCW 90.58.120 and 90.58.200. 81-24-076 (Order DE 81-39), § 173-19-4505, filed 12/2/81. Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-4505, filed 1/30/80.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-4506 Nooksack, city of. [Statutory Authority: RCW 90.58.120 and 90.58.200. 85-20-095 (Order DE 85-21), § 173-19-4506, filed 10/1/85. Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-4506, filed 1/30/80.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-4507 Sumas, city of. [Statutory Authority: RCW 90.58.200. 90-07-063 (Order 89-65), § 173-19-4507, filed 3/20/90, effective 4/20/90. Statutory Authority: RCW 90.58.120 and 90.58.200. 89-03-010 (Order DE 88-48), § 173-19-4507, filed 1/6/89. Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-4507, filed 1/30/80.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-460 Whitman County. [Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-460, filed 1/30/80; 79-09-001 (Order DE 79-6), § 173-19-460, filed 8/2/79; Order DE 75-21, § 173-19-460, filed 8/12/75; Order DE 74-23, § 173-19-460, filed 12/30/74.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-4601 Albion, town of. [Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-4601, filed 1/30/80.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-4602 Colfax, city of. [Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-4602, filed 1/30/80.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-4603 Malden, town of. [Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-4603, filed 1/30/80.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-4604 Palouse, city of. [Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-4604, filed 1/30/80.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-4605 Pullman, city of. [Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-4605, filed 1/30/80.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-4606 Rosalia, town of. [Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-4606, filed 1/30/80.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-4607 Tekoa, city of. [Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-4607, filed 1/30/80.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-470 Yakima County. [Statutory Authority: RCW 90.58.120 and 90.58.200. 81-20-044 (Order DE 81-29), § 173-19-470, filed 10/1/81; 81-06-050 (Order DE 81-1), § 173-19-470, filed 2/27/81. Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-470, filed 1/30/80; 79-09-001 (Order DE 79-6), § 173-19-470, filed 8/2/79; Order DE 75-21, § 173-19-470 filed 8/12/75; Order DE 74-23, § 173-19-470, filed 12/30/74.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-4701 Grandview, city of. [Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-4701, filed 1/30/80.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-4702 Granger, town of. [Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-4702, filed 1/30/80.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-4703 Naches, town of. [Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-4703, filed 1/30/80.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-4704 Selah, city of. [Statutory Authority: RCW 90.58.120 and 90.58.200. 84-08-003 (Order DE 84-10), § 173-19-4704, filed 3/22/84. Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-4704, filed 1/30/80.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-4705 Union Gap, city of. [Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123

(Order DE 79-34), § 173-19-4705, filed 1/30/80.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-4706 Yakima, city of. [Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-4706, filed 1/30/80.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

173-19-4707 Zillah, city of. [Statutory Authority: RCW 90.58.030 (3)(c), 90.58.120 and 90.58.200. 80-02-123 (Order DE 79-34), § 173-19-4707, filed 1/30/80.] Repealed by 96-20-075 (Order 95-17), filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

Chapter 173-28
ESTABLISHING LAKE WASHINGTON AS A REGION PURSUANT TO SHORELINE MANAGEMENT ACT OF 1971

173-28-010 Authority. [Order 73-8, § 173-28-010, filed 6/19/73.] Repealed by 96-20-074, filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.200.

173-28-020 Findings. [Order 73-8, § 173-28-020, filed 6/19/73.] Repealed by 96-20-074, filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.200.

173-28-030 Conclusion. [Order 73-8, § 173-28-030, filed 6/19/73.] Repealed by 96-20-074, filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.200.

173-28-040 Composition of Lake Washington region. [Order 73-8, § 173-28-040, filed 6/19/73.] Repealed by 96-20-074, filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.200.

173-28-050 Geographical extent of region. [Order 73-8, § 173-28-050, filed 6/19/73.] Repealed by 96-20-074, filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.200.

173-28-060 Duties of the local governmental units comprising the region. [Order 73-8, § 173-28-060, filed 6/19/73.] Repealed by 96-20-074, filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.200.

173-28-070 Review of master programs by the department of ecology. [Order 73-8, § 173-28-070, filed 6/19/73.] Repealed by 96-20-074, filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.200.

173-28-080 Fund availability. [Order 73-8, § 173-28-080, filed 6/19/73.] Repealed by 96-20-074, filed 9/30/96, effective 10/31/96. Statutory Authority: RCW 90.58.200.

Chapter 173-30
MINIMUM WATER FLOWS—CEDAR RIVER

173-30-010 Background and authority. [Order 71-7, § 173-30-010, filed 8/17/71.] Repealed by 79-10-002 (Order DE 79-9), filed 9/6/79. Statutory Authority: Chapters 90.22 and 90.54 RCW. Later promulgation, see chapter 173-508 WAC.

173-30-020 Applicability. [Order 71-7, § 173-30-020, filed 8/17/71.] Repealed by 79-10-002 (Order DE 79-9), filed 9/6/79. Statutory Authority: Chapters 90.22 and 90.54 RCW. Later promulgation, see chapter 173-508 WAC.

173-30-030 Measurement. [Order 71-7, § 173-30-030, filed 8/17/71.] Repealed by 79-10-002 (Order DE 79-9), filed 9/6/79. Statutory Authority: Chapters 90.22 and 90.54 RCW. Later promulgation, see chapter 173-508 WAC.

173-30-040 Declaration of minimum flows. [Order 71-7, § 173-30-040, filed 8/17/71.] Repealed by 79-10-002 (Order DE 79-9), filed 9/6/79. Statutory Authority: Chapters 90.22 and 90.54 RCW. Later promulgation, see chapter 173-508 WAC.

173-30-050 Future rights. [Order 71-7, § 173-30-050, filed 8/17/71.] Repealed by 79-10-002 (Order DE 79-9), filed 9/6/79. Statutory Authority: Chapters 90.22 and 90.54 RCW. Later promulgation, see chapter 173-508 WAC.

173-30-060 Enforcement. [Order 71-7, § 173-30-060, filed 8/17/71.] Repealed by 79-10-002 (Order DE 79-9), filed 9/6/79. Statutory Authority: Chapters 90.22 and 90.54 RCW. Later promulgation, see chapter 173-508 WAC.

173-30-070 Public information. [Order 71-7, § 173-30-070, filed 8/17/71.] Repealed by 79-10-002 (Order DE 79-9), filed 9/6/79. Statutory Authority: Chapters 90.22 and 90.54 RCW. Later promulgation, see chapter 173-508 WAC.

Chapter 173-32
ALLOCATION OF FINANCIAL AID TO COUNTIES AND CITIES TO ASSIST IN COMPREHENSIVE PLANNING FOR SOLID WASTE MANAGEMENT

173-32-010 Reserved. [Statutory Authority: RCW 43.21A.080 and chapter 70.105D RCW. 90-18-064 (Order 90-17), § 173-32-010, filed 9/4/90, effective 10/5/90; Order DE 71-2, § 173-32-010, filed 4/30/71.] Repealed by 97-18-047 (Order 97-17), filed 8/28/97, effective 9/28/97.

173-32-020 Reserved. [Statutory Authority: RCW 43.21A.080 and chapter 70.105D RCW. 90-18-064 (Order 90-17), § 173-32-020, filed 9/4/90, effective 10/5/90; Order DE 71-2, § 173-32-020, filed 4/30/71.] Repealed by 97-18-047 (Order 97-17), filed 8/28/97, effective 9/28/97.

173-32-030 Reserved. [Statutory Authority: RCW 43.21A.080 and chapter 70.105D RCW. 90-18-064 (Order 90-17), § 173-32-030, filed 9/4/90, effective 10/5/90; Order DE 71-2, § 173-32-030, filed 4/30/71.] Repealed by 97-18-047 (Order 97-17), filed 8/28/97, effective 9/28/97.

173-32-040 Reserved. [Statutory Authority: RCW 43.21A.080 and chapter 70.105D RCW. 90-18-064 (Order 90-17), § 173-32-040, filed 9/4/90, effective 10/5/90; Order DE 71-2, § 173-32-040, filed 4/30/71.] Repealed by 97-18-047 (Order 97-17), filed 8/28/97, effective 9/28/97.

Chapter 173-34
EXEMPTIONS FROM THE DETAILED STATEMENT REQUIREMENTS OF THE STATE ENVIRONMENTAL POLICY ACT

173-34-010 Purpose. [Order 73-15, § 173-34-010, filed 8/14/73.] Repealed by 94-07-078 (Order 94-02), filed 3/16/94, effective 4/16/94.

173-34-020 Definitions. [Order 73-15, § 173-34-020, filed 8/14/73.] Repealed by 94-07-078 (Order 94-02), filed 3/16/94, effective 4/16/94.

173-34-030 Exemptions. [Order 73-15, § 173-34-030, filed 8/14/73.] Repealed by 94-07-078 (Order 94-02), filed 3/16/94, effective 4/16/94.

173-34-040 Exemptions—Nonexempt actions. [Order 73-15, § 173-34-040, filed 8/14/73.] Repealed by 94-07-078 (Order 94-02), filed 3/16/94, effective 4/16/94.

173-34-050 Exemptions—Limitation of exemptions. [Order 73-15, § 173-34-050, filed 8/14/73.] Repealed by 94-07-078 (Order 94-02), filed 3/16/94, effective 4/16/94.

Chapter 173-70
WATERCRAFT NOISE PERFORMANCE STANDARDS

173-70-010 Introduction. [Statutory Authority: Chapter 70.107 RCW. 79-04-034 (Order DE 78-20), § 173-70-010, filed 3/22/79, effective 5/1/79.] Repealed by 94-12-001 (Order 92-41), filed 5/18/94, effective 6/18/94. Statutory Authority: Chapter 70.107 RCW.

173-70-020 Definitions. [Statutory Authority: Chapter 70.107 RCW. 79-04-034 (Order DE 78-20), § 173-70-020, filed 3/22/79, effective 5/1/79.] Repealed by 94-12-001 (Order 92-41), filed 5/18/94, effective 6/18/94. Statutory Authority: Chapter 70.107 RCW.

173-70-030 Identification of receiving property environments. [Statutory Authority: Chapter 70.107 RCW. 79-04-034 (Order DE 78-20), § 173-70-030, filed 3/22/79, effective 5/1/79.] Repealed by 94-12-001 (Order 92-41), filed 5/18/94, effective 6/18/94. Statutory Authority: Chapter 70.107 RCW.

173-70-040 Standards. [Statutory Authority: Chapter 70.107 RCW. 79-04-034 (Order DE 78-20), § 173-70-040, filed 3/22/79, effective 5/1/79.] Repealed by 94-12-001 (Order 92-41), filed 5/18/94, effective 6/18/94. Statutory Authority: Chapter 70.107 RCW.

173-70-050 Exemptions. [Statutory Authority: Chapter 70.107 RCW. 79-04-034 (Order DE 78-20), § 173-70-050, filed 3/22/79, effective 5/1/79.] Repealed by 94-12-001 (Order 92-41), filed 5/18/94, effective 6/18/94. Statutory Authority: Chapter 70.107 RCW.

173-70-060 Nuisance regulations not prohibited. [Statutory Authority: Chapter 70.107 RCW. 79-04-034 (Order DE 78-20), § 173-70-060, filed 3/22/79, effective 5/1/79.] Repealed by 94-12-001 (Order 92-41), filed 5/18/94, effective 6/18/94. Statutory Authority: Chapter 70.107 RCW.

173-70-070 Future standards. [Statutory Authority: Chapter 70.107 RCW. 79-04-034 (Order DE 78-20), § 173-70-070, filed 3/22/79, effective 5/1/79.] Repealed by 94-12-001

(Order 92-41), filed 5/18/94, effective 6/18/94. Statutory Authority: Chapter 70.107 RCW.

173-70-080 Implementation schedules. [Statutory Authority: Chapter 70.107 RCW. 79-04-034 (Order DE 78-20), § 173-70-080, filed 3/22/79, effective 5/1/79.] Repealed by 94-12-001 (Order 92-41), filed 5/18/94, effective 6/18/94. Statutory Authority: Chapter 70.107 RCW.

173-70-090 Enforcement. [Statutory Authority: Chapter 70.107 RCW. 79-04-034 (Order DE 78-20), § 173-70-090, filed 3/22/79, effective 5/1/79.] Repealed by 94-12-001 (Order 92-41), filed 5/18/94, effective 6/18/94. Statutory Authority: Chapter 70.107 RCW.

173-70-100 Appeals. [Statutory Authority: Chapter 70.107 RCW. 79-04-034 (Order DE 78-20), § 173-70-100, filed 3/22/79, effective 5/1/79.] Repealed by 94-12-001 (Order 92-41), filed 5/18/94, effective 6/18/94. Statutory Authority: Chapter 70.107 RCW.

173-70-110 Cooperation with local government. [Statutory Authority: Chapter 70.107 RCW. 79-04-034 (Order DE 78-20), § 173-70-110, filed 3/22/79, effective 5/1/79.] Repealed by 94-12-001 (Order 92-41), filed 5/18/94, effective 6/18/94. Statutory Authority: Chapter 70.107 RCW.

173-70-120 Effective date. [Statutory Authority: Chapter 70.107 RCW. 79-04-034 (Order DE 78-20), § 173-70-120, filed 3/22/79, effective 5/1/79.] Repealed by 94-12-001 (Order 92-41), filed 5/18/94, effective 6/18/94. Statutory Authority: Chapter 70.107 RCW.

Chapter 173-90
STANDARDS AND LIMITATIONS ON THE USE OF CLEAN WATER FUNDS FOR POLLUTION ABATEMENT

173-90-010 Purpose and scope. [Statutory Authority: 1986 c 3 § 4. 86-19-042 (Order DE 86-25), § 173-90-010, filed 9/12/86.] Repealed by 97-17-082 (Order 97-16), filed 8/19/97, effective 9/19/97.

173-90-015 Definitions. [Statutory Authority: 1986 c 3 § 4. 86-19-042 (Order DE 86-25), § 173-90-015, filed 9/12/86.] Repealed by 97-17-082 (Order 97-16), filed 8/19/97, effective 9/19/97.

173-90-020 Provision of guidelines. [Statutory Authority: 1986 c 3 § 4. 86-19-042 (Order DE 86-25), § 173-90-020, filed 9/12/86.] Repealed by 97-17-082 (Order 97-16), filed 8/19/97, effective 9/19/97.

173-90-040 Ground water management area planning grants—Eligibility criteria, funding levels, development of priority rating and priority lists—Eligibility criteria. [Statutory Authority: 1986 c 3 § 4. 86-19-042 (Order DE 86-25), § 173-90-040, filed 9/12/86.] Repealed by 97-17-082 (Order 97-16), filed 8/19/97, effective 9/19/97.

173-90-050 Nonpoint source pollution control activity grants—Eligible criteria, funding levels and administration, and establishing highest priority. [Statutory Authority: 1986 c 3 § 4. 86-19-042 (Order DE 86-25), § 173-90-050, filed 9/12/86.] Repealed by 97-17-082 (Order 97-16), filed 8/19/97, effective 9/19/97.

173-90-060 Aquifer protection assistance grants—Eligibility criteria, funding levels, and establishing highest priority. [Statutory Authority: 1986 c 3 § 4. 86-19-042 (Order DE 86-25), § 173-90-060, filed 9/12/86.] Repealed by 97-17-082 (Order 97-16), filed 8/19/97, effective 9/19/97.

173-90-070 Water pollution control design grants—Eligibility criteria, funding levels, and establishing highest priority. [Statutory Authority: 1986 c 3 § 4. 86-19-042 (Order DE 86-25), § 173-90-070, filed 9/12/86.] Repealed by 97-17-082 (Order 97-16), filed 8/19/97, effective 9/19/97.

Chapter 173-95
USES AND LIMITATIONS OF CENTENNIAL CLEAN WATER FUNDS

173-95-010 Purpose and scope. [Statutory Authority: Chapter 70.146 RCW. 88-14-125 (Order 88-70), § 173-95-010, filed 7/6/88.] Repealed by 94-04-030, filed 1/26/94, effective 2/26/94.

173-95-020 Definitions. [Statutory Authority: Chapter 70.146 RCW. 88-14-125 (Order 88-70), § 173-95-020, filed 7/6/88.] Repealed by 94-04-030, filed 1/26/94, effective 2/26/94.

173-95-030 Provision of guidelines. [Statutory Authority: Chapter 70.146 RCW. 88-14-125 (Order 88-70), § 173-95-030, filed 7/6/88.] Repealed by 94-04-030, filed 1/26/94, effective 2/26/94.

173-95-040 Limitations on the use of funds. [Statutory Authority: Chapter 70.146 RCW. 88-14-125 (Order 88-70), § 173-95-040, filed 7/6/88.] Repealed by 94-04-030, filed 1/26/94, effective 2/26/94.

173-95-050 Compliance with applicable laws, regulations and other requirements. [Statutory Authority: Chapter 70.146 RCW. 88-14-125 (Order 88-70), § 173-95-050, filed 7/6/88.] Repealed by 94-04-030, filed 1/26/94, effective 2/26/94.

173-95-060 Indemnification. [Statutory Authority: Chapter 70.146 RCW. 88-14-125 (Order 88-70), § 173-95-060, filed 7/6/88.] Repealed by 94-04-030, filed 1/26/94, effective 2/26/94.

173-95-070 Appropriation of funds by the legislature. [Statutory Authority: Chapter 70.146 RCW. 88-14-125 (Order 88-70), § 173-95-070, filed 7/6/88.] Repealed by 94-04-030, filed 1/26/94, effective 2/26/94.

173-95-080 General provisions. [Statutory Authority: Chapter 70.146 RCW. 88-14-125 (Order 88-70), § 173-95-080, filed 7/6/88.] Repealed by 94-04-030, filed 1/26/94, effective 2/26/94.

173-95-090 Funding processes. [Statutory Authority: Chapter 70.146 RCW. 88-14-125 (Order 88-70), § 173-95-090, filed 7/6/88.] Repealed by 94-04-030, filed 1/26/94, effective 2/26/94.

173-95-100 Marine water facilities funding category. [Statutory Authority: Chapter 70.146 RCW. 88-14-125 (Order 88-70), § 173-95-100, filed 7/6/88.] Repealed by 94-04-030, filed 1/26/94, effective 2/26/94.

173-95-110 Ground water activities and facilities funding category. [Statutory Authority: Chapter 70.146 RCW. 88-14-125 (Order 88-70), § 173-95-110, filed 7/6/88.] Repealed by 94-04-030, filed 1/26/94, effective 2/26/94.

173-95-120 Freshwater lakes and rivers activities and facilities funding category. [Statutory Authority: Chapter 70.146 RCW. 88-14-125 (Order 88-70), § 173-95-120, filed 7/6/88.] Repealed by 94-04-030, filed 1/26/94, effective 2/26/94.

173-95-130 Nonpoint activities and facilities funding category. [Statutory Authority: Chapter 70.146 RCW. 88-14-125 (Order 88-70), § 173-95-130, filed 7/6/88.] Repealed by 94-04-030, filed 1/26/94, effective 2/26/94.

173-95-140 Discretionary activities and facilities funding category. [Statutory Authority: Chapter 70.146 RCW. 88-14-125 (Order 88-70), § 173-95-140, filed 7/6/88.] Repealed by 94-04-030, filed 1/26/94, effective 2/26/94.

173-95-150 Financial hardship eligibility and remedies. [Statutory Authority: Chapter 70.146 RCW. 88-14-125 (Order 88-70), § 173-95-150, filed 7/6/88.] Repealed by 94-04-030, filed 1/26/94, effective 2/26/94.

173-95-160 Applicability of centennial clean water regulation and funds. [Statutory Authority: Chapter 70.146 RCW. 88-14-125 (Order 88-70), § 173-95-160, filed 7/6/88.] Repealed by 94-04-030, filed 1/26/94, effective 2/26/94.

Chapter 173-108
WITHDRAWAL OF THE WATERS OF THE LITTLE SPOKANE RIVER WATERSHED FROM ADDITIONAL APPROPRIATIONS

173-108-010 Authority. [Order 73-19, § 173-108-010, filed 9/21/73.] Repealed by Order DE 75-24, filed 1/6/76. Later promulgation, see chapters 173-500 and 173-555 WAC.

173-108-020 Purpose. [Order 73-19, § 173-108-020, filed 9/21/73.] Repealed by Order DE 75-24, filed 1/6/76. Later promulgation, see chapters 173-500 and 173-555 WAC.

173-108-030 Definitions. [Order 73-19, § 173-108-030, filed 9/21/73.] Repealed by Order DE 75-24, filed 1/6/76. Later promulgation, see chapters 173-500 and 173-555 WAC.

173-108-040 Declaration of withdrawal. [Order 73-19, § 173-108-040, filed 9/21/73.] Repealed by Order DE 75-24, filed 1/6/76.

173-108-050 Existing rights not affected. [Order 73-19, § 173-108-050, filed 9/21/73.] Repealed by Order DE 75-24, filed 1/6/76.

173-108-060 Existing rights not affected—Exemptions. [Order 73-19, § 173-108-060, filed 9/21/73.] Repealed by Order DE 75-24, filed 1/6/76.

Chapter 173-128
ODESSA GROUND WATER MANAGEMENT SUBAREA

173-128-010 Background. [Order 72-25, § 173-128-010, filed 1/15/73.] Repealed by 82-14-041 (Order DE 82-23), filed 6/30/82. Statutory Authority: RCW 43.21A.060,

43.21A.080, 43.27A.090, 90.44.130 and 90.54.040(2). Later promulgation, see WAC 173-128A-020.

173-128-020 Purpose. [Order 72-25, § 173-128-020, filed 1/15/73.] Repealed by 82-14-041 (Order DE 82-23), filed 6/30/82. Statutory Authority: RCW 43.21A.060, 43.21A.080, 43.27A.090, 90.44.130 and 90.54.040(2). Later promulgation, see WAC 173-128A-030.

173-128-030 Authority. [Order 72-25, § 173-128-030, filed 1/15/73.] Repealed by 82-14-041 (Order DE 82-23), filed 6/30/82. Statutory Authority: RCW 43.21A.060, 43.21A.080, 43.27A.090, 90.44.130 and 90.54.040(2). Later promulgation, see WAC 173-128A-010.

173-128-040 Subarea definition. [Order 72-25, § 173-128-040, filed 1/15/73.] Repealed by 82-14-041 (Order DE 82-23), filed 6/30/82. Statutory Authority: RCW 43.21A.060, 43.21A.080, 43.27A.090, 90.44.130 and 90.54.040(2). Later promulgation, see WAC 173-128A-040.

173-128-050 Subarea map. [Order 72-25, § 173-128-050, filed 1/15/73.] Repealed by 82-14-041 (Order DE 82-23), filed 6/30/82. Statutory Authority: RCW 43.21A.060, 43.21A.080, 43.27A.090, 90.44.130 and 90.54.040(2). Later promulgation, see WAC 173-128A-050.

Chapter 173-130
ODESSA GROUND WATER SUBAREA MANAGEMENT POLICY

173-130-010 Background. [Order DE 73-32, § 173-130-010, filed 1/25/74.] Repealed by 82-16-103 (Order 82-27), filed 8/4/82. Statutory Authority: RCW 43.21A.060, 43.21A.080, 43.27A.090, 90.44.130 and 90.54.040(2). Later promulgation, see WAC 173-130A-020.

173-130-020 Authority. [Order DE 73-32, § 173-130-020, filed 1/25/74.] Repealed by 82-16-103 (Order 82-27), filed 8/4/82. Statutory Authority: RCW 43.21A.060, 43.21A.080, 43.27A.090, 90.44.130 and 90.54.040(2). Later promulgation, see WAC 173-130A-010.

173-130-030 Definitions. [Order DE 73-32, § 173-130-030, filed 1/25/74.] Repealed by 82-16-103 (Order 82-27), filed 8/4/82. Statutory Authority: RCW 43.21A.060, 43.21A.080, 43.27A.090, 90.44.130 and 90.54.040(2). Later promulgation, see WAC 173-130A-030.

173-130-040 Purpose. [Order DE 73-32, § 173-130-040, filed 1/25/74.] Repealed by 82-16-103 (Order 82-27), filed 8/4/82. Statutory Authority: RCW 43.21A.060, 43.21A.080, 43.27A.090, 90.44.130 and 90.54.040(2). Later promulgation, see WAC 173-130A-040.

173-130-050 Depth zone designation. [Order DE 73-32, § 173-130-050, filed 1/25/74.] Repealed by 82-16-103 (Order 82-27), filed 8/4/82. Statutory Authority: RCW 43.21A.060, 43.21A.080, 43.27A.090, 90.44.130 and 90.54.040(2).

173-130-060 Rate of decline in water level to be controlled. [Order DE 73-32, § 173-130-060, filed 1/25/74.] Repealed by 82-16-103 (Order 82-27), filed 8/4/82. Statutory Authority: RCW 43.21A.060, 43.21A.080, 43.27A.090, 90.44.130 and 90.54.040(2). Later promulgation, see WAC 173-130A-060.

173-130-070 Maximum lowering of the water table. [Order DE 73-32, § 173-130-070, filed 1/25/74.] Repealed by 82-16-103 (Order 82-27), filed 8/4/82. Statutory Authority: RCW 43.21A.060, 43.21A.080, 43.27A.090, 90.44.130 and 90.54.040(2). Later promulgation, see WAC 173-130A-070.

173-130-080 Regulation of withdrawal of ground water. [Order DE 75-33, § 173-130-080, filed 1/23/76; Order DE 73-32, § 173-130-080, filed 1/25/74.] Repealed by 82-16-103 (Order 82-27), filed 8/4/82. Statutory Authority: RCW 43.21A.060, 43.21A.080, 43.27A.090, 90.44.130 and 90.54.040(2). Later promulgation, see WAC 173-130A-080.

173-130-090 Notice of regulation. [Order DE 73-32, § 173-130-090, filed 1/25/74.] Repealed by 82-16-103 (Order 82-27), filed 8/4/82. Statutory Authority: RCW 43.21A.060, 43.21A.080, 43.27A.090, 90.44.130 and 90.54.040(2). Later promulgation, see WAC 173-130A-090.

173-130-100 No increase in ground water withdrawals during regulation. [Order DE 73-32, § 173-130-100, filed 1/25/74.] Repealed by 82-16-103 (Order 82-27), filed 8/4/82. Statutory Authority: RCW 43.21A.060, 43.21A.080, 43.27A.090, 90.44.130 and 90.54.040(2).

173-130-110 Supplemental wells regulated. [Order DE 73-32, § 173-130-110, filed 1/25/74.] Repealed by 82-16-103 (Order 82-27), filed 8/4/82. Statutory Authority: RCW 43.21A.060, 43.21A.080, 43.27A.090, 90.44.130 and 90.54.040(2).

173-130-120 Annual volume of water determined. [Order DE 73-32, § 173-130-120, filed 1/25/74.] Repealed by 82-16-103 (Order 82-27), filed 8/4/82. Statutory Authority: RCW 43.21A.060, 43.21A.080, 43.27A.090, 90.44.130 and 90.54.040(2).

173-130-130 New ground water withdrawals. [Order DE 73-32, § 173-130-130, filed 1/25/74.] Repealed by 82-16-103 (Order 82-27), filed 8/4/82. Statutory Authority: RCW 43.21A.060, 43.21A.080, 43.27A.090, 90.44.130 and 90.54.040(2).

173-130-140 New applications for withdrawal of ground waters. [Order DE 73-32, § 173-130-140, filed 1/25/74.] Repealed by 82-16-103 (Order 82-27), filed 8/4/82. Statutory Authority: RCW 43.21A.060, 43.21A.080, 43.27A.090, 90.44.130 and 90.54.040(2). Later promulgation, see WAC 173-130A-100.

173-130-150 Time sequence for processing new applications to appropriate ground water. [Order DE 75-33, § 173-130-150, filed 1/23/76; Order DE 73-32, § 173-130-150, filed 1/25/74.] Repealed by 82-16-103 (Order 82-27), filed 8/4/82. Statutory Authority: RCW 43.21A.060, 43.21A.080, 43.27A.090, 90.44.130 and 90.54.040(2).

173-130-155 Reworking wells. [Order DE 75-33, § 173-130-155, filed 1/23/76.] Repealed by 82-16-103 (Order 82-27), filed 8/4/82. Statutory Authority: RCW 43.21A.060, 43.21A.080, 43.27A.090, 90.44.130 and 90.54.040(2). Later promulgation, see WAC 173-130A-180.

173-130-160 Bore hole logs required. [Order DE 75-33, § 173-130-160, filed 1/23/76; Order DE 73-32, § 173-130-160, filed 1/25/74.] Repealed by 82-16-103 (Order 82-27), filed 8/4/82. Statutory Authority: RCW 43.21A.060, 43.21A.080, 43.27A.090, 90.44.130 and 90.54.040(2). Later promulgation, see WAC 173-130A-190.

173-130-170 Distance of wells from East Low Canal. [Order DE 73-32, § 173-130-170, filed 1/25/74.] Repealed by 82-16-103 (Order 82-27), filed 8/4/82. Statutory Authority: RCW 43.21A.060, 43.21A.080, 43.27A.090, 90.44.130 and 90.54.040(2). Later promulgation, see WAC 173-130A-110.

173-130-180 Supplemental surface water. [Order DE 73-32, § 173-130-180, filed 1/25/74.] Repealed by 82-16-103 (Order 82-27), filed 8/4/82. Statutory Authority: RCW 43.21A.060, 43.21A.080, 43.27A.090, 90.44.130 and 90.54.040(2).

173-130-190 Ground water supervisors. [Order DE 73-32, § 173-130-190, filed 1/25/74.] Repealed by 82-16-103 (Order 82-27), filed 8/4/82. Statutory Authority: RCW 43.21A.060, 43.21A.080, 43.27A.090, 90.44.130 and 90.54.040(2).

173-130-195 Irrigation season. [Order DE 75-33, § 173-130-195, filed 1/23/76.] Repealed by 82-16-103 (Order 82-27), filed 8/4/82. Statutory Authority: RCW 43.21A.060, 43.21A.080, 43.27A.090, 90.44.130 and 90.54.040(2). Later promulgation, see WAC 173-130A-130.

173-130-200 Review of regulations. [Order DE 75-33, § 173-130-200, filed 1/23/76; Order DE 73-32, § 173-130-200, filed 1/25/74.] Repealed by 82-16-103 (Order 82-27), filed 8/4/82. Statutory Authority: RCW 43.21A.060, 43.21A.080, 43.27A.090, 90.44.130 and 90.54.040(2). Later promulgation, see WAC 173-130A-220.

Chapter 173-134
THE ESTABLISHMENT OF REGULATIONS FOR THE ADMINISTRATION OF THE QUINCY GROUND WATER SUBAREA ESTABLISHED PURSUANT TO RCW 90.44.130

173-134-010 Administration of withdrawal of ground waters in the Quincy subarea. [Statutory Authority: Chapters 43.21, 43.21A, 43.27A, 90.03 and 90.44 RCW. 79-08-080 (Order DE 79-4), § 173-134-010, filed 7/26/79; Order 74-35, § 173-134-010, filed 1/9/75.] Repealed by 83-12-060 (Order DE 83-10), filed 6/1/83. Statutory Authority: RCW 43.21A.060, 43.21A.080, 43.27A.090, 90.44.130, 90.54.040(2) and chapter 90.03 RCW. Later promulgation, see WAC 173-134A-010.

173-134-020 Definitions. [Order 74-35, § 173-134-020, filed 1/9/75.] Repealed by 83-12-060 (Order DE 83-10), filed 6/1/83. Statutory Authority: RCW 43.21A.060, 43.21A.080, 43.27A.090, 90.44.130, 90.54.040(2) and chapter 90.03 RCW. Later promulgation, see WAC 173-134A-040.

173-134-030 Quincy ground water subarea—Background statement. [Order 74-35, § 173-134-030, filed 1/9/75.] Repealed by 83-12-060 (Order DE 83-10), filed 6/1/83. Statutory Authority: RCW 43.21A.060, 43.21A.080,

43.27A.090, 90.44.130, 90.54.040(2) and chapter 90.03 RCW. Later promulgation, see WAC 173-134A-020.

173-134-040 Quincy ground water subarea—Managed and regulated by department of ecology. [Order 74-35, § 173-134-040, filed 1/9/75.] Repealed by 83-12-060 (Order DE 83-10), filed 6/1/83. Statutory Authority: RCW 43.21A.060, 43.21A.080, 43.27A.090, 90.44.130, 90.54.040(2) and chapter 90.03 RCW. Later promulgation, see WAC 173-134A-050.

173-134-050 Quincy ground water subarea—Withdrawals of waters of deep management unit—Controlled by prior appropriation provisions. [Statutory Authority: Chapters 43.21, 43.21A, 43.27A, 90.03 and 90.44 RCW. 79-08-080 (Order DE 79-4), § 173-134-050, filed 7/26/79; Order 74-35, § 173-134-050, filed 1/9/75.] Repealed by 83-12-060 (Order DE 83-10), filed 6/1/83. Statutory Authority: RCW 43.21A.060, 43.21A.080, 43.27A.090, 90.44.130, 90.54.040(2) and chapter 90.03 RCW. Later promulgation, see WAC 173-134A-060.

173-134-055 Quincy ground water subarea—Public ground water permit amendments. [Statutory Authority: Chapters 43.21, 43.21A, 43.27A, 90.03 and 90.44 RCW. 79-08-080 (Order DE 79-4), § 173-134-055, filed 7/26/79.] Repealed by 83-12-060 (Order DE 83-10), filed 6/1/83. Statutory Authority: RCW 43.21A.060, 43.21A.080, 43.27A.090, 90.44.130, 90.54.040(2) and chapter 90.03 RCW. Later promulgation, see WAC 173-134A-070.

173-134-060 Regulation of water of the shallow management unit—Permit requirements. [Statutory Authority: Chapters 43.21, 43.21A, 43.27A, 90.03 and 90.44 RCW. 79-08-080 (Order DE 79-4), § 173-134-060, filed 7/26/79; Order DE 75-4, § 173-134-060, filed 2/21/75; Order 74-35, § 173-134-060, filed 1/9/75.] Repealed by 83-12-060 (Order DE 83-10), filed 6/1/83. Statutory Authority: RCW 43.21A.060, 43.21A.080, 43.27A.090, 90.44.130, 90.54.040(2) and chapter 90.03 RCW. Later promulgation, see WAC 173-134A-080.

173-134-070 Responsibility for water management—Designation of critical management areas. [Order 74-35, § 173-134-070, filed 1/9/75.] Repealed by 83-12-060 (Order DE 83-10), filed 6/1/83. Statutory Authority: RCW 43.21A.060, 43.21A.080, 43.27A.090, 90.44.130, 90.54.040(2) and chapter 90.03 RCW. Later promulgation, see WAC 173-134A-090.

173-134-080 Establishment of a technical committee of scientific and engineering experts—Purpose. [Order 74-35, § 173-134-080, filed 1/9/75.] Repealed by 83-12-060 (Order DE 83-10), filed 6/1/83. Statutory Authority: RCW 43.21A.060, 43.21A.080, 43.27A.090, 90.44.130, 90.54.040(2) and chapter 90.03 RCW. Later promulgation, see WAC 173-134A-100.

173-134-085 Holder request for protection of interest—Department denial—Subject to review before the pollution control hearings board. [Order 74-35, § 173-134-085, filed 1/9/75.] Repealed by 83-12-060 (Order DE 83-10), filed 6/1/83. Statutory Authority: RCW 43.21A.060, 43.21A.080, 43.27A.090, 90.44.130, 90.54.040(2) and chapter 90.03 RCW. Later promulgation, see WAC 173-134A-110.

173-134-090 Permits not required—Conditions of exemptions. [Order 74-35, § 173-134-090, filed 1/9/75.] Repealed by 83-12-060 (Order DE 83-10), filed 6/1/83. Statutory Authority: RCW 43.21A.060, 43.21A.080, 43.27A.090, 90.44.130, 90.54.040(2) and chapter 90.03 RCW. Later promulgation, see WAC 173-134A-120.

173-134-100 Permits issued or extended—Conditions under which agreements may be entered into. [Order 74-35, § 173-134-100, filed 1/9/75.] Repealed by 83-12-060 (Order DE 83-10), filed 6/1/83. Statutory Authority: RCW 43.21A.060, 43.21A.080, 43.27A.090, 90.44.130, 90.54.040(2) and chapter 90.03 RCW. Later promulgation, see WAC 173-134A-130.

173-134-110 Notification requirements. [Order 74-35, § 173-134-110, filed 1/9/75.] Repealed by 83-12-060 (Order DE 83-10), filed 6/1/83. Statutory Authority: RCW 43.21A.060, 43.21A.080, 43.27A.090, 90.44.130, 90.54.040(2) and chapter 90.03 RCW. Later promulgation, see chapter 173-134A WAC.

173-134-120 Existing laws and rights recognized—Specific jurisdiction. [Order 74-35, § 173-134-120, filed 1/9/75.] Repealed by 83-12-060 (Order DE 83-10), filed 6/1/83. Statutory Authority: RCW 43.21A.060, 43.21A.080, 43.27A.090, 90.44.130, 90.54.040(2) and chapter 90.03 RCW. Later promulgation, see chapter 173-134A WAC.

173-134-130 Modification of rules when action appears justified. [Order 74-35, § 173-134-130, filed 1/9/75.] Repealed by 83-12-060 (Order DE 83-10), filed 6/1/83. Statutory Authority: RCW 43.21A.060, 43.21A.080, 43.27A.090, 90.44.130, 90.54.040(2) and chapter 90.03 RCW. Later promulgation, see chapter 173-134A WAC.

173-134-140 Artificially stored ground water permit applications—Lands not covered by declarations. [Statutory Authority: Chapters 43.21, 43.21A, 43.27A, 90.03 and 90.44 RCW. 79-08-080 (Order DE 79-4), § 173-134-140, filed 7/26/79.] Repealed by 83-12-060 (Order DE 83-10), filed 6/1/83. Statutory Authority: RCW 43.21A.060, 43.21A.080, 43.27A.090, 90.44.130, 90.54.040(2) and chapter 90.03 RCW. Later promulgation, see chapter 173-134A WAC.

173-134-150 Area described at department Order No. DE 75-54—Public ground water permits. [Statutory Authority: Chapters 43.21, 43.21A, 43.27A, 90.03 and 90.44 RCW. 79-08-080 (Order DE 79-4), § 173-134-150, filed 7/26/79.] Repealed by 80-02-025 (Order DE 79-33), filed 1/9/80. Statutory Authority: RCW 43.21A.080 and 43.27A.090(11).

173-134-160 Authorized and unused public ground water in deep management unit—Reservation. [Statutory Authority: Chapters 43.21, 43.21A, 43.27A, 90.03 and 90.44 RCW. 79-08-080 (Order DE 79-4), § 173-134-160, filed 7/26/79.] Repealed by 83-12-060 (Order DE 83-10), filed 6/1/83. Statutory Authority: RCW 43.21A.060, 43.21A.080, 43.27A.090, 90.44.130, 90.54.040(2) and chapter 90.03 RCW. Later promulgation, see WAC 173-134A-160.

Chapter 173-142
DELEGATION OF PERMIT PROGRAM UNDER STATE FLOOD CONTROL ZONE ACT

173-142-010 Authority. [Order DE 74-11, § 173-142-010, filed 6/17/74.] Repealed by 90-21-089, filed 10/19/90, effective 11/19/90. Statutory Authority: RCW 86.16.061.

173-142-020 Purpose. [Order DE 74-11, § 173-142-020, filed 6/17/74.] Repealed by 90-21-089, filed 10/19/90, effective 11/19/90. Statutory Authority: RCW 86.16.061.

173-142-030 Definitions. [Statutory Authority: RCW 86.16.027. 82-24-026 (Order DE 82-38), § 173-142-030, filed 11/23/82; Order DE 74-11, § 173-142-030, filed 6/17/74.] Repealed by 90-21-089, filed 10/19/90, effective 11/19/90. Statutory Authority: RCW 86.16.061.

173-142-040 Scope of delegation. [Statutory Authority: RCW 86.16.027. 82-24-026 (Order DE 82-38), § 173-142-040, filed 11/23/82; Order DE 74-11, § 173-142-040, filed 6/17/74.] Repealed by 90-21-089, filed 10/19/90, effective 11/19/90. Statutory Authority: RCW 86.16.061.

173-142-050 Conformity with department rules. [Statutory Authority: RCW 86.16.027. 82-24-026 (Order DE 82-38), § 173-142-050, filed 11/23/82; Order DE 74-11, § 173-142-050, filed 6/17/74.] Repealed by 90-21-089, filed 10/19/90, effective 11/19/90. Statutory Authority: RCW 86.16.061.

173-142-060 Subdelegation. [Order DE 74-11, § 173-142-060, filed 6/17/74.] Repealed by 82-24-026 (Order DE 82-38), filed 11/23/82. Statutory Authority: RCW 86.16.027.

173-142-070 Requests for delegation. [Statutory Authority: RCW 86.16.027. 82-24-026 (Order DE 82-38), § 173-142-070, filed 11/23/82; Order DE 74-11, § 173-142-070, filed 6/17/74.] Repealed by 90-21-089, filed 10/19/90, effective 11/19/90. Statutory Authority: RCW 86.16.061.

173-142-080 Procedure for delegation. [Statutory Authority: RCW 86.16.027. 82-24-026 (Order DE 82-38), § 173-142-080, filed 11/23/82; Order DE 74-11, § 173-142-080, filed 6/17/74.] Repealed by 90-21-089, filed 10/19/90, effective 11/19/90. Statutory Authority: RCW 86.16.061.

173-142-090 Withdrawal of delegation. [Order DE 74-11, § 173-142-090, filed 6/17/74.] Repealed by 90-21-089, filed 10/19/90, effective 11/19/90. Statutory Authority: RCW 86.16.061.

173-142-100 Permits under delegated programs. [Order DE 74-11, § 173-142-100, filed 6/17/74.] Repealed by 90-21-089, filed 10/19/90, effective 11/19/90. Statutory Authority: RCW 86.16.061.

173-142-110 Appeals. [Order DE 74-11, § 173-142-110, filed 6/17/74.] Repealed by 90-21-089, filed 10/19/90, effective 11/19/90. Statutory Authority: RCW 86.16.061.

Chapter 173-164
WATER RATE CHARGES

173-164-010 Purpose. [Statutory Authority: 1977 ex. sess. c 1. 78-08-026 (Order DE 77-33), § 173-164-010, filed 7/13/78.] Repealed by 93-14-116 (Order 92-54), filed 7/2/93, effective 8/2/93.

173-164-020 Authority. [Statutory Authority: 1977 ex. sess. c 1. 78-08-026 (Order DE 77-33), § 173-164-020, filed 7/13/78.] Repealed by 93-14-116 (Order 92-54), filed 7/2/93, effective 8/2/93.

173-164-030 Definitions. [Statutory Authority: 1977 ex. sess. c 1. 78-08-026 (Order DE 77-33), § 173-164-030, filed 7/13/78.] Repealed by 93-14-116 (Order 92-54), filed 7/2/93, effective 8/2/93.

173-164-040 Rates of charge. [Statutory Authority: 1977 ex. sess. c 1. 78-08-026 (Order DE 77-33), § 173-164-040, filed 7/13/78.] Repealed by 93-14-116 (Order 92-54), filed 7/2/93, effective 8/2/93.

173-164-050 Determination of rate. [Statutory Authority: Chapters 43.83B and 43.27A RCW. 88-13-037 (Order 88-11), § 173-164-050, filed 6/9/88. Statutory Authority: RCW 43.83B.345. 81-07-037 (Order DE 81-5), § 173-164-050, filed 3/13/81; 80-09-052 (Order DE 80-28), § 173-164-050, filed 7/14/80. Statutory Authority: 1977 ex. sess. c 1. 78-08-026 (Order DE 77-33), § 173-164-050, filed 7/13/78.] Repealed by 93-14-116 (Order 92-54), filed 7/2/93, effective 8/2/93.

173-164-060 Payment schedule. [Statutory Authority: 1977 ex. sess. c 1. 78-08-026 (Order DE 77-33), § 173-164-060, filed 7/13/78.] Repealed by 93-14-116 (Order 92-54), filed 7/2/93, effective 8/2/93.

173-164-070 Measurement of water. [Statutory Authority: 1977 ex. sess. c 1. 78-08-026 (Order DE 77-33), § 173-164-070, filed 7/13/78.] Repealed by 93-14-116 (Order 92-54), filed 7/2/93, effective 8/2/93.

173-164-080 Regulation review. [Statutory Authority: Chapters 43.83B and 43.27A RCW. 88-13-037 (Order 88-11), § 173-164-080, filed 6/9/88.] Repealed by 93-14-116 (Order 92-54), filed 7/2/93, effective 8/2/93.

Chapter 173-201
WATER QUALITY STANDARDS FOR SURFACE WATERS OF THE STATE OF WASHINGTON

173-201-010 Introduction. [Statutory Authority: RCW 90.48.035 and 90.48.260. 88-02-058 (Order 87-6), § 173-201-010, filed 1/6/88. Statutory Authority: RCW 90.48.035. 82-12-078 (Order DE 82-12), § 173-201-010, filed 6/2/82; 78-02-043 (Order DE 77-32), § 173-201-010, filed 1/17/78; Order 73-4, § 173-201-010, filed 7/6/73.] Repealed by 92-24-037 (Order 92-29), filed 11/25/92, effective 12/26/92. Statutory Authority: Chapter 90.48 RCW.

173-201-020 Water use and quality criteria. [Statutory Authority: RCW 90.48.035. 78-02-043 (Order DE 77-32), § 173-201-020, filed 1/17/78; Order 73-4, § 173-201-020, filed 7/6/73.] Repealed by 82-12-078 (Order DE 82-12), filed 6/2/82. Statutory Authority: RCW 90.48.035.

173-201-025 Definitions. [Statutory Authority: RCW 90.48.035 and 90.48.260. 88-02-058 (Order 87-6), § 173-201-025, filed 1/6/88. Statutory Authority: RCW 90.48.035. 82-12-078 (Order DE 82-12), § 173-201-025, filed 6/2/82; 78-02-043 (Order DE 77-32), § 173-201-025, filed 1/17/78.] Repealed by 92-24-037 (Order 92-29), filed 11/25/92, effective 12/26/92. Statutory Authority: Chapter 90.48 RCW.

173-201-030 Water use and quality criteria—General water use and criteria classes. [Order 73-4, § 173-201-030, filed 7/6/73.] Repealed by 78-02-043 (Order DE 77-32), filed 1/17/78. Statutory Authority: RCW 90.48.035.

173-201-035 General considerations. [Statutory Authority: RCW 90.48.035 and 90.48.260. 88-02-058 (Order 87-6), § 173-201-035, filed 1/6/88. Statutory Authority: RCW 90.48.035. 82-12-078 (Order DE 82-12), § 173-201-035, filed 6/2/82; 78-02-043 (Order DE 77-32), § 173-201-035, filed 1/17/78.] Repealed by 92-24-037 (Order 92-29), filed 11/25/92, effective 12/26/92. Statutory Authority: Chapter 90.48 RCW.

173-201-040 Water use and quality criteria—General considerations. [Order 73-4, § 173-201-040, filed 7/6/73.] Repealed by 78-02-043 (Order DE 77-32), filed 1/17/78. Statutory Authority: RCW 90.48.035.

173-201-045 General water use and criteria classes. [Statutory Authority: RCW 90.48.035 and 90.48.260. 88-02-058 (Order 87-6), § 173-201-045, filed 1/6/88. Statutory Authority: RCW 90.48.035. 82-12-078 (Order DE 82-12), § 173-201-045, filed 6/2/82; 78-02-043 (Order DE 77-32), § 173-201-045, filed 1/17/78.] Repealed by 92-24-037 (Order 92-29), filed 11/25/92, effective 12/26/92. Statutory Authority: Chapter 90.48 RCW.

173-201-047 Toxic substances. [Statutory Authority: RCW 90.48.035 and 90.48.260. 88-02-058 (Order 87-6), § 173-201-047, filed 1/6/88.] Repealed by 92-24-037 (Order 92-29), filed 11/25/92, effective 12/26/92. Statutory Authority: Chapter 90.48 RCW.

173-201-050 Characteristic uses to be protected. [Statutory Authority: RCW 90.48.035. 78-02-043 (Order DE 77-32), § 173-201-050, filed 1/17/78; Order 73-4, § 173-201-050, filed 7/6/73.] Repealed by 82-12-078 (Order DE 82-12), filed 6/2/82. Statutory Authority: RCW 90.48.035.

173-201-060 Water course classification. [Order 73-4, § 173-201-060, filed 7/6/73.] Repealed by 78-02-043 (Order DE 77-32), filed 1/17/78. Statutory Authority: RCW 90.48.035.

173-201-070 General classifications. [Statutory Authority: RCW 90.48.035 and 90.48.260. 88-02-058 (Order 87-6), § 173-201-070, filed 1/6/88. Statutory Authority: RCW 90.48.035. 82-12-078 (Order DE 82-12), § 173-201-070, filed 6/2/82; 78-02-043 (Order DE 77-32), § 173-201-070, filed 1/17/78; Order 73-4, § 173-201-070, filed 7/6/73.] Repealed by 92-24-037 (Order 92-29), filed 11/25/92, effective 12/26/92. Statutory Authority: Chapter 90.48 RCW.

173-201-080 Specific classifications—Freshwater. [Statutory Authority: RCW 90.48.035 and 90.48.260. 88-02-058 (Order 87-6), § 173-201-080, filed 1/6/88. Statutory Authority: RCW 90.48.035. 82-12-078 (Order DE 82-12), § 173-201-080, filed 6/2/82; 78-02-043 (Order DE 77-32), § 173-201-080, filed 1/17/78; Order DE 73-22, § 173-201-080, filed 11/16/73; Order 73-4, § 173-201-080, filed 7/6/73.] Repealed by 92-24-037 (Order 92-29), filed 11/25/92, effective 12/26/92. Statutory Authority: Chapter 90.48 RCW.

173-201-085 Specific classifications—Marine water. [Statutory Authority: RCW 90.48.035. 82-12-078 (Order DE 82-12), § 173-201-085, filed 6/2/82; 78-02-043 (Order DE 77-32), § 173-201-085, filed 1/17/78.] Repealed by 92-24-037 (Order 92-29), filed 11/25/92, effective 12/26/92. Statutory Authority: Chapter 90.48 RCW.

173-201-090 Achievement considerations. [Statutory Authority: RCW 90.48.035 and 90.48.260. 88-02-058 (Order 87-6), § 173-201-090, filed 1/6/88. Statutory Authority: RCW 90.48.035. 82-12-078 (Order DE 82-12), § 173-201-090, filed 6/2/82; 78-02-043 (Order DE 77-32), § 173-201-090, filed 1/17/78; Order 73-4, § 173-201-090, filed 7/6/73.] Repealed by 92-24-037 (Order 92-29), filed 11/25/92, effective 12/26/92. Statutory Authority: Chapter 90.48 RCW.

173-201-100 Implementation. [Statutory Authority: RCW 90.48.035 and 90.48.260. 88-02-058 (Order 87-6), § 173-201-100, filed 1/6/88. Statutory Authority: RCW 90.48.035. 78-02-043 (Order DE 77-32), § 173-201-100, filed 1/17/78; Order 73-4, § 173-201-100, filed 7/6/73.] Repealed by 92-24-037 (Order 92-29), filed 11/25/92, effective 12/26/92. Statutory Authority: Chapter 90.48 RCW.

173-201-110 Surveillance. [Statutory Authority: RCW 90.48.035. 78-02-043 (Order DE 77-32), § 173-201-110, filed 1/17/78; Order 73-4, § 173-201-110, filed 7/6/73.] Repealed by 92-24-037 (Order 92-29), filed 11/25/92, effective 12/26/92. Statutory Authority: Chapter 90.48 RCW.

173-201-120 Enforcement. [Statutory Authority: RCW 90.48.035. 82-12-078 (Order DE 82-12), § 173-201-120, filed 6/2/82; 78-02-043 (Order DE 77-32), § 173-201-120, filed 1/17/78; Order 73-4, § 173-201-120, filed 7/6/73.] Repealed by 92-24-037 (Order 92-29), filed 11/25/92, effective 12/26/92. Statutory Authority: Chapter 90.48 RCW.

173-201-130 Definitions. [Order 73-4, § 173-201-130, filed 7/6/73.] Repealed by 78-02-043 (Order DE 77-32), filed 1/17/78. Statutory Authority: RCW 90.48.035.

173-201-140 Miscellaneous. [Statutory Authority: RCW 90.48.035. 78-02-043 (Order DE 77-32), § 173-201-140, filed 1/17/78; Order 73-4, § 173-201-140, filed 7/6/73.]

Repealed by 82-12-078 (Order DE 82-12), filed 6/2/82. Statutory Authority: RCW 90.48.035.

Chapter 173-202
WASHINGTON FOREST PRACTICES RULES AND REGULATIONS TO PROTECT WATER QUALITY

173-202-010 Authority. [Order DE 76-32, § 173-202-010, filed 7/13/76.] Repealed by 00-11-005 (Order 00-04), filed 5/4/00, effective 6/4/00.

173-202-020 Certain WAC sections adopted by reference. [Statutory Authority: RCW 90.48.420, 76.09.040 and chapter 34.05 RCW. 98-08-058 (Order 97-46), § 173-202-020, filed 3/30/98, effective 4/30/98. Statutory Authority: RCW 90.48.420, 76.09.040, [76.09.]050 and chapter 34.05 RCW. 98-07-026 (Order 97-41), § 173-202-020, filed 3/10/98, effective 4/10/98. Statutory Authority: RCW 90.48.420 and 76.09.040. 94-17-011, § 173-202-020, filed 8/8/94, effective 9/8/94; 93-11-062, § 173-202-020, filed 5/13/93, effective 6/13/93; 93-01-091 (Order 92-51), § 173-202-020, filed 12/16/92, effective 1/16/93. Statutory Authority: Chapters 90.48 and 76.09 RCW. 92-14-098, § 173-202-020, filed 6/30/92, effective 8/1/92. Statutory Authority: Chapter 76.09 RCW. 88-22-030 (Order 88-19), § 173-202-020, filed 10/27/88. Statutory Authority: RCW 76.09.040. 87-23-017 (Order 87-5), § 173-202-020, filed 11/10/87, effective 1/1/88; 83-15-045 (Order DE 82-37), § 173-202-020, filed 7/19/83; Order DE 76-32, § 173-202-020, filed 7/13/76.] Repealed by 00-11-005 (Order 00-04), filed 5/4/00, effective 6/4/00.

Chapter 173-223
INTERIM WASTEWATER DISCHARGE PERMIT FEES

173-223-015 Purpose and authority. [Statutory Authority: Chapter 43.21A RCW. 89-05-026 (Order 88-53), § 173-223-015, filed 2/13/89; 88-12-035 (Order 88-8), § 173-223-015, filed 5/26/88, effective 7/1/88.] Repealed by 89-12-027 and 97-22-043 (Orders 89-8 and 97-26), filed 5/31/89 and 10/31/97, effective 12/1/97. Statutory Authority: Chapter 43.21A RCW.

173-223-020 Applicability. [Statutory Authority: Chapter 43.21A RCW. 88-12-035 (Order 88-8), § 173-223-020, filed 5/26/88, effective 7/1/88.] Repealed by 89-12-027 and 97-22-043 (Orders 89-8 and 97-26), filed 5/31/89 and 10/31/97, effective 12/1/97. Statutory Authority: Chapter 43.21A RCW.

173-223-030 Definitions. [Statutory Authority: Chapter 43.21A RCW. 89-05-026 (Order 88-53), § 173-223-030, filed 2/13/89; 88-12-035 (Order 88-8), § 173-223-030, filed 5/26/88, effective 7/1/88.] Repealed by 89-12-027 and 97-22-043 (Orders 89-8 and 97-26), filed 5/31/89 and 10/31/97, effective 12/1/97. Statutory Authority: Chapter 43.21A RCW.

173-223-040 Permit fee schedule. [Statutory Authority: Chapter 43.21A RCW. 89-05-026 (Order 88-53), § 173-223-040, filed 2/13/89; 88-12-035 (Order 88-8), § 173-223-040, filed 5/26/88, effective 7/1/88.] Repealed by 89-12-027 and 97-22-043 (Orders 89-8 and 97-26), filed 5/31/89 and 10/31/97, effective 12/1/97. Statutory Authority: Chapter 43.21A RCW.

173-223-050 Permit fee payments. [Statutory Authority: Chapter 43.21A RCW. 89-05-026 (Order 88-53), § 173-223-050, filed 2/13/89; 88-12-035 (Order 88-8), § 173-223-050, filed 5/26/88, effective 7/1/88.] Repealed by 89-12-027 and 97-22-043 (Orders 89-8 and 97-26), filed 5/31/89 and 10/31/97, effective 12/1/97. Statutory Authority: Chapter 43.21A RCW.

173-223-060 Permits issued by other governmental agencies. [Statutory Authority: Chapter 43.21A RCW. 88-12-035 (Order 88-8), § 173-223-060, filed 5/26/88, effective 7/1/88.] Repealed by 89-12-027 and 97-22-043 (Orders 89-8 and 97-26), filed 5/31/89 and 10/31/97, effective 12/1/97. Statutory Authority: Chapter 43.21A RCW.

173-223-070 Credits. [Statutory Authority: Chapter 43.21A RCW. 89-05-026 (Order 88-53), § 173-223-070, filed 2/13/89; 88-12-035 (Order 88-8), § 173-223-070, filed 5/26/88, effective 7/1/88.] Repealed by 89-12-027 and 97-22-043 (Orders 89-8 and 97-26), filed 5/31/89 and 10/31/97, effective 12/1/97. Statutory Authority: Chapter 43.21A RCW.

173-223-080 Transfer of ownership or control. [Statutory Authority: Chapter 43.21A RCW. 88-12-035 (Order 88-8), § 173-223-080, filed 5/26/88, effective 7/1/88.] Repealed by 89-12-027 and 97-22-043 (Orders 89-8 and 97-26), filed 5/31/89 and 10/31/97, effective 12/1/97. Statutory Authority: Chapter 43.21A RCW.

173-223-090 Administrative appeals to the director. [Statutory Authority: Chapter 43.21A RCW. 89-05-026 (Order 88-53), § 173-223-090, filed 2/13/89; 88-12-035 (Order 88-8), § 173-223-090, filed 5/26/88, effective 7/1/88.] Repealed by 89-12-027 and 97-22-043 (Orders 89-8 and 97-26), filed 5/31/89 and 10/31/97, effective 12/1/97. Statutory Authority: Chapter 43.21A RCW.

173-223-100 Deposits. [Statutory Authority: Chapter 43.21A RCW. 88-12-035 (Order 88-8), § 173-223-100, filed 5/26/88, effective 7/1/88.] Repealed by 89-12-027 and 97-22-043 (Orders 89-8 and 97-26), filed 5/31/89 and 10/31/97, effective 12/1/97. Statutory Authority: Chapter 43.21A RCW.

173-223-110 Past due payments. [Statutory Authority: Chapter 43.21A RCW. 88-12-035 (Order 88-8), § 173-223-110, filed 5/26/88, effective 7/1/88.] Repealed by 89-12-027 and 97-22-043 (Orders 89-8 and 97-26), filed 5/31/89 and 10/31/97, effective 12/1/97. Statutory Authority: Chapter 43.21A RCW.

Chapter 173-250
CONSTRUCTION GRANTS PROGRAM—PRIORITY RATING SYSTEM AND PROJECT PRIORITY LIST

173-250-010 Purpose and scope. [Statutory Authority: RCW 43.21A.080. 78-09-067 (Order DE 78-11), § 173-250-010, filed 8/24/78.] Repealed by 93-14-116 (Order 92-54), filed 7/2/93, effective 8/2/93.

173-250-020 Definitions. [Statutory Authority: RCW 43.21A.080. 78-09-067 (Order DE 78-11), § 173-250-020, filed 8/24/78.] Repealed by 93-14-116 (Order 92-54), filed 7/2/93, effective 8/2/93.

173-250-030 Development and approval of the system. [Statutory Authority: RCW 43.21A.080. 78-09-067 (Order DE 78-11), § 173-250-030, filed 8/24/78.] Repealed by 93-14-116 (Order 92-54), filed 7/2/93, effective 8/2/93.

173-250-040 Development and approval of the state project priority list. [Statutory Authority: RCW 43.21A.080. 78-09-067 (Order DE 78-11), § 173-250-040, filed 8/24/78.] Repealed by 93-14-116 (Order 92-54), filed 7/2/93, effective 8/2/93.

Chapter 173-301
REGULATIONS RELATING TO MINIMUM FUNCTIONAL STANDARDS FOR SOLID WASTE HANDLING

173-301-100 Authority and purpose. [Order DE 72-21, § 173-301-100, filed 10/26/72.] Repealed by 86-03-034 (Order 85-87), filed 1/10/86. Statutory Authority: Chapter 43.21A RCW.

173-301-101 Other agencies. [Order DE 72-21, § 173-301-101, filed 10/26/72.] Repealed by 86-03-034 (Order 85-87), filed 1/10/86. Statutory Authority: Chapter 43.21A RCW.

173-301-105 Effects on pollution, public health and safety. [Order DE 72-21, § 173-301-105, filed 10/26/72.] Repealed by 86-03-034 (Order 85-87), filed 1/10/86. Statutory Authority: Chapter 43.21A RCW.

173-301-110 Definitions. [Statutory Authority: RCW 70.95.060 and chapter 70.95 RCW. 83-09-017 (Order DE 83-2), § 173-301-110, filed 4/13/83; Order DE 72-21, § 173-301-110, filed 10/26/72.] Repealed by 86-03-034 (Order 85-87), filed 1/10/86. Statutory Authority: Chapter 43.21A RCW.

173-301-120 Solid waste storage. [Order DE 72-21, § 173-301-120, filed 10/26/72.] Repealed by 86-03-034 (Order 85-87), filed 1/10/86. Statutory Authority: Chapter 43.21A RCW.

173-301-121 Solid waste storage—Garbage. [Order DE 72-21, § 173-301-121, filed 10/26/72.] Repealed by 86-03-034 (Order 85-87), filed 1/10/86. Statutory Authority: Chapter 43.21A RCW.

173-301-122 Solid waste storage—Light material. [Order DE 72-21, § 173-301-122, filed 10/26/72.] Repealed by 86-03-034 (Order 85-87), filed 1/10/86. Statutory Authority: Chapter 43.21A RCW.

173-301-123 Solid waste storage—Hazardous wastes. [Order DE 72-21, § 173-301-123, filed 10/26/72.] Repealed by 86-03-034 (Order 85-87), filed 1/10/86. Statutory Authority: Chapter 43.21A RCW.

173-301-124 Solid waste storage—Agricultural wastes. [Order DE 72-21, § 173-301-124, filed 10/26/72.] Repealed by 86-03-034 (Order 85-87), filed 1/10/86. Statutory Authority: Chapter 43.21A RCW.

173-301-125 Solid waste storage—Problem wastes. [Order DE 72-21, § 173-301-125, filed 10/26/72.] Repealed by 86-03-034 (Order 85-87), filed 1/10/86. Statutory Authority: Chapter 43.21A RCW.

173-301-126 Solid waste storage—Storage areas and containers. [Order DE 72-21, § 173-301-126, filed 10/26/72.] Repealed by 86-03-034 (Order 85-87), filed 1/10/86. Statutory Authority: Chapter 43.21A RCW.

173-301-140 Collection and transportation. [Order DE 72-21, § 173-301-140, filed 10/26/72.] Repealed by 86-03-034 (Order 85-87), filed 1/10/86. Statutory Authority: Chapter 43.21A RCW.

173-301-141 Collection and transportation—Prevention of nuisances. [Order DE 72-21, § 173-301-141, filed 10/26/72.] Repealed by 86-03-034 (Order 85-87), filed 1/10/86. Statutory Authority: Chapter 43.21A RCW.

173-301-142 Collection and transportation—Vehicle construction. [Order DE 72-21, § 173-301-142, filed 10/26/72.] Repealed by 86-03-034 (Order 85-87), filed 1/10/86. Statutory Authority: Chapter 43.21A RCW.

173-301-143 Collection and transportation—Vehicle spillage. [Order DE 72-21, § 173-301-143, filed 10/26/72.] Repealed by 86-03-034 (Order 85-87), filed 1/10/86. Statutory Authority: Chapter 43.21A RCW.

173-301-150 Transfer station. [Order DE 72-21, § 173-301-150, filed 10/26/72.] Repealed by 86-03-034 (Order 85-87), filed 1/10/86. Statutory Authority: Chapter 43.21A RCW.

173-301-151 Transfer station—Application and plans. [Order DE 72-21, § 173-301-151, filed 10/26/72.] Repealed by 86-03-034 (Order 85-87), filed 1/10/86. Statutory Authority: Chapter 43.21A RCW.

173-301-152 Transfer station—Architecture and landscaping. [Order DE 72-21, § 173-301-152, filed 10/26/72.] Repealed by 86-03-034 (Order 85-87), filed 1/10/86. Statutory Authority: Chapter 43.21A RCW.

173-301-153 Transfer station—Pollution control and cleanliness. [Order DE 72-21, § 173-301-153, filed 10/26/72.] Repealed by 86-03-034 (Order 85-87), filed 1/10/86. Statutory Authority: Chapter 43.21A RCW.

173-301-154 Transfer station—Roads. [Order DE 72-21, § 173-301-154, filed 10/26/72.] Repealed by 86-03-034 (Order 85-87), filed 1/10/86. Statutory Authority: Chapter 43.21A RCW.

173-301-155 Transfer station—Identification. [Order DE 72-21, § 173-301-155, filed 10/26/72.] Repealed by 86-03-034 (Order 85-87), filed 1/10/86. Statutory Authority: Chapter 43.21A RCW.

173-301-156 Transfer station—Fire protection. [Order DE 72-21, § 173-301-156, filed 10/26/72.] Repealed by 86-03-034 (Order 85-87), filed 1/10/86. Statutory Authority: Chapter 43.21A RCW.

173-301-157 Transfer station—Communications. [Order DE 72-21, § 173-301-157, filed 10/26/72.] Repealed by 86-03-034 (Order 85-87), filed 1/10/86. Statutory Authority: Chapter 43.21A RCW.

173-301-158 Transfer station—Employee facilities. [Order DE 72-21, § 173-301-158, filed 10/26/72.] Repealed by 86-03-034 (Order 85-87), filed 1/10/86. Statutory Authority: Chapter 43.21A RCW.

173-301-159 Transfer station—Attendant. [Order DE 72-21, § 173-301-159, filed 10/26/72.] Repealed by 86-03-034 (Order 85-87), filed 1/10/86. Statutory Authority: Chapter 43.21A RCW.

173-301-160 Transfer station—Safety. [Order DE 72-21, § 173-301-160, filed 10/26/72.] Repealed by 86-03-034 (Order 85-87), filed 1/10/86. Statutory Authority: Chapter 43.21A RCW.

173-301-161 Transfer station—Vector control. [Order DE 72-21, § 173-301-161, filed 10/26/72.] Repealed by 86-03-034 (Order 85-87), filed 1/10/86. Statutory Authority: Chapter 43.21A RCW.

173-301-162 Transfer station—Records. [Order DE 72-21, § 173-301-162, filed 10/26/72.] Repealed by 86-03-034 (Order 85-87), filed 1/10/86. Statutory Authority: Chapter 43.21A RCW.

173-301-163 Transfer station—Confined tipping. [Order DE 72-21, § 173-301-163, filed 10/26/72.] Repealed by 86-03-034 (Order 85-87), filed 1/10/86. Statutory Authority: Chapter 43.21A RCW.

173-301-164 Transfer station—Scavenging. [Order DE 72-21, § 173-301-164, filed 10/26/72.] Repealed by 86-03-034 (Order 85-87), filed 1/10/86. Statutory Authority: Chapter 43.21A RCW.

173-301-180 Solid waste disposal site. [Statutory Authority: RCW 70.95.060 and chapter 70.95 RCW. 83-09-017 (Order DE 83-2), § 173-301-180, filed 4/13/83; Order DE 72-21, § 173-301-180, filed 10/26/72.] Repealed by 86-03-034 (Order 85-87), filed 1/10/86. Statutory Authority: Chapter 43.21A RCW.

173-301-181 Solid waste disposal site—Application and plans. [Statutory Authority: RCW 70.95.060 and chapter 70.95 RCW. 83-09-017 (Order DE 83-2), § 173-301-181, filed 4/13/83; Order DE 72-21, § 173-301-181, filed 10/26/72.] Repealed by 86-03-034 (Order 85-87), filed 1/10/86. Statutory Authority: Chapter 43.21A RCW.

173-301-182 Solid waste disposal site—Disposal site design, architecture and landscaping. [Order DE 72-21, § 173-301-182, filed 10/26/72.] Repealed by 86-03-034 (Order 85-87), filed 1/10/86. Statutory Authority: Chapter 43.21A RCW.

173-301-183 Solid waste disposal site—Pollution control. [Order DE 72-21, § 173-301-183, filed 10/26/72.] Repealed by 86-03-034 (Order 85-87), filed 1/10/86. Statutory Authority: Chapter 43.21A RCW.

173-301-184 Solid waste disposal site—Roads. [Order DE 72-21, § 173-301-184, filed 10/26/72.] Repealed by 86-03-034 (Order 85-87), filed 1/10/86. Statutory Authority: Chapter 43.21A RCW.

173-301-185 Solid waste disposal site—Gate. [Order DE 72-21, § 173-301-185, filed 10/26/72.] Repealed by 86-03-034 (Order 85-87), filed 1/10/86. Statutory Authority: Chapter 43.21A RCW.

173-301-186 Solid waste disposal site—Employee facilities. [Order DE 72-21, § 173-301-186, filed 10/26/72.] Repealed by 86-03-034 (Order 85-87), filed 1/10/86. Statutory Authority: Chapter 43.21A RCW.

173-301-187 Solid waste disposal site—Disposal site identification. [Order DE 72-21, § 173-301-187, filed 10/26/72.] Repealed by 86-03-034 (Order 85-87), filed 1/10/86. Statutory Authority: Chapter 43.21A RCW.

173-301-188 Solid waste disposal site—Fire protection. [Order DE 72-21, § 173-301-188, filed 10/26/72.] Repealed by 86-03-034 (Order 85-87), filed 1/10/86. Statutory Authority: Chapter 43.21A RCW.

173-301-189 Solid waste disposal site—Communication. [Order DE 72-21, § 173-301-189, filed 10/26/72.] Repealed by 86-03-034 (Order 85-87), filed 1/10/86. Statutory Authority: Chapter 43.21A RCW.

173-301-190 Solid waste disposal site—Confined unloading. [Order DE 72-21, § 173-301-190, filed 10/26/72.] Repealed by 86-03-034 (Order 85-87), filed 1/10/86. Statutory Authority: Chapter 43.21A RCW.

173-301-191 Solid waste disposal site—Reclamation. [Order DE 72-21, § 173-301-191, filed 10/26/72.] Repealed by 86-03-034 (Order 85-87), filed 1/10/86. Statutory Authority: Chapter 43.21A RCW.

173-301-192 Solid waste disposal site—Scavenging. [Order DE 72-21, § 173-301-192, filed 10/26/72.] Repealed by 86-03-034 (Order 85-87), filed 1/10/86. Statutory Authority: Chapter 43.21A RCW.

173-301-193 Solid waste disposal site—Attendant. [Order DE 72-21, § 173-301-193, filed 10/26/72.] Repealed by 86-03-034 (Order 85-87), filed 1/10/86. Statutory Authority: Chapter 43.21A RCW.

173-301-194 Solid waste disposal site—Safety. [Order DE 72-21, § 173-301-194, filed 10/26/72.] Repealed by 86-03-034 (Order 85-87), filed 1/10/86. Statutory Authority: Chapter 43.21A RCW.

173-301-195 Solid waste disposal site—Vector control. [Order DE 72-21, § 173-301-195, filed 10/26/72.] Repealed by 86-03-034 (Order 85-87), filed 1/10/86. Statutory Authority: Chapter 43.21A RCW.

173-301-196 Solid waste disposal site—Light material control. [Order DE 72-21, § 173-301-196, filed 10/26/72.] Repealed by 86-03-034 (Order 85-87), filed 1/10/86. Statutory Authority: Chapter 43.21A RCW.

173-301-197 Solid waste disposal site—Records. [Order DE 72-21, § 173-301-197, filed 10/26/72.] Repealed by 86-03-034 (Order 85-87), filed 1/10/86. Statutory Authority: Chapter 43.21A RCW.

173-301-300 Sanitary landfill, leachate control. [Order DE 72-21, § 173-301-300, filed 10/26/72.] Repealed by 86-03-034 (Order 85-87), filed 1/10/86. Statutory Authority: Chapter 43.21A RCW.

173-301-301 Sanitary landfill, leachate control—Pollution prevention. [Order DE 72-21, § 173-301-301, filed 10/26/72.]

Repealed by 86-03-034 (Order 85-87), filed 1/10/86. Statutory Authority: Chapter 43.21A RCW.

173-301-302 Sanitary landfill, leachate control—Gas venting. [Order DE 72-21, § 173-301-302, filed 10/26/72.] Repealed by 86-03-034 (Order 85-87), filed 1/10/86. Statutory Authority: Chapter 43.21A RCW.

173-301-303 Sanitary landfill, leachate control—Single layer compaction. [Order DE 72-21, § 173-301-303, filed 10/26/72.] Repealed by 86-03-034 (Order 85-87), filed 1/10/86. Statutory Authority: Chapter 43.21A RCW.

173-301-304 Sanitary landfill, leachate control—Daily cover. [Order DE 72-21, § 173-301-304, filed 10/26/72.] Repealed by 86-03-034 (Order 85-87), filed 1/10/86. Statutory Authority: Chapter 43.21A RCW.

173-301-305 Sanitary landfill, leachate control—Final cover. [Order DE 72-21, § 173-301-305, filed 10/26/72.] Repealed by 86-03-034 (Order 85-87), filed 1/10/86. Statutory Authority: Chapter 43.21A RCW.

173-301-306 Sanitary landfill, leachate control—Final surface. [Order DE 72-21, § 173-301-306, filed 10/26/72.] Repealed by 86-03-034 (Order 85-87), filed 1/10/86. Statutory Authority: Chapter 43.21A RCW.

173-301-307 Sanitary landfill, leachate control—Equipment. [Order DE 72-21, § 173-301-307, filed 10/26/72.] Repealed by 86-03-034 (Order 85-87), filed 1/10/86. Statutory Authority: Chapter 43.21A RCW.

173-301-308 Sanitary landfill, leachate control—Completion inspection. [Order DE 72-21, § 173-301-308, filed 10/26/72.] Repealed by 86-03-034 (Order 85-87), filed 1/10/86. Statutory Authority: Chapter 43.21A RCW.

173-301-309 Sanitary landfill, leachate control—Recurrent inspection and maintenance. [Order DE 72-21, § 173-301-309, filed 10/26/72.] Repealed by 86-03-034 (Order 85-87), filed 1/10/86. Statutory Authority: Chapter 43.21A RCW.

173-301-310 Sanitary landfill, leachate control—Recording with county auditor. [Order DE 72-21, § 173-301-310, filed 10/26/72.] Repealed by 86-03-034 (Order 85-87), filed 1/10/86. Statutory Authority: Chapter 43.21A RCW.

173-301-320 Sludge management. [Statutory Authority: RCW 70.95.060 and chapter 70.95 RCW. 83-09-017 (Order DE 83-2), § 173-301-320, filed 4/13/83.] Repealed by 86-03-034 (Order 85-87), filed 1/10/86. Statutory Authority: Chapter 43.21A RCW.

173-301-350 Incinerator, applicability of air pollution standards. [Order DE 72-21, § 173-301-350, filed 10/26/72.] Repealed by 86-03-034 (Order 85-87), filed 1/10/86. Statutory Authority: Chapter 43.21A RCW.

173-301-351 Incinerator, applicability of air pollution standards—Incoming storage. [Order DE 72-21, § 173-301-351, filed 10/26/72.] Repealed by 86-03-034 (Order 85-87), filed 1/10/86. Statutory Authority: Chapter 43.21A RCW.

173-301-352 Incinerator, applicability of air pollution standards—Preuse inspection and performance tests. [Order DE 72-21, § 173-301-352, filed 10/26/72.] Repealed by 86-03-034 (Order 85-87), filed 1/10/86. Statutory Authority: Chapter 43.21A RCW.

173-301-353 Incinerator, applicability of air pollution standards—Residue disposal. [Order DE 72-21, § 173-301-353, filed 10/26/72.] Repealed by 86-03-034 (Order 85-87), filed 1/10/86. Statutory Authority: Chapter 43.21A RCW.

173-301-354 Incinerator, applicability of air pollution standards—Emergency disposal. [Order DE 72-21, § 173-301-354, filed 10/26/72.] Repealed by 86-03-034 (Order 85-87), filed 1/10/86. Statutory Authority: Chapter 43.21A RCW.

173-301-355 Incinerator, applicability of air pollution standards—Drains. [Order DE 72-21, § 173-301-355, filed 10/26/72.] Repealed by 86-03-034 (Order 85-87), filed 1/10/86. Statutory Authority: Chapter 43.21A RCW.

173-301-356 Incinerator, applicability of air pollution standards—Disposal of process water. [Order DE 72-21, § 173-301-356, filed 10/26/72.] Repealed by 86-03-034 (Order 85-87), filed 1/10/86. Statutory Authority: Chapter 43.21A RCW.

173-301-357 Incinerator, applicability of air pollution standards—Recording pyrometer. [Order DE 72-21, § 173-301-357, filed 10/26/72.] Repealed by 86-03-034 (Order 85-87), filed 1/10/86. Statutory Authority: Chapter 43.21A RCW.

173-301-358 Incinerator, applicability of air pollution standards—Safety. [Order DE 72-21, § 173-301-358, filed 10/26/72.] Repealed by 86-03-034 (Order 85-87), filed 1/10/86. Statutory Authority: Chapter 43.21A RCW.

173-301-359 Incinerator, applicability of air pollution standards—Cleaning. [Order DE 72-21, § 173-301-359, filed 10/26/72.] Repealed by 86-03-034 (Order 85-87), filed 1/10/86. Statutory Authority: Chapter 43.21A RCW.

173-301-400 Compost plant, odorous materials. [Order DE 72-21, § 173-301-400, filed 10/26/72.] Repealed by 86-03-034 (Order 85-87), filed 1/10/86. Statutory Authority: Chapter 43.21A RCW.

173-301-401 Compost plant, odorous materials—Safety. [Order DE 72-21, § 173-301-401, filed 10/26/72.] Repealed by 86-03-034 (Order 85-87), filed 1/10/86. Statutory Authority: Chapter 43.21A RCW.

173-301-402 Compost plant, odorous materials—Byproducts. [Order DE 72-21, § 173-301-402, filed 10/26/72.] Repealed by 86-03-034 (Order 85-87), filed 1/10/86. Statutory Authority: Chapter 43.21A RCW.

173-301-450 Reclamation site. [Order DE 72-21, § 173-301-450, filed 10/26/72.] Repealed by 86-03-034 (Order 85-87), filed 1/10/86. Statutory Authority: Chapter 43.21A RCW.

173-301-451 Reclamation site—Application and plans. [Order DE 72-21, § 173-301-451, filed 10/26/72.] Repealed by 86-03-034 (Order 85-87), filed 1/10/86. Statutory Authority: Chapter 43.21A RCW.

173-301-452 Reclamation site—Architecture and landscaping. [Order DE 72-21, § 173-301-452, filed 10/26/72.] Repealed by 86-03-034 (Order 85-87), filed 1/10/86. Statutory Authority: Chapter 43.21A RCW.

173-301-453 Reclamation site—Pollution control and cleanliness. [Order DE 72-21, § 173-301-453, filed 10/26/72.] Repealed by 86-03-034 (Order 85-87), filed 1/10/86. Statutory Authority: Chapter 43.21A RCW.

173-301-454 Reclamation site—Storage. [Order DE 72-21, § 173-301-454, filed 10/26/72.] Repealed by 86-03-034 (Order 85-87), filed 1/10/86. Statutory Authority: Chapter 43.21A RCW.

173-301-455 Reclamation site—Safety. [Order DE 72-21, § 173-301-455, filed 10/26/72.] Repealed by 86-03-034 (Order 85-87), filed 1/10/86. Statutory Authority: Chapter 43.21A RCW.

173-301-456 Reclamation site—Employee facilities. [Order DE 72-21, § 173-301-456, filed 10/26/72.] Repealed by 86-03-034 (Order 85-87), filed 1/10/86. Statutory Authority: Chapter 43.21A RCW.

173-301-457 Reclamation site—Records. [Order DE 72-21, § 173-301-457, filed 10/26/72.] Repealed by 86-03-034 (Order 85-87), filed 1/10/86. Statutory Authority: Chapter 43.21A RCW.

173-301-500 Other methods of solid waste handling, processing and disposal. [Order DE 72-21, § 173-301-500, filed 10/26/72.] Repealed by 86-03-034 (Order 85-87), filed 1/10/86. Statutory Authority: Chapter 43.21A RCW.

173-301-610 Nonconforming sites and facilities. [Order DE 72-21, § 173-301-610, filed 10/26/72.] Repealed by 86-03-034 (Order 85-87), filed 1/10/86. Statutory Authority: Chapter 43.21A RCW.

173-301-611 Abandoned disposal sites. [Order DE 72-21, § 173-301-611, filed 10/26/72.] Repealed by 86-03-034 (Order 85-87), filed 1/10/86. Statutory Authority: Chapter 43.21A RCW.

173-301-625 Enforcement. [Order DE 72-21, § 173-301-625, filed 10/26/72.] Repealed by 86-03-034 (Order 85-87), filed 1/10/86. Statutory Authority: Chapter 43.21A RCW.

173-301-626 Inspection. [Order DE 72-21, § 173-301-626, filed 10/26/72.] Repealed by 86-03-034 (Order 85-87), filed 1/10/86. Statutory Authority: Chapter 43.21A RCW.

Chapter 173-302
HAZARDOUS WASTE REGULATION

173-302-010 Purpose. [Order DE 77-34, § 173-302-010, filed 12/29/77.] Repealed by 82-05-023 (Order DE 81-33), filed 2/10/82. Statutory Authority: Chapter 70.105 RCW and RCW 70.95.260. Later promulgation, see WAC 173-303-010.

173-302-020 Applicability. [Order DE 77-34, § 173-302-020, filed 12/29/77.] Repealed by 82-05-023 (Order DE 81-33), filed 2/10/82. Statutory Authority: Chapter 70.105 RCW and RCW 70.95.260. Later promulgation, see WAC 173-303-020.

173-302-030 Abbreviations. [Order DE 77-34, § 173-302-030, filed 12/29/77.] Repealed by 82-05-023 (Order DE 81-33), filed 2/10/82. Statutory Authority: Chapter 70.105

RCW and RCW 70.95.260. Later promulgation, see WAC 173-303-030.

173-302-040 Definitions. [Order DE 77-34, § 173-302-040, filed 12/29/77.] Repealed by 82-05-023 (Order DE 81-33), filed 2/10/82. Statutory Authority: Chapter 70.105 RCW and RCW 70.95.260. Later promulgation, see WAC 173-303-040.

173-302-050 Conference. [Order DE 77-34, § 173-302-050, filed 12/29/77.] Repealed by 82-05-023 (Order DE 81-33), filed 2/10/82. Statutory Authority: Chapter 70.105 RCW and RCW 70.95.260.

173-302-060 Imminent hazard. [Order DE 77-34, § 173-302-060, filed 12/29/77.] Repealed by 82-05-023 (Order DE 81-33), filed 2/10/82. Statutory Authority: Chapter 70.105 RCW and RCW 70.95.260. Later promulgation, see WAC 173-303-050.

173-302-070 Designation of EHW. [Order DE 77-34, § 173-302-070, filed 12/29/77.] Repealed by 82-05-023 (Order DE 81-33), filed 2/10/82. Statutory Authority: Chapter 70.105 RCW and RCW 70.95.260. Later promulgation, see chapter 173-303 WAC.

173-302-080 Categorization. [Order DE 77-34, § 173-302-080, filed 12/29/77.] Repealed by 82-05-023 (Order DE 81-33), filed 2/10/82. Statutory Authority: Chapter 70.105 RCW and RCW 70.95.260. Later promulgation, see WAC 173-303-101.

173-302-090 Criteria for dangerous wastes (DW). [Order DE 77-34, § 173-302-090, filed 12/29/77.] Repealed by 82-05-023 (Order DE 81-33), filed 2/10/82. Statutory Authority: Chapter 70.105 RCW and RCW 70.95.260. Later promulgation, see chapter 173-303 WAC.

173-302-100 Criteria for extremely hazardous waste (EHW). [Order DE 77-34, § 173-302-100, filed 12/29/77.] Repealed by 82-05-023 (Order DE 81-33), filed 2/10/82. Statutory Authority: Chapter 70.105 RCW and RCW 70.95.260. Later promulgation, see chapter 173-303 WAC.

173-302-110 Hazardous due to toxicity to man and wildlife. [Order DE 77-34, § 173-302-110, filed 12/29/77.] Repealed by 82-05-023 (Order DE 81-33), filed 2/10/82. Statutory Authority: Chapter 70.105 RCW and RCW 70.95.260. Later promulgation, see chapter 173-303 WAC.

173-302-120 Hazardous due to quantity. [Order DE 77-34, § 173-302-120, filed 12/29/77.] Repealed by 82-05-023 (Order DE 81-33), filed 2/10/82. Statutory Authority: Chapter 70.105 RCW and RCW 70.95.260. Later promulgation, see WAC 173-303-102.

173-302-130 Hazardous due to persistence and potential hazard. [Order DE 77-34, § 173-302-130, filed 12/29/77.] Repealed by 82-05-023 (Order DE 81-33), filed 2/10/82. Statutory Authority: Chapter 70.105 RCW and RCW 70.95.260. Later promulgation, see chapter 173-303 WAC.

173-302-140 Containers. [Order DE 77-34, § 173-302-140, filed 12/29/77.] Repealed by 82-05-023 (Order DE 81-33), filed 2/10/82. Statutory Authority: Chapter 70.105 RCW and RCW 70.95.260. Later promulgation, see WAC 173-303-160.

173-302-150 Division, dilution, and accumulation. [Order DE 77-34, § 173-302-150, filed 12/29/77.] Repealed by 82-05-023 (Order DE 81-33), filed 2/10/82. Statutory Authority: Chapter 70.105 RCW and RCW 70.95.260. Later promulgation, see WAC 173-303-150.

173-302-160 Appeal of designation. [Order DE 77-34, § 173-302-160, filed 12/29/77.] Repealed by 82-05-023 (Order DE 81-33), filed 2/10/82. Statutory Authority: Chapter 70.105 RCW and RCW 70.95.260. Later promulgation, see chapter 173-303 WAC.

173-302-165 Disposal prohibited. [Statutory Authority: RCW 70.105.020 and 70.105.030. 78-08-021 (Order DE 78-14), § 173-302-165, filed 7/12/78.] Repealed by 82-05-023 (Order DE 81-33), filed 2/10/82. Statutory Authority: Chapter 70.105 RCW and RCW 70.95.260. Later promulgation, see chapter 173-303 WAC.

173-302-170 Requirements for generators. [Order DE 77-34, § 173-302-170, filed 12/29/77.] Repealed by 82-05-023 (Order DE 81-33), filed 2/10/82. Statutory Authority: Chapter 70.105 RCW and RCW 70.95.260. Later promulgation, see chapter 173-303 WAC.

173-302-180 Manifest procedures. [Order DE 77-34, § 173-302-180, filed 12/29/77.] Repealed by 82-05-023 (Order DE 81-33), filed 2/10/82. Statutory Authority: Chapter 70.105 RCW and RCW 70.95.260. Later promulgation, see WAC 173-303-180.

173-302-190 Manifest form. [Order DE 77-34, § 173-302-190, filed 12/29/77.] Repealed by 82-05-023 (Order DE 81-33), filed 2/10/82. Statutory Authority: Chapter 70.105 RCW and RCW 70.95.260. Later promulgation, see WAC 173-303-180.

173-302-200 Waste transporter requirements. [Order DE 77-34, § 173-302-200, filed 12/29/77.] Repealed by 82-05-023 (Order DE 81-33), filed 2/10/82. Statutory Authority: Chapter 70.105 RCW and RCW 70.95.260. Later promulgation, see WAC 173-303-240.

173-302-210 Transporter applicability. [Order DE 77-34, § 173-302-210, filed 12/29/77.] Repealed by 82-05-023 (Order DE 81-33), filed 2/10/82. Statutory Authority: Chapter 70.105 RCW and RCW 70.95.260. Later promulgation, see WAC 173-303-240.

173-302-220 Waste acceptance. [Order DE 77-34, § 173-302-220, filed 12/29/77.] Repealed by 82-05-023 (Order DE 81-33), filed 2/10/82. Statutory Authority: Chapter 70.105 RCW and RCW 70.95.260. Later promulgation, see WAC 173-303-250 and 173-303-370.

173-302-230 Transportation. [Order DE 77-34, § 173-302-230, filed 12/29/77.] Repealed by 82-05-023 (Order DE 81-33), filed 2/10/82. Statutory Authority: Chapter 70.105 RCW and RCW 70.95.260. Later promulgation, see WAC 173-303-250.

173-302-240 Operator requirements. [Order DE 77-34, § 173-302-240, filed 12/29/77.] Repealed by 82-05-023 (Order DE 81-33), filed 2/10/82. Statutory Authority: Chapter 70.105 RCW and RCW 70.95.260.

173-302-250 Yearly operating plan. [Order DE 77-34, § 173-302-250, filed 12/29/77.] Repealed by 82-05-023 (Order DE 81-33), filed 2/10/82. Statutory Authority: Chapter 70.105 RCW and RCW 70.95.260.

173-302-260 Hazardous waste acceptance. [Order DE 77-34, § 173-302-260, filed 12/29/77.] Repealed by 82-05-023 (Order DE 81-33), filed 2/10/82. Statutory Authority: Chapter 70.105 RCW and RCW 70.95.260. Later promulgation, see WAC 173-303-370.

173-302-270 EHW handling at the disposal site. [Order DE 77-34, § 173-302-270, filed 12/29/77.] Repealed by 82-05-023 (Order DE 81-33), filed 2/10/82. Statutory Authority: Chapter 70.105 RCW and RCW 70.95.260.

173-302-280 Environmental requirements. [Order DE 77-34, § 173-302-280, filed 12/29/77.] Repealed by 82-05-023 (Order DE 81-33), filed 2/10/82. Statutory Authority: Chapter 70.105 RCW and RCW 70.95.260. Later promulgation, see chapter 173-303 WAC.

173-302-290 Security requirements. [Order DE 77-34, § 173-302-290, filed 12/29/77.] Repealed by 82-05-023 (Order DE 81-33), filed 2/10/82. Statutory Authority: Chapter 70.105 RCW and RCW 70.95.260. Later promulgation, see WAC 173-303-310.

173-302-300 Safety requirements. [Order DE 77-34, § 173-302-300, filed 12/29/77.] Repealed by 82-05-023 (Order DE 81-33), filed 2/10/82. Statutory Authority: Chapter 70.105 RCW and RCW 70.95.260.

173-302-310 Emergency requirements. [Order DE 77-34, § 173-302-310, filed 12/29/77.] Repealed by 82-05-023 (Order DE 81-33), filed 2/10/82. Statutory Authority: Chapter 70.105 RCW and RCW 70.95.260. Later promulgation, see WAC 173-303-350 through 173-303-360.

173-302-320 Personnel requirements. [Order DE 77-34, § 173-302-320, filed 12/29/77.] Repealed by 82-05-023 (Order DE 81-33), filed 2/10/82. Statutory Authority: Chapter 70.105 RCW and RCW 70.95.260. Later promulgation, see WAC 173-303-330.

173-302-330 Department surveillance. [Order DE 77-34, § 173-302-330, filed 12/29/77.] Repealed by 82-05-023 (Order DE 81-33), filed 2/10/82. Statutory Authority: Chapter 70.105 RCW and RCW 70.95.260. Later promulgation, see chapter 173-303 WAC.

173-302-340 Financial requirements. [Order DE 77-34, § 173-302-340, filed 12/29/77.] Repealed by 82-05-023 (Order DE 81-33), filed 2/10/82. Statutory Authority: Chapter 70.105 RCW and RCW 70.95.260. Later promulgation, see WAC 173-303-620.

173-302-350 Treater requirements. [Order DE 77-34, § 173-302-350, filed 12/29/77.] Repealed by 82-05-023 (Order DE 81-33), filed 2/10/82. Statutory Authority: Chapter 70.105 RCW and RCW 70.95.260. Later promulgation, see chapter 173-303 WAC.

173-302-360 Treater applicability. [Order DE 77-34, § 173-302-360, filed 12/29/77.] Repealed by 82-05-023 (Order DE 81-33), filed 2/10/82. Statutory Authority: Chapter 70.105

RCW and RCW 70.95.260. Later promulgation, see chapter 173-303 WAC.

173-302-370 EHW acceptance. [Order DE 77-34, § 173-302-370, filed 12/29/77.] Repealed by 82-05-023 (Order DE 81-33), filed 2/10/82. Statutory Authority: Chapter 70.105 RCW and RCW 70.95.260. Later promulgation, see chapter 173-303 WAC.

173-302-380 Treatment criteria. [Order DE 77-34, § 173-302-380, filed 12/29/77.] Repealed by 82-05-023 (Order DE 81-33), filed 2/10/82. Statutory Authority: Chapter 70.105 RCW and RCW 70.95.260. Later promulgation, see chapter 173-303 WAC.

173-302-390 Compliance. [Statutory Authority: RCW 70.105.020 and 70.105.030. 78-08-021 (Order DE 78-14), § 173-302-390, filed 7/12/78; Order DE 77-34, § 173-302-390, filed 12/29/77.] Repealed by 82-05-023 (Order DE 81-33), filed 2/10/82. Statutory Authority: Chapter 70.105 RCW and RCW 70.95.260. Later promulgation, see chapter 173-303 WAC.

Chapter 173-309
HAZARDOUS WASTE CLEANUP ACT—LOCAL TOXICS CONTROL ACCOUNT—INTERIM FINANCIAL ASSISTANCE PROGRAM

173-309-010 Reserved. [Statutory Authority: RCW 43.21A.080 and chapter 70.105D RCW. 90-18-064 (Order 90-17), § 173-309-010, filed 9/4/90, effective 10/5/90. Statutory Authority: RCW 70.105B.220(4). 88-17-009 (Order 88-61), § 173-309-010, filed 8/5/88.] Repealed by 97-18-046 (Order 97-18), filed 8/28/97, effective 9/28/97.

173-309-020 Reserved. [Statutory Authority: RCW 43.21A.080 and chapter 70.105D RCW. 90-18-064 (Order 90-17), § 173-309-020, filed 9/4/90, effective 10/5/90. Statutory Authority: RCW 70.105B.220(4). 88-17-009 (Order 88-61), § 173-309-020, filed 8/5/88.] Repealed by 97-18-046 (Order 97-18), filed 8/28/97, effective 9/28/97.

173-309-030 Reserved. [Statutory Authority: RCW 43.21A.080 and chapter 70.105D RCW. 90-18-064 (Order 90-17), § 173-309-030, filed 9/4/90, effective 10/5/90. Statutory Authority: RCW 70.105B.220(4). 88-17-009 (Order 88-61), § 173-309-030, filed 8/5/88.] Repealed by 97-18-046 (Order 97-18), filed 8/28/97, effective 9/28/97.

173-309-040 Reserved. [Statutory Authority: RCW 43.21A.080 and chapter 70.105D RCW. 90-18-064 (Order 90-17), § 173-309-040, filed 9/4/90, effective 10/5/90. Statutory Authority: RCW 70.105B.220(4). 88-17-009 (Order 88-61), § 173-309-040, filed 8/5/88.] Repealed by 97-18-046 (Order 97-18), filed 8/28/97, effective 9/28/97.

173-309-050 Reserved. [Statutory Authority: RCW 43.21A.080 and chapter 70.105D RCW. 90-18-064 (Order 90-17), § 173-309-050, filed 9/4/90, effective 10/5/90. Statutory Authority: RCW 70.105B.220(4). 88-17-009 (Order 88-61), § 173-309-050, filed 8/5/88.] Repealed by 97-18-046 (Order 97-18), filed 8/28/97, effective 9/28/97.

173-309-060 Reserved. [Statutory Authority: RCW 43.21A.080 and chapter 70.105D RCW. 90-18-064 (Order 90-17), § 173-309-060, filed 9/4/90, effective 10/5/90. Statutory Authority: RCW 70.105B.220(4). 88-17-009 (Order 88-61), § 173-309-060, filed 8/5/88.] Repealed by 97-18-046 (Order 97-18), filed 8/28/97, effective 9/28/97.

173-309-070 Reserved. [Statutory Authority: RCW 43.21A.080 and chapter 70.105D RCW. 90-18-064 (Order 90-17), § 173-309-070, filed 9/4/90, effective 10/5/90. Statutory Authority: RCW 70.105B.220(4). 88-17-009 (Order 88-61), § 173-309-070, filed 8/5/88.] Repealed by 97-18-046 (Order 97-18), filed 8/28/97, effective 9/28/97.

173-309-080 Reserved. [Statutory Authority: RCW 43.21A.080 and chapter 70.105D RCW. 90-18-064 (Order 90-17), § 173-309-080, filed 9/4/90, effective 10/5/90. Statutory Authority: RCW 70.105B.220(4). 88-17-009 (Order 88-61), § 173-309-080, filed 8/5/88.] Repealed by 97-18-046 (Order 97-18), filed 8/28/97, effective 9/28/97.

173-309-090 Reserved. [Statutory Authority: RCW 43.21A.080 and chapter 70.105D RCW. 90-18-064 (Order 90-17), § 173-309-090, filed 9/4/90, effective 10/5/90. Statutory Authority: RCW 70.105B.220(4). 88-17-009 (Order 88-61), § 173-309-090, filed 8/5/88.] Repealed by 97-18-046 (Order 97-18), filed 8/28/97, effective 9/28/97.

Chapter 173-311
MODERATE RISK WASTE GRANTS

173-311-010 Purpose and authority. [Statutory Authority: RCW 43.21A.080, chapter 70.105D RCW and 1990 c 114 § 19. 90-18-066 (Order 90-22), § 173-311-010, filed 9/4/90, effective 10/5/90.] Repealed by 97-18-048 (Order 97-19), filed 8/28/97, effective 9/28/97.

173-311-020 Definitions. [Statutory Authority: RCW 43.21A.080, chapter 70.105D RCW and 1990 c 114 § 19. 90-18-066 (Order 90-22), § 173-311-020, filed 9/4/90, effective 10/5/90.] Repealed by 97-18-048 (Order 97-19), filed 8/28/97, effective 9/28/97.

173-311-030 Relation to other legislation and administrative rules. [Statutory Authority: RCW 43.21A.080, chapter 70.105D RCW and 1990 c 114 § 19. 90-18-066 (Order 90-22), § 173-311-030, filed 9/4/90, effective 10/5/90.] Repealed by 97-18-048 (Order 97-19), filed 8/28/97, effective 9/28/97.

173-311-040 General. [Statutory Authority: RCW 43.21A.080, chapter 70.105D RCW and 1990 c 114 § 19. 90-18-066 (Order 90-22), § 173-311-040, filed 9/4/90, effective 10/5/90.] Repealed by 97-18-048 (Order 97-19), filed 8/28/97, effective 9/28/97.

173-311-050 Moderate risk waste grants. [Statutory Authority: RCW 43.21A.080, chapter 70.105D RCW and 1990 c 114 § 19. 90-18-066 (Order 90-22), § 173-311-050, filed 9/4/90, effective 10/5/90.] Repealed by 97-18-048 (Order 97-19), filed 8/28/97, effective 9/28/97.

Chapter 173-315
MODEL TOXICS CONTROL ACT—LOCAL TOXICS CONTROL ACCOUNT—INTERIM FINANCIAL ASSISTANCE PROGRAM

173-315-010 Purpose and authority. [Statutory Authority: Chapter 70.105D RCW. 90-10-058 (Order 89-42), § 173-315-010, filed 5/1/90, effective 6/1/90. Statutory Authority: 1989 c 2. 89-17-072 (Order 89-11), § 173-315-010, filed 8/17/89, effective 9/17/89.] Repealed by 97-18-043 (Order 97-20), filed 8/28/97, effective 9/28/97.

173-315-020 Definitions. [Statutory Authority: 1989 c 2. 89-17-072 (Order 89-11), § 173-315-020, filed 8/17/89, effective 9/17/89.] Repealed by 97-18-043 (Order 97-20), filed 8/28/97, effective 9/28/97.

173-315-030 Relation to other legislation and administrative rules. [Statutory Authority: 1989 c 2. 89-17-072 (Order 89-11), § 173-315-030, filed 8/17/89, effective 9/17/89.] Repealed by 97-18-043 (Order 97-20), filed 8/28/97, effective 9/28/97.

173-315-040 General. [Statutory Authority: Chapter 70.105D RCW. 90-10-058 (Order 89-42), § 173-315-040, filed 5/1/90, effective 6/1/90. Statutory Authority: 1989 c 2. 89-17-072 (Order 89-11), § 173-315-040, filed 8/17/89, effective 9/17/89.] Repealed by 97-18-043 (Order 97-20), filed 8/28/97, effective 9/28/97.

173-315-050 Reserved. [Statutory Authority: Chapter 70.105D RCW. 90-10-058 (Order 89-42), § 173-315-050, filed 5/1/90, effective 6/1/90. Statutory Authority: 1989 c 2. 89-17-072 (Order 89-11), § 173-315-050, filed 8/17/89, effective 9/17/89.] Repealed by 97-18-043 (Order 97-20), filed 8/28/97, effective 9/28/97.

173-315-060 Hazardous waste planning and program grants. [Statutory Authority: RCW 43.21A.080, chapter 70.105D RCW and 1990 c 114 § 19. 90-18-066 (Order 90-22), § 173-315-060, filed 9/4/90, effective 10/5/90. Statutory Authority: 1989 c 2. 89-17-072 (Order 89-11), § 173-315-060, filed 8/17/89, effective 9/17/89.] Repealed by 97-18-043 (Order 97-20), filed 8/28/97, effective 9/28/97.

173-315-070 Solid waste planning and program grants. [Statutory Authority: 1989 c 2. 89-17-072 (Order 89-11), § 173-315-070, filed 8/17/89, effective 9/17/89.] Repealed by 97-18-043 (Order 97-20), filed 8/28/97, effective 9/28/97.

Chapter 173-318
PHASE ONE—WASTE REDUCTION AND RECYCLING GRANTS

173-318-010 Purpose and authority. [Statutory Authority: Chapters 43.83A and 43.99F RCW. 89-18-070 (Order 89-29), § 173-318-010, filed 9/5/89, effective 10/6/89.] Repealed by 97-18-044 (Order 97-22), filed 8/28/97, effective 9/28/97.

173-318-020 Relation to other legislation and administrative rules. [Statutory Authority: Chapters 43.83A and 43.99F RCW. 89-18-070 (Order 89-29), § 173-318-020, filed 9/5/89, effective 10/6/89.] Repealed by 97-18-044 (Order 97-22), filed 8/28/97, effective 9/28/97.

173-318-030 Definitions. [Statutory Authority: Chapters 43.83A and 43.99F RCW. 89-18-070 (Order 89-29), § 173-318-030, filed 9/5/89, effective 10/6/89.] Repealed by 97-18-044 (Order 97-22), filed 8/28/97, effective 9/28/97.

173-318-040 Funding. [Statutory Authority: Chapters 43.83A and 43.99F RCW. 89-18-070 (Order 89-29), § 173-318-040, filed 9/5/89, effective 10/6/89.] Repealed by 97-18-044 (Order 97-22), filed 8/28/97, effective 9/28/97.

173-318-050 Procedures. [Statutory Authority: Chapters 43.83A and 43.99F RCW. 89-18-070 (Order 89-29), § 173-318-050, filed 9/5/89, effective 10/6/89.] Repealed by 97-18-044 (Order 97-22), filed 8/28/97, effective 9/28/97.

173-318-060 Eligibility and grantee match requirements. [Statutory Authority: Chapters 43.83A and 43.99F RCW. 89-18-070 (Order 89-29), § 173-318-060, filed 9/5/89, effective 10/6/89.] Repealed by 97-18-044 (Order 97-22), filed 8/28/97, effective 9/28/97.

173-318-070 Waste reduction/recycling best management practices study demonstration project grants. [Statutory Authority: Chapters 43.83A and 43.99F RCW. 89-18-070 (Order 89-29), § 173-318-070, filed 9/5/89, effective 10/6/89.] Repealed by 97-18-044 (Order 97-22), filed 8/28/97, effective 9/28/97.

173-318-080 Preimplementation program design grants for waste reduction/recycling projects. [Statutory Authority: Chapters 43.83A and 43.99F RCW. 89-18-070 (Order 89-29), § 173-318-080, filed 9/5/89, effective 10/6/89.] Repealed by 97-18-044 (Order 97-22), filed 8/28/97, effective 9/28/97.

Chapter 173-319
COMPREHENSIVE WASTE REDUCTION/RECYCLING GRANTS PROGRAM

173-319-010 Purpose and authority. [Statutory Authority: RCW 43.21A.080. 90-22-084 (Order 90-39), § 173-319-010, filed 11/6/90, effective 12/7/90.] Repealed by 97-18-045 (Order 97-23), filed 8/28/97, effective 9/28/97.

173-319-020 Relation to other legislation and administrative rules. [Statutory Authority: RCW 43.21A.080. 90-22-084 (Order 90-39), § 173-319-020, filed 11/6/90, effective 12/7/90.] Repealed by 97-18-045 (Order 97-23), filed 8/28/97, effective 9/28/97.

173-319-030 Definitions. [Statutory Authority: RCW 43.21A.080. 90-22-084 (Order 90-39), § 173-319-030, filed 11/6/90, effective 12/7/90.] Repealed by 97-18-045 (Order 97-23), filed 8/28/97, effective 9/28/97.

173-319-040 General. [Statutory Authority: RCW 43.21A.080. 90-22-084 (Order 90-39), § 173-319-040, filed 11/6/90, effective 12/7/90.] Repealed by 97-18-045 (Order 97-23), filed 8/28/97, effective 9/28/97.

173-319-050 Compost study grants. [Statutory Authority: RCW 43.21A.080. 90-22-084 (Order 90-39), § 173-319-050, filed 11/6/90, effective 12/7/90.] Repealed by 97-18-045 (Order 97-23), filed 8/28/97, effective 9/28/97.

173-319-060 Waste reduction and recycling public information and education grants. [Statutory Authority: RCW 43.21A.080. 90-22-084 (Order 90-39), § 173-319-060, filed 11/6/90, effective 12/7/90.] Repealed by 97-18-045 (Order 97-23), filed 8/28/97, effective 9/28/97.

Chapter 173-320
BEVERAGE CONTAINERS—DETACHABLE PULL TABS

173-320-010 Authority. [Statutory Authority: Chapter 113, Laws of 1982 (chapter 70.132 RCW). 83-12-062 (Order DE 82-39), § 173-320-010, filed 6/1/83.] Repealed by 94-07-078 (Order 94-02), filed 3/16/94, effective 4/16/94.

173-320-020 Declaration of purpose. [Statutory Authority: Chapter 113, Laws of 1982 (chapter 70.132 RCW). 83-12-062 (Order DE 82-39), § 173-320-020, filed 6/1/83.] Repealed by 94-07-078 (Order 94-02), filed 3/16/94, effective 4/16/94.

173-320-030 Applicability. [Statutory Authority: Chapter 113, Laws of 1982 (chapter 70.132 RCW). 83-12-062 (Order DE 82-39), § 173-320-030, filed 6/1/83.] Repealed by 94-07-078 (Order 94-02), filed 3/16/94, effective 4/16/94.

173-320-040 Definitions. [Statutory Authority: Chapter 113, Laws of 1982 (chapter 70.132 RCW). 83-12-062 (Order DE 82-39), § 173-320-040, filed 6/1/83.] Repealed by 94-07-078 (Order 94-02), filed 3/16/94, effective 4/16/94.

173-320-050 Prohibition. [Statutory Authority: Chapter 113, Laws of 1982 (chapter 70.132 RCW). 83-12-062 (Order DE 82-39), § 173-320-050, filed 6/1/83.] Repealed by 94-07-078 (Order 94-02), filed 3/16/94, effective 4/16/94.

173-320-060 Return requirement. [Statutory Authority: Chapter 113, Laws of 1982 (chapter 70.132 RCW). 83-12-062 (Order DE 82-39), § 173-320-060, filed 6/1/83.] Repealed by 94-07-078 (Order 94-02), filed 3/16/94, effective 4/16/94.

173-320-070 Complaints. [Statutory Authority: Chapter 113, Laws of 1982 (chapter 70.132 RCW). 83-12-062 (Order DE 82-39), § 173-320-070, filed 6/1/83.] Repealed by 94-07-078 (Order 94-02), filed 3/16/94, effective 4/16/94.

173-320-080 Enforcement. [Statutory Authority: Chapter 113, Laws of 1982 (chapter 70.132 RCW). 83-12-062 (Order DE 82-39), § 173-320-080, filed 6/1/83.] Repealed by 94-07-078 (Order 94-02), filed 3/16/94, effective 4/16/94.

Chapter 173-335
VEHICLE TIRE RECYCLING AND REMOVAL GRANT REGULATION

173-335-010 Purpose and authority. [Statutory Authority: RCW 70.95.260. 88-17-002 (Order 88-25), § 173-335-010, filed 8/4/88.] Repealed by 94-07-078 (Order 94-02), filed 3/16/94, effective 4/16/94.

173-335-020 Definitions. [Statutory Authority: RCW 70.95.260. 88-17-002 (Order 88-25), § 173-335-020, filed 8/4/88.] Repealed by 94-07-078 (Order 94-02), filed 3/16/94, effective 4/16/94.

173-335-030 Relation to other legislation and administrative rules. [Statutory Authority: RCW 70.95.260. 88-17-002 (Order 88-25), § 173-335-030, filed 8/4/88.] Repealed by 94-07-078 (Order 94-02), filed 3/16/94, effective 4/16/94.

173-335-040 General. [Statutory Authority: RCW 70.95.260. 88-17-002 (Order 88-25), § 173-335-040, filed 8/4/88.] Repealed by 94-07-078 (Order 94-02), filed 3/16/94, effective 4/16/94.

173-335-050 Administration. [Statutory Authority: RCW 70.95.260. 88-17-002 (Order 88-25), § 173-335-050, filed 8/4/88.] Repealed by 94-07-078 (Order 94-02), filed 3/16/94, effective 4/16/94.

Chapter 173-336
INITIAL INVESTIGATION REGULATION

173-336-010 Purpose and authority. [Statutory Authority: RCW 70.105B.030(2). 88-15-038 (Order 88-20), § 173-336-010, filed 7/15/88.] Repealed by 90-08-120 (Order 90-12), filed 4/4/90, effective 5/5/90. Statutory Authority: Chapter 70.105D RCW.

173-336-020 Definitions. [Statutory Authority: RCW 70.105B.030(2). 88-15-038 (Order 88-20), § 173-336-020, filed 7/15/88.] Repealed by 90-08-120 (Order 90-12), filed 4/4/90, effective 5/5/90. Statutory Authority: Chapter 70.105D RCW.

173-336-030 General. [Statutory Authority: RCW 70.105B.030(2). 88-15-038 (Order 88-20), § 173-336-030, filed 7/15/88.] Repealed by 90-08-120 (Order 90-12), filed 4/4/90, effective 5/5/90. Statutory Authority: Chapter 70.105D RCW.

Chapter 173-338
HAZARD RANKING SYSTEM REGULATION

173-338-010 Purpose. [Statutory Authority: RCW 70.105B.030(2). 88-15-037 (Order 88-5), § 173-338-010, filed 7/15/88.] Repealed by 90-08-120 (Order 90-12), filed 4/4/90, effective 5/5/90. Statutory Authority: Chapter 70.105D RCW.

173-338-020 Definitions. [Statutory Authority: RCW 70.105B.030(2). 88-15-037 (Order 88-5), § 173-338-020, filed 7/15/88.] Repealed by 90-08-120 (Order 90-12), filed 4/4/90, effective 5/5/90. Statutory Authority: Chapter 70.105D RCW.

173-338-030 Evaluation criteria. [Statutory Authority: RCW 70.105B.030(2). 88-15-037 (Order 88-5), § 173-338-030, filed 7/15/88.] Repealed by 90-08-120 (Order 90-12), filed 4/4/90, effective 5/5/90. Statutory Authority: Chapter 70.105D RCW.

173-338-040 Scoring procedure. [Statutory Authority: RCW 70.105B.030(2). 88-15-037 (Order 88-5), § 173-338-040, filed 7/15/88.] Repealed by 90-08-120 (Order 90-12), filed 4/4/90, effective 5/5/90. Statutory Authority: Chapter 70.105D RCW.

173-338-050 Rescoring. [Statutory Authority: RCW 70.105B.030(2). 88-15-037 (Order 88-5), § 173-338-050, filed 7/15/88.] Repealed by 90-08-120 (Order 90-12), filed 4/4/90, effective 5/5/90. Statutory Authority: Chapter 70.105D RCW.

Chapter 173-402
CIVIL SANCTIONS UNDER WASHINGTON CLEAN AIR ACT

173-402-010 Prior regulations. [Statutory Authority: RCW 70.94.040, 70.94.141 and 70.94.331. 80-08-024 (Order DE 80-23), § 173-402-010, filed 6/24/80.] Repealed by 94-14-067, filed 7/1/94, effective 8/1/94.

173-402-020 Subsequent regulations. [Statutory Authority: RCW 70.94.040, 70.94.141 and 70.94.331. 80-08-024 (Order DE 80-23), § 173-402-020, filed 6/24/80.] Repealed by 94-14-067, filed 7/1/94, effective 8/1/94.

Chapter 173-403
IMPLEMENTATION OF REGULATIONS FOR AIR CONTAMINANT SOURCES

173-403-010 Policy and purpose. [Statutory Authority: Chapters 43.21A and 70.94 RCW. 83-09-013 (Order DE 83-12), § 173-403-010, filed 4/11/83. Formerly WAC 18-60-010.] Repealed by 91-05-064 (Order 90-06), filed 2/19/91, effective 3/22/91. Statutory Authority: Chapter 70.94 RCW.

173-403-020 Applicability. [Statutory Authority: Chapters 43.21A and 70.94 RCW. 83-09-013 (Order DE 83-12), § 173-403-020, filed 4/11/83.] Repealed by 91-05-064 (Order 90-06), filed 2/19/91, effective 3/22/91. Statutory Authority: Chapter 70.94 RCW.

173-403-030 Definitions. [Statutory Authority: Chapters 70.94 and 43.21A RCW. 89-02-055 (Order 88-39), § 173-403-030, filed 1/3/89. Statutory Authority: Chapter 70.94 RCW. 87-19-074 (Order 87-13), § 173-403-030, filed 9/16/87. Statutory Authority: RCW 70.94.331. 86-23-014 (Order 86-30), § 173-403-030, filed 11/10/86; 85-06-047 (Order 84-49), § 173-403-030, filed 3/6/85. Statutory Authority: Chapters 43.21A and 70.94 RCW. 83-18-010 (Order DE 83-22), § 173-403-030, filed 8/26/83; 83-09-013 (Order DE 83-12), § 173-403-030, filed 4/11/83. Formerly WAC 18-60-020.] Repealed by 91-05-064 (Order 90-06), filed 2/19/91, effective 3/22/91. Statutory Authority: Chapter 70.94 RCW.

173-403-050 New source review (NSR). [Statutory Authority: Chapters 70.94 and 43.21A RCW. 89-02-055 (Order 88-39), § 173-403-050, filed 1/3/89. Statutory Authority: RCW 70.94.331. 85-06-047 (Order 84-49), § 173-403-050, filed 3/6/85. Statutory Authority: RCW 70.94.331, 70.94.141 and 43.21A.060. 84-21-098 (Order 84-27), § 173-403-050, filed 10/19/84. Statutory Authority: Chapters 43.21A and 70.94 RCW. 83-18-010 (Order DE 83-22), § 173-403-050, filed 8/26/83; 83-09-013 (Order DE 83-12), § 173-403-050, filed 4/11/83.] Repealed by 91-05-064 (Order 90-06), filed 2/19/91, effective 3/22/91. Statutory Authority: Chapter 70.94 RCW.

173-403-060 Bubble rules. [Statutory Authority: Chapters 43.21A and 70.94 RCW. 83-18-010 (Order DE 83-22), § 173-403-060, filed 8/26/83.] Repealed by 91-05-064 (Order 90-06), filed 2/19/91, effective 3/22/91. Statutory Authority: Chapter 70.94 RCW.

173-403-070 Issuance of emission reduction credits. [Statutory Authority: RCW 70.94.331. 85-06-047 (Order 84-49), § 173-403-070, filed 3/6/85. Statutory Authority: RCW 70.94.331, 70.94.141 and 43.21A.060. 84-21-098 (Order 84-27), § 173-403-070, filed 10/19/84. Statutory Authority: Chapters 43.21A and 70.94 RCW. 83-18-010 (Order DE 83-22), § 173-403-070, filed 8/26/83.] Repealed by 91-05-064 (Order 90-06), filed 2/19/91, effective 3/22/91. Statutory Authority: Chapter 70.94 RCW.

173-403-075 Use of emission reduction credits. [Statutory Authority: Chapters 43.21A and 70.94 RCW. 83-18-010 (Order DE 83-22), § 173-403-075, filed 8/26/83.] Repealed by 91-05-064 (Order 90-06), filed 2/19/91, effective 3/22/91. Statutory Authority: Chapter 70.94 RCW.

173-403-080 Prevention of significant deterioration (PSD). [Statutory Authority: Chapters 70.94 and 43.21A RCW. 89-02-055 (Order 88-39), § 173-403-080, filed 1/3/89. Statutory Authority: RCW 70.94.331. 85-06-047 (Order 84-49), § 173-403-080, filed 3/6/85. Statutory Authority: RCW 70.94.331, 70.94.141 and 43.21A.060. 84-21-098 (Order 84-27), § 173-403-080, filed 10/19/84. Statutory Authority: Chapters 43.21A and 70.94 RCW. 83-18-010 (Order DE 83-22), § 173-403-080, filed 8/26/83.] Repealed by 91-05-064 (Order 90-06), filed 2/19/91, effective 3/22/91. Statutory Authority: Chapter 70.94 RCW.

173-403-090 Retrofit requirements for visibility protection. [Statutory Authority: Chapters 43.21A and 70.94 RCW. 83-18-010 (Order DE 83-22), § 173-403-090, filed 8/26/83.] Repealed by 91-05-064 (Order 90-06), filed 2/19/91, effective 3/22/91. Statutory Authority: Chapter 70.94 RCW.

173-403-100 Compliance schedules. [Statutory Authority: Chapters 43.21A and 70.94 RCW. 83-09-013 (Order DE 83-12), § 173-403-100, filed 4/11/83.] Repealed by 91-05-064 (Order 90-06), filed 2/19/91, effective 3/22/91. Statutory Authority: Chapter 70.94 RCW.

173-403-110 Public involvement. [Statutory Authority: RCW 70.94.331. 86-23-014 (Order 86-30), § 173-403-110, filed 11/10/86. Statutory Authority: Chapters 43.21A and 70.94 RCW. 83-18-010 (Order DE 83-22), § 173-403-110, filed 8/26/83. 83-09-013 (Order DE 83-12), § 173-403-110, filed 4/11/83.] Repealed by 91-05-064 (Order 90-06), filed 2/19/91, effective 3/22/91. Statutory Authority: Chapter 70.94 RCW.

173-403-120 Variance. [Statutory Authority: Chapters 43.21A and 70.94 RCW. 83-09-013 (Order DE 83-12), § 173-403-120, filed 4/11/83.] Repealed by 91-05-064 (Order 90-06), filed 2/19/91, effective 3/22/91. Statutory Authority: Chapter 70.94 RCW.

173-403-130 Requirements for nonattainment areas. [Statutory Authority: Chapters 43.21A and 70.94 RCW. 83-09-013 (Order DE 83-12), § 173-403-130, filed 4/11/83.] Repealed by 91-05-064 (Order 90-06), filed 2/19/91, effective 3/22/91. Statutory Authority: Chapter 70.94 RCW.

173-403-140 Use of dispersion techniques. [Statutory Authority: Chapters 43.21A and 70.94 RCW. 83-09-013 (Order DE 83-12), § 173-403-140, filed 4/11/83.] Repealed by 86-23-014 (Order 86-30), filed 11/10/86. Statutory Authority: RCW 70.94.331.

173-403-141 Creditable stack height and dispersion techniques. [Statutory Authority: RCW 70.94.331. 86-23-014 (Order 86-30), § 173-403-141, filed 11/10/86.] Repealed by 91-05-064 (Order 90-06), filed 2/19/91, effective 3/22/91. Statutory Authority: Chapter 70.94 RCW.

173-403-145 Adjustment for atmospheric conditions. [Statutory Authority: RCW 70.94.331. 86-23-014 (Order 86-30), § 173-403-145, filed 11/10/86.] Repealed by 91-05-064 (Order 90-06), filed 2/19/91, effective 3/22/91. Statutory Authority: Chapter 70.94 RCW.

173-403-150 Maintenance of pay. [Statutory Authority: Chapters 43.21A and 70.94 RCW. 83-09-013 (Order DE 83-12), § 173-403-150, filed 4/11/83.] Repealed by 91-05-064 (Order 90-06), filed 2/19/91, effective 3/22/91. Statutory Authority: Chapter 70.94 RCW.

173-403-160 Requirements for boards and director. [Statutory Authority: Chapters 43.21A and 70.94 RCW. 83-09-013 (Order DE 83-12), § 173-403-160, filed 4/11/83.] Repealed by 91-05-064 (Order 90-06), filed 2/19/91, effective 3/22/91. Statutory Authority: Chapter 70.94 RCW.

173-403-170 Regulatory actions. [Statutory Authority: RCW 70.94.331, 70.94.141 and 43.21A.060. 84-21-098 (Order 84-27), § 173-403-170, filed 10/19/84. Statutory Authority: Chapters 43.21A and 70.94 RCW. 83-09-013 (Order DE 83-12), § 173-403-170, filed 4/11/83.] Repealed by 91-05-064 (Order 90-06), filed 2/19/91, effective 3/22/91. Statutory Authority: Chapter 70.94 RCW.

173-403-180 Criminal penalties. [Statutory Authority: Chapters 43.21A and 70.94 RCW. 83-09-013 (Order DE 83-12), § 173-403-180, filed 4/11/83.] Repealed by 91-05-064 (Order 90-06), filed 2/19/91, effective 3/22/91. Statutory Authority: Chapter 70.94 RCW.

173-403-190 Appeals. [Statutory Authority: Chapters 43.21A and 70.94 RCW. 83-09-013 (Order DE 83-12), § 173-403-190, filed 4/11/83.] Repealed by 91-05-064 (Order 90-06), filed 2/19/91, effective 3/22/91. Statutory Authority: Chapter 70.94 RCW.

Chapter 173-440
SENSITIVE AREAS

(Formerly chapter 18-06 WAC)

173-440-010 Purpose. [Statutory Authority: RCW 70.94.331. 90-19-062 (Order 90-10), § 173-440-010, filed 9/17/90, effective 10/18/90. Statutory Authority: Chapter 70.94 RCW. 87-19-076 (Order 87-15), § 173-440-010, filed

9/16/87.] Repealed by 94-14-067, filed 7/1/94, effective 8/1/94.

173-440-020 Applicability. [Statutory Authority: Chapter 70.94 RCW. 87-19-076 (Order 87-15), § 173-440-020, filed 9/16/87.] Repealed by 94-14-067, filed 7/1/94, effective 8/1/94.

173-440-030 Definitions. [Statutory Authority: RCW 70.94.331. 90-19-062 (Order 90-10), § 173-440-030, filed 9/17/90, effective 10/18/90. Statutory Authority: Chapter 70.94 RCW. 87-19-076 (Order 87-15), § 173-440-030, filed 9/16/87.] Repealed by 94-14-067, filed 7/1/94, effective 8/1/94.

173-440-040 Sensitive areas designated. [Statutory Authority: Chapter 70.94 RCW. 87-19-076 (Order 87-15), § 173-440-040, filed 9/16/87.] Repealed by 94-14-067, filed 7/1/94, effective 8/1/94.

173-440-100 Standards. [Statutory Authority: RCW 70.94.331. 90-19-062 (Order 90-10), § 173-440-100, filed 9/17/90, effective 10/18/90. Statutory Authority: Chapter 70.94 RCW. 87-19-076 (Order 87-15), § 173-440-100, filed 9/16/87.] Repealed by 94-14-067, filed 7/1/94, effective 8/1/94.

173-440-900 Appendix A—Map. [Statutory Authority: Chapter 70.94 RCW. 87-19-076 (Order 87-15), § 173-440-900, filed 9/16/87.] Repealed by 94-14-067, filed 7/1/94, effective 8/1/94.

Chapter 173-530
WATER RESOURCES PROGRAM IN THE KLICKITAT RIVER BASIN, WRIA-30

173-530-910 Authority. [Order DE 76-7, § 173-530-910, filed 4/14/76.] Repealed by 88-13-037 (Order 88-11), filed 6/9/88. Statutory Authority: Chapters 43.27A, 90.22 and 90.54 RCW.

173-530-920 Purpose. [Order DE 76-7, § 173-530-920, filed 4/14/76.] Repealed by 88-13-037 (Order 88-11), filed 6/9/88. Statutory Authority: Chapters 43.27A, 90.22 and 90.54 RCW.

173-530-930 Definitions. [Order DE 76-7, § 173-530-930, filed 4/14/76.] Repealed by 88-13-037 (Order 88-11), filed 6/9/88. Statutory Authority: Chapters 43.27A, 90.22 and 90.54 RCW.

173-530-940 Declaration of withdrawal. [Statutory Authority: RCW 90.54.050. 81-20-041 (Order DE 81-30), § 173-530-940, filed 10/1/81; 78-11-039 (Order DE 78-18), § 173-530-940, filed 10/19/78; Order DE 76-7, § 173-530-940, filed 4/14/76.] Repealed by 88-13-037 (Order 88-11), filed 6/9/88. Statutory Authority: Chapters 43.27A, 90.22 and 90.54 RCW.

173-530-950 Existing rights not affected. [Order DE 76-7, § 173-530-950, filed 4/14/76.] Repealed by 88-13-037 (Order 88-11), filed 6/9/88. Statutory Authority: Chapters 43.27A, 90.22 and 90.54 RCW.

173-530-960 Exemptions. [Order DE 76-7, § 173-530-960, filed 4/14/76.] Repealed by 88-13-037 (Order 88-11), filed 6/9/88. Statutory Authority: Chapters 43.27A, 90.22 and 90.54 RCW.

Chapter 173-531
WATER RESOURCE PROGRAM FOR THE JOHN DAY-MCNARY POOLS REACH OF THE COLUMBIA RIVER, WRIA 31 AND PARTS OF WRIAS 32, 33, 36, AND 37

173-531-010 Purpose. [Statutory Authority: RCW 90.54.040 and 90.54.050. 78-09-015 (Order DE 77-31), § 173-531-010, filed 8/8/78.] Repealed by 80-08-020 (Order DE 80-1), filed 6/24/80. Statutory Authority: RCW 90.54.040 and 90.54.050. Later promulgation, see WAC 173-531A-010.

173-531-020 Definitions. [Statutory Authority: RCW 90.54.040 and 90.54.050. 78-09-015 (Order DE 77-31), § 173-531-020, filed 8/8/78.] Repealed by 80-08-020 (Order DE 80-1), filed 6/24/80. Statutory Authority: RCW 90.54.040 and 90.54.050. Later promulgation, see WAC 173-531A-020.

173-531-030 Existing water rights protected. [Statutory Authority: RCW 90.54.040 and 90.54.050. 78-09-015 (Order DE 77-31), § 173-531-030, filed 8/8/78.] Repealed by 80-08-020 (Order DE 80-1), filed 6/24/80. Statutory Authority: RCW 90.54.040 and 90.54.050. Later promulgation, see WAC 173-531A-030.

173-531-040 Reservation for future irrigation use. [Statutory Authority: RCW 90.54.040 and 90.54.050. 78-09-015 (Order DE 77-31), § 173-531-040, filed 8/8/78.] Repealed by 80-08-020 (Order DE 80-1), filed 6/24/80. Statutory Authority: RCW 90.54.040 and 90.54.050. Later promulgation, see WAC 173-531A-040.

173-531-050 Reservation for municipal use. [Statutory Authority: RCW 90.54.040 and 90.54.050. 78-09-015 (Order DE 77-31), § 173-531-050, filed 8/8/78.] Repealed by 80-08-020 (Order DE 80-1), filed 6/24/80. Statutory Authority: RCW 90.54.040 and 90.54.050. Later promulgation, see WAC 173-531A-050.

173-531-060 Department to develop an instream resource protection program. [Statutory Authority: RCW 90.54.040 and 90.54.050. 78-09-015 (Order DE 77-31), § 173-531-060, filed 8/8/78.] Repealed by 80-08-020 (Order DE 80-1), filed 6/24/80. Statutory Authority: RCW 90.54.040 and 90.54.050. Later promulgation, see WAC 173-531A-060.

173-531-070 Department to review regulation. [Statutory Authority: RCW 90.54.040 and 90.54.050. 78-09-015 (Order DE 77-31), § 173-531-070, filed 8/8/78.] Repealed by 80-08-020 (Order DE 80-1), filed 6/24/80. Statutory Authority: RCW 90.54.040 and 90.54.050. Later promulgation, see WAC 173-531A-070.

Chapter 173-596
PROCEDURES AND POLICIES GOVERNING APPROPRIATIONS OF SIGNIFICANT AMOUNTS OF WATER FOR AGRICULTURAL IRRIGATION USE

173-596-010 Background. [Order DE 76-19, § 173-596-010, filed 6/8/76.] Repealed by 88-13-037 (Order 88-11), filed 6/9/88. Statutory Authority: Chapters 43.27A, 90.22 and 90.54 RCW.

173-596-015 Purpose. [Order DE 76-19, § 173-596-015, filed 6/8/76.] Repealed by 88-13-037 (Order 88-11), filed 6/9/88. Statutory Authority: Chapters 43.27A, 90.22 and 90.54 RCW.

173-596-020 Definitions. [Order DE 76-19, § 173-596-020, filed 6/8/76.] Repealed by 88-13-037 (Order 88-11), filed 6/9/88. Statutory Authority: Chapters 43.27A, 90.22 and 90.54 RCW.

173-596-025 Conditions to be included in permits involving substantial withdrawals of public waters. [Order DE 76-19, § 173-596-025, filed 6/8/76.] Repealed by 88-13-037 (Order 88-11), filed 6/9/88. Statutory Authority: Chapters 43.27A, 90.22 and 90.54 RCW.

173-596-030 Regional water supply and multipurpose project considerations. [Order DE 76-19, § 173-596-030, filed 6/8/76.] Repealed by 88-13-037 (Order 88-11), filed 6/9/88. Statutory Authority: Chapters 43.27A, 90.22 and 90.54 RCW.

173-596-035 Processing of applications. [Order DE 76-19, § 173-596-035, filed 6/8/76.] Repealed by 88-13-037 (Order 88-11), filed 6/9/88. Statutory Authority: Chapters 43.27A, 90.22 and 90.54 RCW.

173-596-040 Water right of regional or statewide significance. [Order DE 76-19, § 173-596-040, filed 6/8/76.] Repealed by 88-13-037 (Order 88-11), filed 6/9/88. Statutory Authority: Chapters 43.27A, 90.22 and 90.54 RCW.

173-596-045 Conservation and management program. [Order DE 76-19, § 173-596-045, filed 6/8/76.] Repealed by 88-13-037 (Order 88-11), filed 6/9/88. Statutory Authority: Chapters 43.27A, 90.22 and 90.54 RCW.

173-596-050 Monitoring program. [Order DE 76-19, § 173-596-050, filed 6/8/76.] Repealed by 88-13-037 (Order 88-11), filed 6/9/88. Statutory Authority: Chapters 43.27A, 90.22 and 90.54 RCW.

173-596-055 Effect on existing rights and laws and public entities. [Order DE 76-19, § 173-596-055, filed 6/8/76.] Repealed by 88-13-037 (Order 88-11), filed 6/9/88. Statutory Authority: Chapters 43.27A, 90.22 and 90.54 RCW.

173-596-060 Environmental impact statement. [Order DE 76-19, § 173-596-060, filed 6/8/76.] Repealed by 88-13-037 (Order 88-11), filed 6/9/88. Statutory Authority: Chapters 43.27A, 90.22 and 90.54 RCW.

173-596-065 Review of regulatory orders. [Order DE 76-19, § 173-596-065, filed 6/8/76.] Repealed by 88-13-037 (Order 88-11), filed 6/9/88. Statutory Authority: Chapters 43.27A, 90.22 and 90.54 RCW.

Chapter 173-800
INTEGRATION OF POLICIES AND PROCEDURES OF SEPA INTO THE PROGRAMS OF THE DEPARTMENT OF ECOLOGY

173-800-010 Authority. [Order DE 76-12, § 173-800-010, filed 5/14/76.] Repealed by 78-04-090 (Order DE 78-5), filed 4/4/78. Statutory Authority: RCW 43.21C.120. Later promulgation, see WAC 173-801-010.

173-800-015 Impact of guidelines on the department. [Order DE 76-12, § 173-800-015, filed 5/14/76.] Repealed by 78-04-090 (Order DE 78-5), filed 4/4/78. Statutory Authority: RCW 43.21C.120.

173-800-020 Purpose. [Order DE 76-12, § 173-800-020, filed 5/14/76.] Repealed by 78-04-090 (Order DE 78-5), filed 4/4/78. Statutory Authority: RCW 43.21C.120. Later promulgation, see WAC 173-801-030.

173-800-030 Effect of SEPA. [Order DE 76-12, § 173-800-030, filed 5/14/76.] Repealed by 78-04-090 (Order DE 78-5), filed 4/4/78. Statutory Authority: RCW 43.21C.120. Later promulgation, see WAC 173-801-040.

173-800-035 Integration of SEPA procedures with other departmental operations. [Order DE 76-12, § 173-800-035, filed 5/14/76.] Repealed by 78-04-090 (Order DE 78-5), filed 4/4/78. Statutory Authority: RCW 43.21C.120. Later promulgation, see WAC 173-801-045.

173-800-040 Definitions. [Order DE 76-12, § 173-800-040, filed 5/14/76.] Repealed by 78-04-090 (Order DE 78-5), filed 4/4/78. Statutory Authority: RCW 43.21C.120.

173-800-050 Designation of responsible official. [Order DE 76-12, § 173-800-050, filed 5/14/76.] Repealed by 78-04-090 (Order DE 78-5), filed 4/4/78. Statutory Authority: RCW 43.21C.120. Later promulgation, see WAC 173-801-050.

173-800-060 Timing. [Order DE 76-12, § 173-800-060, filed 5/14/76.] Repealed by 78-04-090 (Order DE 78-5), filed 4/4/78. Statutory Authority: RCW 43.21C.120. Later promulgation, see WAC 173-801-060.

173-800-070 Scope of a proposal and its impacts for the purposes of lead agency determination, threshold determination, and EIS preparation. [Order DE 76-12, § 173-800-070, filed 5/14/76.] Repealed by 78-04-090 (Order DE 78-5), filed 4/4/78. Statutory Authority: RCW 43.21C.120.

173-800-080 Summary of information which may be required of a private applicant. [Order DE 76-12, § 173-800-080, filed 5/14/76.] Repealed by 78-04-090 (Order DE 78-5), filed 4/4/78. Statutory Authority: RCW 43.21C.120. Later promulgation, see WAC 173-801-070.

173-800-090 No presumption of significance for nonexempt actions. [Order DE 76-12, § 173-800-090, filed 5/14/76.] Repealed by 78-04-090 (Order DE 78-5), filed 4/4/78. Statutory Authority: RCW 43.21C.120.

173-800-100 Categorical exemptions. [Order DE 76-12, § 173-800-100, filed 5/14/76.] Repealed by 78-04-090 (Order DE 78-5), filed 4/4/78. Statutory Authority: RCW 43.21C.120.

173-800-105 Exemptions applicable to other agencies. [Order DE 76-12, § 173-800-105, filed 5/14/76.] Repealed by 78-04-090 (Order DE 78-5), filed 4/4/78. Statutory Authority: RCW 43.21C.120.

173-800-110 Exemptions and nonexemptions specifically applicable to the department. [Order DE 76-12, § 173-800-110, filed 5/14/76.] Repealed by 78-04-090 (Order DE 78-5), filed 4/4/78. Statutory Authority: RCW 43.21C.120.

173-800-120 Exemption for emergency actions. [Order DE 76-12, § 173-100-120 (codified as WAC 173-800-120), filed 5/14/76.] Repealed by 78-04-090 (Order DE 78-5), filed 4/4/78. Statutory Authority: RCW 43.21C.120.

173-800-140 Sensitive areas. [Order DE 76-12, § 173-800-140, filed 5/14/76.] Repealed by 78-04-090 (Order DE 78-5), filed 4/4/78. Statutory Authority: RCW 43.21C.120. Later promulgation, see WAC 173-801-080.

173-800-145 Use and effect of categorical exemptions. [Order DE 76-12, § 173-800-145, filed 5/14/76.] Repealed by 78-04-090 (Order DE 78-5), filed 4/4/78. Statutory Authority: RCW 43.21C.120.

173-800-150 Lead agency—Responsibilities. [Order DE 76-12, § 173-800-150, filed 5/14/76.] Repealed by 78-04-090 (Order DE 78-5), filed 4/4/78. Statutory Authority: RCW 43.21C.120.

173-800-160 Determination of lead agency—Procedures. [Order DE 76-12, § 173-800-160, filed 5/14/76.] Repealed by 78-04-090 (Order DE 78-5), filed 4/4/78. Statutory Authority: RCW 43.21C.120.

173-800-170 Lead agency designation—Governmental proposals. [Order DE 76-12, § 173-800-170, filed 5/14/76.] Repealed by 78-04-090 (Order DE 78-5), filed 4/4/78. Statutory Authority: RCW 43.21C.120.

173-800-180 Lead agency designation—Proposals involving both private and public construction activity. [Order DE 76-12, § 173-800-180, filed 5/14/76.] Repealed by 78-04-090 (Order DE 78-5), filed 4/4/78. Statutory Authority: RCW 43.21C.120.

173-800-190 Lead agency designation—Private projects for which there is only one agency with jurisdiction. [Order DE 76-12, § 173-800-190, filed 5/14/76.] Repealed by 78-04-090 (Order DE 78-5), filed 4/4/78. Statutory Authority: RCW 43.21C.120.

173-800-200 Lead agency designation—Private projects requiring licenses from more than one agency, when one of the agencies is a county/city. [Order DE 76-12, § 173-800-200, filed 5/14/76.] Repealed by 78-04-090 (Order DE 78-5), filed 4/4/78. Statutory Authority: RCW 43.21C.120.

173-800-210 Lead agency designation—Private projects requiring licenses from more than one state agency. [Order DE 76-12, § 173-800-210, filed 5/14/76.] Repealed by 78-04-090 (Order DE 78-5), filed 4/4/78. Statutory Authority: RCW 43.21C.120.

173-800-220 Lead agency designation—Specific proposals. [Order DE 76-12, § 173-800-220, filed 5/14/76.] Repealed by 78-04-090 (Order DE 78-5), filed 4/4/78. Statutory Authority: RCW 43.21C.120.

173-800-230 Local agency transfer of lead agency status to a state agency. [Order DE 76-12, § 173-800-230, filed 5/14/76.] Repealed by 78-04-090 (Order DE 78-5), filed 4/4/78. Statutory Authority: RCW 43.21C.120.

173-800-240 Agreements as to lead agency status. [Order DE 76-12, § 173-800-240, filed 5/14/76.] Repealed by 78-04-090 (Order DE 78-5), filed 4/4/78. Statutory Authority: RCW 43.21C.120.

173-800-250 Agreements between agencies as to division of lead agency duties. [Order DE 76-12, § 173-800-250, filed 5/14/76.] Repealed by 78-04-090 (Order DE 78-5), filed 4/4/78. Statutory Authority: RCW 43.21C.120.

173-800-260 Dispute as to lead agency determination—Resolution by CEP. [Order DE 76-12, § 173-800-260, filed 5/14/76.] Repealed by 78-04-090 (Order DE 78-5), filed 4/4/78. Statutory Authority: RCW 43.21C.120.

173-800-270 Assumption of lead agency status by another agency with jurisdiction. [Order DE 76-12, § 173-800-270, filed 5/14/76.] Repealed by 78-04-090 (Order DE 78-5), filed 4/4/78. Statutory Authority: RCW 43.21C.120.

173-800-280 Individuals making SEPA-related determinations. [Order DE 76-12, § 173-800-280, filed 5/14/76.] Repealed by 78-04-090 (Order DE 78-5), filed 4/4/78. Statutory Authority: RCW 43.21C.120. Later promulgation, see WAC 173-801-090.

173-800-300 Environmental checklist. [Order DE 76-12, § 173-800-300, filed 5/14/76.] Repealed by 78-04-090 (Order DE 78-5), filed 4/4/78. Statutory Authority: RCW 43.21C.120.

173-800-310 Environmental checklist procedures. [Order DE 76-12, § 173-800-310, filed 5/14/76.] Repealed by 78-04-090 (Order DE 78-5), filed 4/4/78. Statutory Authority: RCW 43.21C.120.

173-800-320 Threshold determination procedures—Initial review of environmental checklist. [Order DE 76-12, § 173-800-320, filed 5/14/76.] Repealed by 78-04-090 (Order DE 78-5), filed 4/4/78. Statutory Authority: RCW 43.21C.120.

173-800-330 Threshold determination procedures—Information in addition to checklist. [Order DE 76-12, § 173-800-330, filed 5/14/76.] Repealed by 78-04-090 (Order DE 78-5), filed 4/4/78. Statutory Authority: RCW 43.21C.120.

173-800-340 Threshold determination procedures—Negative declarations. [Order DE 76-12, § 173-800-340, filed 5/14/76.] Repealed by 78-04-090 (Order DE 78-5), filed 4/4/78. Statutory Authority: RCW 43.21C.120.

173-800-345 Assumption of lead agency status by another agency with jurisdiction over a proposal—Prerequisites, effect and form of notice. [Order DE 76-12, § 173-800-345, filed 5/14/76.] Repealed by 78-04-090 (Order DE 78-5), filed 4/4/78. Statutory Authority: RCW 43.21C.120.

173-800-350 Affirmative threshold determination. [Order DE 76-12, § 173-800-350, filed 5/14/76.] Repealed by 78-04-090 (Order DE 78-5), filed 4/4/78. Statutory Authority: RCW 43.21C.120.

173-800-355 Form of declaration of significance/nonsignificance. [Order DE 76-12, § 173-800-355, filed 5/14/76.]

Repealed by 78-04-090 (Order DE 78-5), filed 4/4/78. Statutory Authority: RCW 43.21C.120.

173-800-360 Threshold determination criteria—Application of environmental checklist. [Order DE 76-12, § 173-800-360, filed 5/14/76.] Repealed by 78-04-090 (Order DE 78-5), filed 4/4/78. Statutory Authority: RCW 43.21C.120.

173-800-370 Withdrawal of affirmative threshold determination. [Order DE 76-12, § 173-800-370, filed 5/14/76.] Repealed by 78-04-090 (Order DE 78-5), filed 4/4/78. Statutory Authority: RCW 43.21C.120.

173-800-375 Withdrawal of negative threshold determination. [Order DE 76-12, § 173-800-375, filed 5/14/76.] Repealed by 78-04-090 (Order DE 78-5), filed 4/4/78. Statutory Authority: RCW 43.21C.120.

173-800-380 Threshold determination appeal procedures. [Order DE 76-12, § 173-800-380, filed 5/14/76.] Repealed by 78-04-090 (Order DE 78-5), filed 4/4/78. Statutory Authority: RCW 43.21C.120. Later promulgation, see WAC 173-801-100.

173-800-390 Statute of limitation. [Order DE 76-12, § 173-800-390, filed 5/14/76.] Repealed by 78-04-090 (Order DE 78-5), filed 4/4/78. Statutory Authority: RCW 43.21C.120. Later promulgation, see WAC 173-801-110.

173-800-400 Duty to begin preparation of a draft EIS. [Order DE 76-12, § 173-800-400, filed 5/14/76.] Repealed by 78-04-090 (Order DE 78-5), filed 4/4/78. Statutory Authority: RCW 43.21C.120.

173-800-405 Purpose and function of a draft EIS. [Order DE 76-12, § 173-800-405, filed 5/14/76.] Repealed by 78-04-090 (Order DE 78-5), filed 4/4/78. Statutory Authority: RCW 43.21C.120.

173-800-410 Predraft consultation procedures. [Order DE 76-12, § 173-800-410, filed 5/14/76.] Repealed by 78-04-090 (Order DE 78-5), filed 4/4/78. Statutory Authority: RCW 43.21C.120.

173-800-420 Preparation of EIS by persons outside the lead agency. [Order DE 76-12, § 173-800-420, filed 5/14/76.] Repealed by 78-04-090 (Order DE 78-5), filed 4/4/78. Statutory Authority: RCW 43.21C.120.

173-800-425 Organization and style of a draft EIS. [Order DE 76-12, § 173-800-425, filed 5/14/76.] Repealed by 78-04-090 (Order DE 78-5), filed 4/4/78. Statutory Authority: RCW 43.21C.120.

173-800-440 Contents of a draft EIS. [Order DE 76-12, § 173-800-440, filed 5/14/76.] Repealed by 78-04-090 (Order DE 78-5), filed 4/4/78. Statutory Authority: RCW 43.21C.120.

173-800-442 Special considerations regarding contents of an EIS on a nonproject action. [Order DE 76-12, § 173-800-442, filed 5/14/76.] Repealed by 78-04-090 (Order DE 78-5), filed 4/4/78. Statutory Authority: RCW 43.21C.120.

173-800-444 List of elements of the environment. [Order DE 76-12, § 173-800-444, filed 5/14/76.] Repealed by 78-04-090 (Order DE 78-5), filed 4/4/78. Statutory Authority: RCW 43.21C.120.

173-800-450 Public awareness of availability of draft EIS. [Order DE 76-12, § 173-800-450, filed 5/14/76.] Repealed by 78-04-090 (Order DE 78-5), filed 4/4/78. Statutory Authority: RCW 43.21C.120.

173-800-460 Specific agencies to which draft EIS shall be sent. [Order DE 76-12, § 173-800-460, filed 5/14/76.] Repealed by 78-04-090 (Order DE 78-5), filed 4/4/78. Statutory Authority: RCW 43.21C.120.

173-800-465 Agencies possessing environmental expertise. [Order DE 76-12, § 173-800-465, filed 5/14/76.] Repealed by 78-04-090 (Order DE 78-5), filed 4/4/78. Statutory Authority: RCW 43.21C.120.

173-800-470 Cost to the public for reproduction of environmental documents. [Order DE 76-12, § 173-800-470, filed 5/14/76.] Repealed by 78-04-090 (Order DE 78-5), filed 4/4/78. Statutory Authority: RCW 43.21C.120.

173-800-480 Public hearing on a proposal—When required. [Order DE 76-12, § 173-800-480, filed 5/14/76.] Repealed by 78-04-090 (Order DE 78-5), filed 4/4/78. Statutory Authority: RCW 43.21C.120.

173-800-485 Public hearing on environmental impact of the proposal. [Order DE 76-12, § 173-800-485, filed 5/14/76.] Repealed by 78-04-090 (Order DE 78-5), filed 4/4/78. Statutory Authority: RCW 43.21C.120.

173-800-490 Public hearing on the proposal—Use of environmental documents. [Order DE 76-12, § 173-800-490, filed 5/14/76.] Repealed by 78-04-090 (Order DE 78-5), filed 4/4/78. Statutory Authority: RCW 43.21C.120.

173-800-495 Preparation of amended or new draft EIS. [Order DE 76-12, § 173-800-495, filed 5/14/76.] Repealed by 78-04-090 (Order DE 78-5), filed 4/4/78. Statutory Authority: RCW 43.21C.120.

173-800-500 Responsibilities of consulted agencies—Local agencies. [Order DE 76-12, § 173-800-500, filed 5/14/76.] Repealed by 78-04-090 (Order DE 78-5), filed 4/4/78. Statutory Authority: RCW 43.21C.120.

173-800-510 Responsibilities of consulted agencies—State agencies with jurisdiction. [Order DE 76-12, § 173-800-510, filed 5/14/76.] Repealed by 78-04-090 (Order DE 78-5), filed 4/4/78. Statutory Authority: RCW 43.21C.120.

173-800-520 Responsibilities of consulted agencies—State agencies with environmental expertise. [Order DE 76-12, § 173-800-520, filed 5/14/76.] Repealed by 78-04-090 (Order DE 78-5), filed 4/4/78. Statutory Authority: RCW 43.21C.120.

173-800-530 Responsibilities of consulted agencies—When predraft consultation has occurred. [Order DE 76-12, § 173-800-530, filed 5/14/76.] Repealed by 78-04-090 (Order DE 78-5), filed 4/4/78. Statutory Authority: RCW 43.21C.120.

173-800-535 Cost of performance of consulted agency responsibilities. [Order DE 76-12, § 173-800-535, filed 5/14/76.] Repealed by 78-04-090 (Order DE 78-5), filed 4/4/78. Statutory Authority: RCW 43.21C.120.

173-800-540 Limitations on responses to consultation. [Order DE 76-12, § 173-800-540, filed 5/14/76.] Repealed by 78-04-090 (Order DE 78-5), filed 4/4/78. Statutory Authority: RCW 43.21C.120.

173-800-545 Effect of no written comment. [Order DE 76-12, § 173-800-545, filed 5/14/76.] Repealed by 78-04-090 (Order DE 78-5), filed 4/4/78. Statutory Authority: RCW 43.21C.120.

173-800-550 Consulted agency coordination. [Order DE 76-12, § 173-800-550, filed 5/14/76.] Repealed by 78-04-090 (Order DE 78-5), filed 4/4/78. Statutory Authority: RCW 43.21C.120.

173-800-570 Preparation of the final EIS—Contents—When no critical comments received on the draft EIS. [Order DE 76-12, § 173-800-570, filed 5/14/76.] Repealed by 78-04-090 (Order DE 78-5), filed 4/4/78. Statutory Authority: RCW 43.21C.120.

173-800-580 Preparation of the final EIS—Contents—When critical comments received on the draft EIS. [Order DE 76-12, § 173-800-580, filed 5/14/76.] Repealed by 78-04-090 (Order DE 78-5), filed 4/4/78. Statutory Authority: RCW 43.21C.120.

173-800-600 Circulation of the final EIS. [Order DE 76-12, § 173-800-600, filed 5/14/76.] Repealed by 78-04-090 (Order DE 78-5), filed 4/4/78. Statutory Authority: RCW 43.21C.120.

173-800-650 Effect of an adequate final EIS prepared pursuant to NEPA. [Order DE 76-12, § 173-800-650, filed 5/14/76.] Repealed by 78-04-090 (Order DE 78-5), filed 4/4/78. Statutory Authority: RCW 43.21C.120.

173-800-652 Supplementation by a lead agency of an inadequate final NEPA EIS. [Order DE 76-12, § 173-800-652, filed 5/14/76.] Repealed by 78-04-090 (Order DE 78-5), filed 4/4/78. Statutory Authority: RCW 43.21C.120.

173-800-660 Use of previously prepared EIS for a different proposed action. [Order DE 76-12, § 173-800-660, filed 5/14/76.] Repealed by 78-04-090 (Order DE 78-5), filed 4/4/78. Statutory Authority: RCW 43.21C.120.

173-800-690 Use of lead agency's EIS by other acting agencies for the same proposal. [Order DE 76-12, § 173-800-690, filed 5/14/76.] Repealed by 78-04-090 (Order DE 78-5), filed 4/4/78. Statutory Authority: RCW 43.21C.120.

173-800-695 Draft and final supplements to a revised EIS. [Order DE 76-12, § 173-800-695, filed 5/14/76.] Repealed by 78-04-090 (Order DE 78-5), filed 4/4/78. Statutory Authority: RCW 43.21C.120.

173-800-710 EIS combined with existing planning and review processes. [Order DE 76-12, § 173-800-710, filed 5/14/76.] Repealed by 78-04-090 (Order DE 78-5), filed 4/4/78. Statutory Authority: RCW 43.21C.120.

173-800-810 Responsibility of agencies—Amendments to this chapter. [Order DE 76-12, § 173-800-810, filed 5/14/76.] Repealed by 78-04-090 (Order DE 78-5), filed 4/4/78. Statutory Authority: RCW 43.21C.120.

173-800-830 Responsibility of agencies—SEPA public information center. [Order DE 76-12, § 173-800-830, filed 5/14/76.] Repealed by 78-04-090 (Order DE 78-5), filed 4/4/78. Statutory Authority: RCW 43.21C.120.

173-800-840 Application of these guidelines to on-going actions. [Order DE 76-12, § 173-800-840, filed 5/14/76.] Repealed by 78-04-090 (Order DE 78-5), filed 4/4/78. Statutory Authority: RCW 43.21C.120.

173-800-910 Severability. [Order DE 76-12, § 173-800-910, filed 5/14/76.] Repealed by 78-04-090 (Order DE 78-5), filed 4/4/78. Statutory Authority: RCW 43.21C.120. Later promulgation, see WAC 173-801-130.

Chapter 173-801
DEPARTMENT OF ECOLOGY "SEPA" GUIDELINES

173-801-010 Authority. [Statutory Authority: RCW 43.21C.120. 78-04-090 (Order DE 78-5), § 173-801-010, filed 4/4/78. Formerly WAC 173-800-010.] Repealed by 84-13-037 (Order DE 84-21), filed 6/15/84. Statutory Authority: RCW 43.21C.120 and 43.21C.135. Later promulgation, see chapter 173-802 WAC.

173-801-020 Adoption by reference. [Statutory Authority: RCW 43.21C.120. 78-04-090 (Order DE 78-5), § 173-801-020, filed 4/4/78.] Repealed by 84-13-037 (Order DE 84-21), filed 6/15/84. Statutory Authority: RCW 43.21C.120 and 43.21C.135.

173-801-030 Purpose. [Statutory Authority: RCW 43.21C.120. 78-04-090 (Order DE 78-5), § 173-801-030, filed 4/4/78. Formerly WAC 173-800-020.] Repealed by 84-13-037 (Order DE 84-21), filed 6/15/84. Statutory Authority: RCW 43.21C.120 and 43.21C.135.

173-801-040 Effect of SEPA. [Statutory Authority: RCW 43.21C.120. 78-04-090 (Order DE 78-5), § 173-801-040, filed 4/4/78. Formerly WAC 173-800-030.] Repealed by 84-13-037 (Order DE 84-21), filed 6/15/84. Statutory Authority: RCW 43.21C.120 and 43.21C.135.

173-801-045 Integration of SEPA procedures with other departmental operations. [Statutory Authority: RCW 43.21C.120. 78-04-090 (Order DE 78-5), § 173-801-045, filed 4/4/78. Formerly WAC 173-800-035.] Repealed by 84-13-037 (Order DE 84-21), filed 6/15/84. Statutory Authority: RCW 43.21C.120 and 43.21C.135.

173-801-050 Designation of responsible official. [Statutory Authority: RCW 43.21C.120. 78-04-090 (Order DE 78-5), § 173-801-050, filed 4/4/78. Formerly WAC 173-800-050.] Repealed by 84-13-037 (Order DE 84-21), filed 6/15/84. Statutory Authority: RCW 43.21C.120 and 43.21C.135.

173-801-060 Timing. [Statutory Authority: RCW 43.21C.120. 78-04-090 (Order DE 78-5), § 173-801-060, filed 4/4/78. Formerly WAC 173-800-060.] Repealed by 84-13-037 (Order DE 84-21), filed 6/15/84. Statutory Authority: RCW 43.21C.120 and 43.21C.135.

173-801-070 Summary of information which may be required of a private applicant. [Statutory Authority: RCW 43.21C.120. 78-04-090 (Order DE 78-5), § 173-801-070, filed 4/4/78. Formerly WAC 173-800-080.] Repealed by 84-13-037 (Order DE 84-21), filed 6/15/84. Statutory Authority: RCW 43.21C.120 and 43.21C.135.

173-801-080 Sensitive areas. [Statutory Authority: RCW 43.21C.120. 78-04-090 (Order DE 78-5), § 173-801-080, filed 4/4/78. Formerly WAC 173-800-140.] Repealed by 84-13-037 (Order DE 84-21), filed 6/15/84. Statutory Authority: RCW 43.21C.120 and 43.21C.135.

173-801-090 Individuals making SEPA-related determinations. [Statutory Authority: RCW 43.21C.120. 78-04-090 (Order DE 78-5), § 173-801-090, filed 4/4/78. Formerly WAC 173-800-280.] Repealed by 84-13-037 (Order DE 84-21), filed 6/15/84. Statutory Authority: RCW 43.21C.120 and 43.21C.135.

173-801-100 Threshold determination appeal procedures. [Statutory Authority: RCW 43.21C.120. 78-04-090 (Order DE 78-5), § 173-801-100, filed 4/4/78. Formerly 173-800-380.] Repealed by 84-13-037 (Order DE 84-21), filed 6/15/84. Statutory Authority: RCW 43.21C.120 and 43.21C.135.

173-801-110 Statute of limitation. [Statutory Authority: RCW 43.21C.120. 78-04-090 (Order DE 78-5), § 173-801-110, filed 4/4/78. Formerly WAC 173-800-390.] Repealed by 84-13-037 (Order DE 84-21), filed 6/15/84. Statutory Authority: RCW 43.21C.120 and 43.21C.135.

173-801-120 Coordination on combined DOE-federal action. [Statutory Authority: RCW 43.21C.120. 78-04-090 (Order DE 78-5), § 173-801-120, filed 4/4/78.] Repealed by 84-13-037 (Order DE 84-21), filed 6/15/84. Statutory Authority: RCW 43.21C.120 and 43.21C.135.

173-801-130 Severability. [Statutory Authority: RCW 43.21C.120. 78-04-090 (Order DE 78-5), § 173-801-130, filed 4/4/78. Formerly WAC 173-800-910.] Repealed by 84-13-037 (Order DE 84-21), filed 6/15/84. Statutory Authority: RCW 43.21C.120 and 43.21C.135.

Chapter 173-805
MODEL ORDINANCE FOR USE IN INTEGRATION OF SEPA GUIDELINES

173-805-010 Policies and authority. [Order DE 76-13, § 173-805-010, filed 6/8/76.] Repealed by 84-13-036 (Order DE 84-25), filed 6/15/84. Statutory Authority: RCW 43.21C.130. Later promulgation, see WAC 173-806-010.

173-805-020 Adoption by reference. [Statutory Authority: RCW 43.21C.130. 78-04-091 (Order DE 78-6), § 173-805-020, filed 4/4/78; Order DE 76-13, § 173-805-020, filed 6/8/76.] Repealed by 84-13-036 (Order DE 84-25), filed 6/15/84. Statutory Authority: RCW 43.21C.130. Later promulgation, see WAC 173-806-020, 173-806-065, 173-806-110, 173-806-128, 173-806-150, 173-806-155, 173-806-175, 173-806-180, 173-806-185 and 173-806-230.

173-805-030 Additional definitions. [Statutory Authority: RCW 43.21C.130. 78-04-091 (Order DE 78-6), § 173-805-030, filed 4/4/78; Order DE 76-13, § 173-805-030, filed 6/8/76.] Repealed by 84-13-036 (Order DE 84-25), filed 6/15/84. Statutory Authority: RCW 43.21C.130. Later promulgation, see WAC 173-806-030.

173-805-040 Time limits applicable to the SEPA process. [Order DE 76-13, § 173-805-040, filed 6/8/76.] Repealed by 84-13-036 (Order DE 84-25), filed 6/15/84. Statutory Authority: RCW 43.21C.130. Later promulgation, see WAC 173-806-055.

173-805-050 Environmentally sensitive areas. [Order DE 76-13, § 173-805-050, filed 6/8/76.] Repealed by 84-13-036 (Order DE 84-25), filed 6/15/84. Statutory Authority: RCW 43.21C.130. Later promulgation, see WAC 173-806-190.

173-805-060 Use of exemptions. [Order DE 76-13, § 173-805-060, filed 6/8/76.] Repealed by 84-13-036 (Order DE 84-25), filed 6/15/84. Statutory Authority: RCW 43.21C.130. Later promulgation, see WAC 173-806-080.

173-805-070 Lead agency determination and responsibilities. [Statutory Authority: RCW 43.21C.130. 78-04-091 (Order DE 78-6), § 173-805-070, filed 4/4/78; Order DE 76-13, § 173-805-070, filed 6/8/76.] Repealed by 84-13-036 (Order DE 84-25), filed 6/15/84. Statutory Authority: RCW 43.21C.130. Later promulgation, see WAC 173-806-050.

173-805-080 Transfer of lead agency status to a state agency. [Order DE 76-13, § 173-805-080, filed 6/8/76.] Repealed by 84-13-036 (Order DE 84-25), filed 6/15/84. Statutory Authority: RCW 43.21C.130. Later promulgation, see WAC 173-806-053.

173-805-090 Environmental checklist. [Order DE 76-13, § 173-805-090, filed 6/8/76.] Repealed by 84-13-036 (Order DE 84-25), filed 6/15/84. Statutory Authority: RCW 43.21C.130. Later promulgation, see WAC 173-806-090.

173-805-100 Preparation of EIS. [Order DE 76-13, § 173-805-100, filed 6/8/76.] Repealed by 84-13-036 (Order DE 84-25), filed 6/15/84. Statutory Authority: RCW 43.21C.130. Later promulgation, see WAC 173-806-120.

173-805-105 Additional elements to be covered in an EIS. [Order DE 76-13, § 173-805-105, filed 6/8/76.] Repealed by 84-13-036 (Order DE 84-25), filed 6/15/84. Statutory Authority: RCW 43.21C.130. Later promulgation, see WAC 173-806-125.

173-805-110 Designation of official to perform consulted agency responsibilities for the city/county. [Order DE 76-13, § 173-805-110, filed 6/8/76.] Repealed by 84-13-036 (Order DE 84-25), filed 6/15/84. Statutory Authority: RCW 43.21C.130. Later promulgation, see WAC 173-806-140.

173-805-115 Designation of responsible official. [Order DE 76-13, § 173-805-115, filed 6/8/76.] Repealed by 84-13-036 (Order DE 84-25), filed 6/15/84. Statutory Authority: RCW 43.21C.130. Later promulgation, see WAC 173-806-040.

173-805-120 (Optional) SEPA public information center. [Statutory Authority: RCW 43.21C.130. 78-04-091 (Order DE 78-

6), § 173-805-120, filed 4/4/78; Order DE 76-13, § 173-805-120, filed 6/8/76.] Repealed by 84-13-036 (Order DE 84-25), filed 6/15/84. Statutory Authority: RCW 43.21C.130.

173-805-121 Responsibility of agencies—SEPA public information. [Statutory Authority: RCW 43.21C.130. 78-04-091 (Order DE 78-6), § 173-805-121, filed 4/4/78.] Repealed by 84-13-036 (Order DE 84-25), filed 6/15/84. Statutory Authority: RCW 43.21C.130.

173-805-125 Regional SEPA public information center. [Order DE 76-13, § 173-805-125, filed 6/8/76.] Repealed by 78-04-091 (Order DE 78-6), filed 4/4/78. Statutory Authority: RCW 43.21C.130.

173-805-130 Fees. [Statutory Authority: RCW 43.21C.130. 78-04-091 (Order DE 78-6), § 173-805-130, filed 4/4/78; Order DE 76-13, § 173-805-130, filed 6/8/76.] Repealed by 84-13-036 (Order DE 84-25), filed 6/15/84. Statutory Authority: RCW 43.21C.130. Later promulgation, see WAC 173-806-200.

173-805-135 Notice/statute of limitations. [Order DE 76-13, § 173-805-135, filed 6/8/76.] Repealed by 84-13-036 (Order DE 84-25), filed 6/15/84. Statutory Authority: RCW 43.21C.130. Later promulgation, see WAC 173-806-173.

173-805-140 Severability. [Order DE 76-13, § 173-805-140, filed 6/8/76.] Repealed by 84-13-036 (Order DE 84-25), filed 6/15/84. Statutory Authority: RCW 43.21C.130. Later promulgation, see WAC 173-806-220.

Chapter 173-03 WAC
PUBLIC RECORDS

WAC

173-03-010 What is the purpose of this chapter?
173-03-020 How are specific terms defined in this chapter?
173-03-030 How is the department of ecology organized?
173-03-040 How do I get access to the public records of the department of ecology?
173-03-050 What records are retained and how are they indexed?
173-03-060 How do I request a public record?
173-03-070 How much will it cost me to view a public record?
173-03-080 What happens when the department denies a public records request?
173-03-090 What do I do if I object to the department's denial to review a public record?
173-03-100 How does the department protect public records?

WAC 173-03-010 What is the purpose of this chapter? The purpose of this chapter is to implement the requirements of RCW 42.17.250 - 42.17.340 relating to public records.

[Statutory Authority: RCW 42.17.250. 98-16-052 (Order 98-12), § 173-03-010, filed 7/31/98, effective 8/31/98. Statutory Authority: RCW 43.17.060 and 42.17.260. 90-21-119 (Order 90-37), § 173-03-010, filed 10/23/90, effective 11/23/90. Statutory Authority: RCW 42.17.250 - 42.17.340. 78-02-041 (Order DE 77-35), § 173-03-010, filed 1/17/78.]

WAC 173-03-020 How are specific terms defined in this chapter? (1) The terms "person," "public record," and "writing" shall have the meanings as stated in RCW 42.17.020.

(2) "Department" means the department of ecology.

(3) "Director" means the director of the department.

(4) "Public records officer" means the employee designated as such by the department.

(5) "Designee" means the employee of the department designated by the director or the public records officer to serve as the public records coordinator at the headquarters offices or at each of the regional offices in the absence of the officer.

[Statutory Authority: RCW 42.17.250. 98-16-052 (Order 98-12), § 173-03-020, filed 7/31/98, effective 8/31/98. Statutory Authority: RCW 43.17.060 and 42.17.260. 90-21-119 (Order 90-37), § 173-03-020, filed 10/23/90, effective 11/23/90. Statutory Authority: RCW 42.17.250 - 42.17.340. 78-02-041 (Order DE 77-35), § 173-03-020, filed 1/17/78.]

WAC 173-03-030 How is the department of ecology organized? (1) Headquarters office.

(a) The headquarters office is located at 300 Desmond Drive, Lacey, Washington. The mailing address for the headquarters office is:

Department of Ecology
P.O. Box 47600
Olympia, Washington 98504-7600

The mailing address for the nuclear waste management program's Hanford project is:

Nuclear Waste Management
1315 W. 4th Ave.
Kennewick, WA 99336

(b) The offices of the director, deputy director(s), program managers and other agency officials are located in the headquarters office.

(c) The titles of the executive staff are as follows:

Chief financial officer for financial services.

Administrative services manager for administrative services.

Director for intergovernmental relations.

Director for employee services.

Director for communications and education.

Assistant administrator for spills prevention, preparedness and response.

(2) The program offices located in the headquarters office are:

(a) Air quality;

(b) Water resources;

(c) Water quality;

(d) Toxics cleanup;

(e) Nuclear waste;

(f) Solid waste and financial assistance;

(g) Hazardous waste and toxics reductions;

(h) Environmental investigations and laboratory services; and

(i) Shorelands and environmental assistance.

(3) Regional offices and their geographical jurisdictions are as follows:

(a) Northwest regional office (Whatcom, Skagit, Snohomish, San Juan, Island, King, and Kitsap counties):

3190 - 160th Avenue S.E.
Bellevue, WA 98008-5452

(b) Southwest regional office (Pierce, Thurston, Mason, Clallam, Jefferson, Grays Harbor, Pacific, Lewis, Cowlitz, Wahkiakum, Clark, and Skamania counties):

300 Desmond Drive
Lacey, WA 98503
Mailing address:
P.O. Box 47775
Olympia, Washington 98504-7775

(c) Central regional office (Okanogan, Chelan, Douglas, Kittitas, Yakima, Benton, and Klickitat counties):

15 West Yakima, Suite 200
Yakima, WA 98902-3401

(d) Eastern regional office (Ferry, Stevens, Pend Oreille, Grant, Lincoln, Spokane, Adams, Whitman, Franklin, Walla Walla, Columbia, Garfield, and Asotin counties):

N. 4601 Monroe, Suite 100
Spokane, Washington 99205-1295

[Statutory Authority: RCW 42.17.250. 98-16-052 (Order 98-12), § 173-03-030, filed 7/31/98, effective 8/31/98. Statutory Authority: RCW 42.17.250 - 42.17.340 and 1992 c 139. 92-20-116 (Order 92-37), § 173-03-030, filed 10/7/92, effective 11/7/92. Statutory Authority: RCW 43.17.060 and 42.17.260. 90-21-119 (Order 90-37), § 173-03-030, filed 10/23/90, effective 11/23/90. Statutory Authority: RCW 42.17.250 - 42.17.340. 78-02-041 (Order DE 77-35), § 173-03-030, filed 1/17/78.]

WAC 173-03-040 How do I get access to the public records of the department of ecology? (1) All public records of the department are available for public inspection and copying under these rules subject to subsections (2), (3), (4), and (5) of this section.

(2) Availability of public records is subject to the exemptions and prohibitions against disclosure contained in RCW 42.17.310, 42.17.130, 42.17.255, 42.17.260, and 90.52.020. In addition, individuals may request, and ecology may grant, confidentiality of documents from disclosure under RCW 43.21A.160 and 70.105.170.

(3) When a public record includes information which, if disclosed, would lead to an unreasonable invasion of personal privacy, and the department becomes aware of this fact, the department shall delete such information before making the record available.

(4) Public records requested may not be readily available for immediate inspection. If the requested records are not readily available, the department shall notify the requester when and where those records will be available.

(5) Public records of the department are kept by the department or state archives until scheduled for destruction by the records retention schedule in accordance with chapter 40.14 RCW. Public records subject to a request for disclosure when scheduled for destruction shall be retained by the department and may not be erased or destroyed until the request is resolved.

[Statutory Authority: RCW 42.17.250. 98-16-052 (Order 98-12), § 173-03-040, filed 7/31/98, effective 8/31/98. Statutory Authority: RCW 42.17.250 - 42.17.340 and 1992 c 139. 92-20-116 (Order 92-37), § 173-03-040, filed 10/7/92, effective 11/7/92. Statutory Authority: RCW 42.17.250 - 42.17.340. 78-02-041 (Order DE 77-35), § 173-03-040, filed 1/17/78.]

WAC 173-03-050 What records are retained and how are they indexed? The records retention schedule established by the division of state archives of the office of the secretary of state serves as an index for the identification and location of the following records:

(1) All records issued before July 1, 1990, for which the department has maintained an index;

(2) Final orders entered after June 30, 1990, that are issued in adjudicative proceedings as defined in RCW 34.05.010(1) and that contain an analysis or decision of substantial importance to the department in carrying out its duties;

(3) Declaratory orders entered after June 30, 1990, that are issued pursuant to RCW 34.05.240 and that contain an analysis or decision of substantial importance to the department in carrying out its duties; and

(4) Interpretive statements as defined in RCW 34.05.010(8) that were entered after June 30, 1990.

The records retention schedule indexes records according to the originating program or section, and then the record series title. Each title is further identified by a statement of function or purpose, and the retention period. The records retention schedule is available to the public for inspection and copying. With the assistance of the public records officer or designee, any person can obtain access to public records of the department using the records retention schedule.

A separate index of policy statements as defined in RCW 34.05.010(4) entered after June 30, 1990, shall be maintained by the department's policy manual coordinator or designees.

[Statutory Authority: RCW 42.17.250. 98-16-052 (Order 98-12), § 173-03-050, filed 7/31/98, effective 8/31/98. Statutory Authority: RCW 43.17.060 and 42.17.260. 90-21-119 (Order 90-37), § 173-03-050, filed 10/23/90, effective 11/23/90. Statutory Authority: RCW 42.17.250 - 42.17.340. 78-02-041 (Order DE 77-35), § 173-03-050, filed 1/17/78.]

WAC 173-03-060 How do I request a public record? (1) All requests for inspection or copying made in person at a department office shall be made on a form substantially as follows:

REQUEST FOR PUBLIC RECORDS

Date of Request ..... Time of Request .....
Name .....
Address .....
.....
Description of Records:
.....
.....

I understand that if a list of individuals is provided me by the Department of Ecology, it will neither be used to promote the election of an official nor promote nor oppose a ballot proposition as prohibited by RCW 42.17.130 nor for commercial purposes nor give or provide access to material to others for commercial purposes as prohibited by RCW 42.17.260(9).

I understand that I will be charged the amount necessary to reimburse the department's cost for copying.

.....
Signature

Number of pages to be copied		.....
Number of copies per page		.....
Charge per copy	$	.....
Special copy work charge	$	.....
Staff time charge	$	.....
Total charge	$	.....

(2) You may request records in person at a department of ecology office between the hours of 8:00 a.m. to 12:00 noon and 1:00 p.m. to 4:30 p.m., Monday through Friday, excluding legal holidays.

(3) If you make your request by mail, your request must contain the following information:

(a) The name and address of the person making the request and the organization the person represents;

(b) The time of day and calendar date on which the person wishes to inspect the public records;

(c) A description of the public records requested;

(d) A statement whether access to copying equipment is desired;

(e) A phone number where the person can be reached in case the public records officer or designate needs to contact the person for further description of the material or any other reason.

(f) A statement that the record will not be used for commercial purposes.

(4) The department must receive all requests at least five business days before the requested date of inspection to allow the public records officer or designee to make certain the requested records are available and not exempt and, if necessary, to contact the person requesting inspection. The department will process all requests in a timely manner. However, large requests or requests for public records maintained offsite may require more than five business days to prepare. The department will respond to your request within five business days of receiving it, by either:

(a) Providing the record;

(b) Acknowledging that the department has received the request and providing a reasonable estimate of the time the department will require to respond to the request; or

(c) Denying the public record request.

Additional time required to respond to a request may be based upon the need to clarify the intent of the request, to locate and assemble the information requested, to notify third persons or agencies affected by the request, or to determine whether any of the information requested is exempt and that a denial should be made as to all or part of the request. In acknowledging receipt of a public record request that is unclear, the department may ask the requestor to clarify what information the requestor is seeking. If the requestor fails to clarify the request, the agency need not respond to it.

(5) The department may in its discretion fill requests made by telephone or facsimile copy (fax).

[Statutory Authority: RCW 42.17.250. 98-16-052 (Order 98-12), § 173-03-060, filed 7/31/98, effective 8/31/98. Statutory Authority: RCW 42.17.250 - 42.17.340 and 1992 c 139. 92-20-116 (Order 92-37), § 173-03-060, filed 10/7/92, effective 11/7/92. Statutory Authority: RCW 43.17.060 and 42.17.260. 90-21-119 (Order 90-37), § 173-03-060, filed 10/23/90, effective 11/23/90. Statutory Authority: RCW 42.17.250 - 42.17.340. 78-02-041 (Order DE 77-35), § 173-03-060, filed 1/17/78.]

WAC 173-03-070 How much will it cost me to view a public record? The department does not charge a fee for the inspection of public records. The department will charge an amount necessary to reimburse its costs for providing copies of records. This amount shall be reviewed from time to time by the department, and shall represent the costs of providing copies of public records and for use of the department's copy equipment, including staff time spent copying records, preparing records for copying, and restoring files. This charge is the amount necessary to reimburse the department for its actual costs for copying and is payable at the time copies are furnished. The charge for special copy work of nonstandard public records shall reflect the total cost, including the staff time necessary to safeguard the integrity of these records.

[Statutory Authority: RCW 42.17.250. 98-16-052 (Order 98-12), § 173-03-070, filed 7/31/98, effective 8/31/98. Statutory Authority: RCW 42.17.250 - 42.17.340 and 1992 c 139. 92-20-116 (Order 92-37), § 173-03-070, filed 10/7/92, effective 11/7/92. Statutory Authority: RCW 43.17.060 and 42.17.260. 90-21-119 (Order 90-37), § 173-03-070, filed 10/23/90, effective 11/23/90. Statutory Authority: RCW 42.17.250 - 42.17.340. 78-02-041 (Order DE 77-35), § 173-03-070, filed 1/17/78.]

WAC 173-03-080 What happens when the department denies a public records request? When the department refuses, in whole or part, a request for inspection of any public record, it must include a statement of the specific exemption authorizing the refusal and a brief explanation of how the exemption applies to the record withheld.

[Statutory Authority: RCW 42.17.250. 98-16-052 (Order 98-12), § 173-03-080, filed 7/31/98, effective 8/31/98. Statutory Authority: RCW 42.17.250 - 42.17.340. 78-02-041 (Order DE 77-35), § 173-03-080, filed 1/17/78.]

WAC 173-03-090 What do I do if I object to the department's denial to review a public record? (1) Any person who objects to the refusal of a request for a public record may petition for prompt review of that decision by submitting a written request for review. The written request shall specifically refer to the written statement by the public records officer or designee which constituted or accompanied the refusal.

(2) Immediately after receiving a written request for review of a decision denying a public record, the public records officer or other staff member denying the request shall refer it to the director or the director's delegate. The director or delegate shall immediately consider the matter and either affirm or reverse the refusal. The final decision shall be sent to the objecting person within two business days following receipt of the petition for review.

[Statutory Authority: RCW 42.17.250. 98-16-052 (Order 98-12), § 173-03-090, filed 7/31/98, effective 8/31/98. Statutory Authority: RCW 42.17.250 - 42.17.340. 78-02-041 (Order DE 77-35), § 173-03-090, filed 1/17/78.]

WAC 173-03-100 How does the department protect public records? In order to adequately protect the public records of the department, you must comply with the following guidelines while inspecting public records:

(1) You may not remove any public record from the department's premises.

(2) You must have a designated department employee present while you are inspecting a public record.

(3) You may not mark or deface a public record in any manner during inspection.

(4) You may not dismantle public records which are maintained in a file or jacket, or in chronological or other filing order, or those records which, if lost or destroyed, would constitute excessive interference with the department's essential functions.

(5) Access to file cabinets, shelves, vaults, or other storage areas is restricted to department personnel, unless other arrangements are made with the public records officer or designee.

[Statutory Authority: RCW 42.17.250. 98-16-052 (Order 98-12), § 173-03-100, filed 7/31/98, effective 8/31/98. Statutory Authority: RCW 42.17.250 - 42.17.340 and 1992 c 139. 92-20-116 (Order 92-37), § 173-03-100, filed 10/7/92, effective 11/7/92. Statutory Authority: RCW 43.17.060 and 42.17.260. 90-21-119 (Order 90-37), § 173-03-100, filed 10/23/90, effective 11/23/90. Statutory Authority: RCW 42.17.250 - 42.17.340. 78-02-041 (Order DE 77-35), § 173-03-100, filed 1/17/78.]

Chapter 173-04 WAC
PRACTICE AND PROCEDURE

WAC

173-04-010 Hearings boards.
173-04-020 Uniform procedural rules.

WAC 173-04-010 Hearings boards. Appeals from decisions and orders of the department of ecology are under the jurisdiction of the pollution control hearings board. Practice and procedure before the pollution control hearings board is governed by the provisions of chapter 371-08 WAC. Declaratory proceedings under the Shoreline Management Act of 1971 (section 18(4), chapter 286, Laws of 1971 ex. sess.) are under the jurisdiction of the shorelines hearings board.

[Order DE 71-14, § 173-04-010, filed 9/3/71.]

WAC 173-04-020 Uniform procedural rules. In those contested cases, declaratory proceedings, and requests for rule making in which the department of ecology has authority to conduct hearings, practice and procedure shall be in accordance with those uniform rules promulgated by the code reviser and codified as chapter 1-08 WAC as now written or as hereafter amended.

[Order DE 71-14, § 173-04-020, filed 9/3/71.]

Chapter 173-06 WAC
DELEGATION OF POWERS

WAC

173-06-050 Regulations.
173-06-100 Introduction.
173-06-110 Definitions.
173-06-120 Delegation.
173-06-130 Director's powers.

DISPOSITION OF SECTIONS FORMERLY CODIFIED IN THIS CHAPTER

173-06-010 Introduction. [Order DE 71-13, § 173-06-010, filed 9/8/71.] Repealed by 95-07-058 (Order 94-45), filed 3/9/95, effective 4/9/95. Statutory Authority: RCW 43.21A.090.

173-06-020 Definitions. [Order DE 71-13, § 173-06-020, filed 9/8/71.] Repealed by 95-07-058 (Order 94-45), filed 3/9/95, effective 4/9/95. Statutory Authority: RCW 43.21A.090.

173-06-030 Delegation. [Statutory Authority: Chapter 43.21A RCW. 89-11-021 and 90-07-014 (Order 89-6 and 89-6A), § 173-06-030, filed 5/11/89 and 3/13/90, effective 4/13/90. Statutory Authority: RCW 43.21A.090. 85-24-019 (Order 85-25), § 173-06-030, filed 11/26/85; Order DE 75-7, § 173-06-030, filed 5/16/75; Order DE 71-13, § 173-06-030, filed 9/8/71.] Repealed by 95-07-058 (Order 94-45), filed 3/9/95, effective 4/9/95. Statutory Authority: RCW 43.21A.090.

173-06-040 Director's powers. [Order DE 71-13, § 173-06-040, filed 9/8/71.] Repealed by 95-07-058 (Order 94-45), filed 3/9/95, effective 4/9/95. Statutory Authority: RCW 43.21A.090.

173-06-060 NPDES delegation. [Statutory Authority: RCW 43.21A.090. 79-08-034 (Order DE 79-10), § 173-06-060, filed 7/16/79; Order DE 77-12, § 173-06-060, filed 8/2/77.] Repealed by 80-17-044 (Order DE 80-47), filed 11/19/80. Statutory Authority: RCW 43.21A.090.

173-06-065 NPDES delegation. [Statutory Authority: RCW 43.21A.090. 81-24-033 (Order DE 81-41), § 173-06-065, filed 11/25/81; 81-09-056 (Order DE 81-7), § 173-06-065, filed 4/17/81.] Repealed by 84-20-042 (Order DE 84-39), filed 9/27/84. Statutory Authority: RCW 43.21A.060, 43.21A.080 and 43.21A.090.

WAC 173-06-050 Regulations. Nothing in this chapter shall be construed as a delegation of authority to adopt, amend or repeal any rule or regulation. The power to adopt, amend or repeal rules or regulations rests with the director, or in his absence, the deputy director.

[Order DE 71-13, § 173-06-050, filed 9/8/71.]

WAC 173-06-100 Introduction. Under the provisions of RCW 43.21A.090, the director of ecology may delegate the performance of his or her powers, duties, and functions, other than those relating to the adoption, amendment or rescission of rules and regulations, to employees of the department whenever that appears desirable to fulfill the purposes of the laws implemented by the department.

[Statutory Authority: RCW 43.21A.090. 95-07-058 (Order 94-45), § 173-06-100, filed 3/9/95, effective 4/9/95.]

WAC 173-06-110 Definitions. As used in this chapter:

(1) "Department" shall mean the department of ecology;

(2) "Director" shall mean the person bearing such title created pursuant to RCW 43.21A.050. "Deputy director" shall mean the person bearing such title created pursuant to RCW 43.21A.100.

[Statutory Authority: RCW 43.21A.090. 95-07-058 (Order 94-45), § 173-06-110, filed 3/9/95, effective 4/9/95.]

WAC 173-06-120 Delegation. (1) The authority delegated hereby includes the authority to:

(a) Act on behalf of the department in the administration of programs and all other duties assigned the department; and

(b) Approve or deny engineering reports, plans and specifications, or amendments thereto, required to be submitted to the department.

Delegated powers include, but are not limited to, the authority to issue orders, directives or decisions reviewable before appropriate administrative or judicial bodies. The delegation established by this rule shall be effective when the person to whom delegation is made has been issued a letter from the director authorizing him or her to act for the department with respect to the specifics set forth in such letter.

(2) Whenever an individual is delegated the authority to approve or deny engineering reports, plans and specifications, or amendments thereto, such approval or denial must be based on engineering services provided by a registered professional engineer in accordance with current state law.

(3) Any person who has been properly designated to serve in a temporary or acting capacity for an employee who has been delegated authority under this rule shall have the same delegated authority as the individual permanently holding the position.

(4) In the absence of a person who has been delegated authority by the director, managers senior to that person may perform the delegated functions in accordance with their letters of authorization.

(5) In addition to the delegation provided for in the preceding subsections, the director may, under special circumstances, delegate in writing specific signature authority to any department employee.

(6) The authority delegated in this rule is limited to the power to act for the department in carrying out functions within the power of the department, and shall not be construed to authorize acts which are contrary to law or beyond the authority of the department.

[Statutory Authority: RCW 43.21A.090. 95-07-058 (Order 94-45), § 173-06-120, filed 3/9/95, effective 4/9/95.]

WAC 173-06-130 Director's powers. The director may perform all powers, duties and functions within the authority of the department. The delegations authorized by this chapter shall not preclude the director from exercising any of the powers, duties and functions delegated. In the director's absence, the deputy director may act as director.

[Statutory Authority: RCW 43.21A.090. 95-07-058 (Order 94-45), § 173-06-130, filed 3/9/95, effective 4/9/95.]

Chapter 173-09 WAC
COORDINATED PERMIT PROCESS

WAC

173-09-010	Authority and purpose.
173-09-020	Definitions.
173-09-030	Designation of a coordinating permit agency.
173-09-040	Brief adjudicative proceedings—Expedited appeal of coordinated permit process timelines.

WAC 173-09-010 Authority and purpose. (1) This chapter is promulgated under the authority of chapter 90.60 RCW (Environmental permit assistance).

(2) The purpose of this chapter is to establish rules to implement the state coordinated permit process.

(3) The purpose of the coordinated permit process is to:

(a) Assist individuals, businesses, and public agencies in complying with environmental quality laws in an expedited fashion, without reducing protection of public health and safety and the environment;

(b) Promote effective dialogue and facilitate the transfer and clarification of technical information, while preventing duplication and minimizing potential conflict between applicable regulatory procedures;

(c) Ensure, where possible, that applicable permit requirements, criteria, and hearings and comment periods are identified, integrated, coordinated, and run concurrently, rather than consecutively;

(d) Promote active coordination of all applicable regulatory and land-use permitting procedures; and

(e) Provide consolidated, effective, and easier opportunities for members of the public to receive information and present their views about proposed projects.

(4) The coordinated permit process is optional for project proponents and intended to provide predictability, administrative consolidation, and, where possible, consolidation of appeal processes. The process is not intended to replace individual laws, nor diminish the substantive decision-making role of individual jurisdictions. The process is also not intended to limit nor abridge the authority of individual permit agencies to make all decisions on all nonprocedural matters regarding their respective component permits, including but not limited to, the determination of permit application completeness, permit approval or approval with conditions, or permit denial.

(5) This chapter implements the requirements of RCW 90.60.140 and establishes an expedited appeals process pursuant to the state Administrative Procedure Act and the provisions of RCW 34.05.425, 34.05.458, and 34.05.482 through 34.05.494 regarding brief adjudicative proceedings.

[Statutory Authority: RCW 90.60.140. 96-15-104, § 173-09-010, filed 7/22/96, effective 8/22/96. Statutory Authority: RCW 90.60.040. 95-24-040 (Order 95-13), § 173-09-010, filed 11/30/95, effective 12/31/95.]

WAC 173-09-020 Definitions. The following definitions shall apply throughout this chapter, unless the context clearly requires otherwise:

(1) "Applicant" means any person or entity, including an agency, applying for a permit from a permit agency. For the purposes of this chapter, "applicant," "project applicant," and "project proponent" are synonymous terms.

(2) "Center" means the permit assistance center established in the department by RCW 90.60.030.

(3) "Coordinating permit agency" means the permit agency that is the lead agency for purposes of chapter 43.21C RCW (State Environmental Policy Act (SEPA)), or has the greatest overall jurisdiction over a project as determined under WAC 173-09-030 (coordinated permit process rule).

(4) "Department" means the department of ecology.

(5) "Lead agency" means the agency with the main responsibility for complying with SEPA's procedural requirements as set forth in WAC 197-11-758 (SEPA rules).

(6) "Participating permit agency" means a permit agency, other than the coordinating permit agency, that is responsible for the issuance of a permit for a project.

(7) "Permit" means any license, certificate, registration, permit, or other form of authorization required by a permit agency to engage in a particular activity.

(8) "Permit agency" means:

(a) The department of ecology, an air pollution control authority, the department of natural resources, the department of fish and wildlife, and the department of health; and

(b) Any other state or federal agency or county, city, or town that participates at the request of the permit applicant and upon the agency's agreement to be subject to this chapter.

(9) "Permit assistance center" or "center" means the center established in the department of ecology by RCW 90.60.030 (Permit assistance center—Duties).

(10) "Petitioner" means an applicant, person, or party filing an appeal pursuant to RCW 90.60.140.

(11) "Presiding officer" means the director of the department or any employee of the department designated in writing by the director as presiding officer.

(12) "Project" means a proposed activity, the conduct of which requires permits from one or more permit agencies.

(13) "Service" means posting in the United States mail, properly addressed, postage prepaid; telefacsimile transmission; or personal service. Service by mail is complete upon deposit in the United States mail. Service by telefacsimile transmission is effective only where copies are simultaneously mailed or sent by commercial service delivery company.

(14) "Time limits" mean project-specific permit decision dates set and agreed to by the applicant, the coordinating permit agency, each permit agency, and each participating permit agency, pursuant to RCW 90.60.070.

(15) "Timely action" means an action taken within the time limits, as defined by subsection (14) of this section.

[Statutory Authority: RCW 90.60.140. 96-15-104, § 173-09-020, filed 7/22/96, effective 8/22/96. Statutory Authority: RCW 90.60.040. 95-24-040 (Order 95-13), § 173-09-020, filed 11/30/95, effective 12/31/95.]

WAC 173-09-030 Designation of a coordinating permit agency. (1) Applicant information requirements. Upon request by an applicant, the permit assistance center shall designate a coordinating permit agency. The applicant shall provide the permit assistance center with the following:

(a) Description of the proposed project, including the location and legal description (i.e., parcel number, and section, township, and range);

(b) Preliminary list of the permits that the proposed project may require;

(c) Identity of the participating permit agencies;

(d) Identity of any public agency that has been or may be designated the lead agency for the proposed project pursuant to chapter 43.21C RCW (SEPA); and

(e) Any additional or more detailed information requested by the center necessary to make the designation. Such information may include, but is not limited to:

(i) Site plan for the proposed project showing where activities are proposed relative to known sensitive areas, habitats, and critical areas; and

(ii) Proposed timing of construction and operation of the project.

(2) Designation criteria and guidance.

(a) If a permit agency is the lead agency under the criteria in WAC 197-11-926 through 197-11-940 (SEPA rules), that permit agency shall be the coordinating permit agency.

(b) If a permit agency has assumed lead agency status under WAC 197-11-942 (SEPA rules), that permit agency shall be the coordinating permit agency.

(c) If two or more permit agencies have agreed to share lead agency status under WAC 197-11-944 (SEPA rules), one of the permit agencies shall, upon agreement with the other permit agency(ies) with whom lead agency status is shared, be the coordinating permit agency.

(d) If none of the permit agencies are lead agency for purposes of chapter 43.21C RCW (SEPA), then the coordinating permit agency shall be the permit agency with the greatest overall jurisdiction over the proposed project. In identifying the permit agency with the greatest overall jurisdiction the center shall consider the following factors:

(i) The types of facilities or activities that make up the proposed project;

(ii) The types of public health and safety and environmental concerns that should be considered in issuing permits for the proposed project;

(iii) The environmental media that may be affected by the proposed project, the extent of those potential effects, and the environmental protection measures that may be taken to prevent the occurrence of, or to mitigate, those potential effects;

(iv) The regulatory activity that is of greatest importance in preventing or mitigating the effects that the proposed project may have on public health and safety or the environment;

(v) The statutory and regulatory requirements that apply to the proposed project and the complexity of those requirements;

(vi) The extent to which a permit agency will assume a major coordination role due to other processes;

(vii) The extent to which the lead agency determination criteria identified in WAC 197-11-946(2) (SEPA rules) are applicable; and

(viii) The extent to which a permit agency has permit coordination expertise.

(e) In designating the coordinating permit agency, the permit assistance center may convene a scoping meeting of the likely coordinating permit agency and participating permit agencies in order to designate the coordinating permit agency.

[Statutory Authority: RCW 90.60.040. 95-24-040 (Order 95-13), § 173-09-030, filed 11/30/95, effective 12/31/95.]

WAC 173-09-040 Brief adjudicative proceedings—Expedited appeal of coordinated permit process timelines. (1) *When will the department use brief adjudicative proceedings?* The department herein adopts by rule the provisions of RCW 34.05.425, 34.05.458, and 34.05.482 through 34.05.494, except where otherwise prohibited by law, for the following: Failure by a permit agency to take timely action on the issuance or denial of a permit in accordance with the time limits established pursuant to RCW 90.60.070. The department will use brief adjudicative proceedings for this matter where:

(a) Their use will not violate any provision of law;

(b) Protection of the public interest does not require the department to give notice and an opportunity to participate to persons other than the parties;

(c) The matter is entirely within one or more categories for which the department has, by rule, adopted the provisions of RCW 34.05.425, 34.05.458, and 34.05.482 through 34.05.494; and

(d) The issue and interests involved in the controversy do not warrant use of the procedures of RCW 34.05.413 through 34.05.479.

(2) *Who will preside over brief adjudicative proceedings held by the department?* The director of the department, or any employee of the department designated in writing by the director, may serve as presiding officer over matters which

the department has by rule adopted the provisions of RCW 34.05.425, 34.05.458, and 34.05.482 through 34.05.494.

(3) *How are brief adjudicative proceedings conducted at the department?*

(a) What may be appealed? The following may be appealed: Failure by a permit agency to take timely action on the issuance or denial of a permit in accordance with the time limits established pursuant to RCW 90.60.070.

(b) How is an appeal initiated? Requests for appeal shall:

(i) Be in writing;

(ii) Be plainly labeled "request for expedited appeal of coordinated permit process timelines";

(iii) Specify the factual basis for the appeal and the issue to be adjudicated in the proceeding;

(iv) Identify the subject project or site;

(v) Provide the name, mailing address, telephone number, and fax number (if available) of the petitioner and, if known, the applicant (if different from the petitioner);

(vi) Include a statement, followed by the petitioner's signature, that the petitioner has read the request for appeal and believes the contents to be true; and

(vii) Be simultaneously served upon the following parties:

(A) The Washington State Department of Ecology; Permit Assistance Center; PO Box 47600; Olympia, WA 98504-7600;

(B) The coordinating permit agency for the subject project;

(C) The permit agencies and participating permit agencies party to the coordinated permit process timeline agreement established for the subject project or site pursuant to RCW 90.60.070; and

(D) The applicant, if different from the petitioner, for the subject project.

(c) Who may initiate an appeal? A request for appeal may be initiated by a petitioner pursuant to RCW 90.60.140.

(d) When may an appeal be initiated? A request for appeal may be initiated between the period of time when a permit agency or participating permit agency fails to act on the issuance or denial of a permit, as set forth in a coordinated permit process timeline agreement established pursuant to RCW 90.60.070, and when that permit agency or participating permit agency does act.

(e) What happens after the department receives a request for appeal? After the department receives a request for appeal, the presiding officer:

(i) Shall, within seven days following the date of service of the petitioner's request for appeal, serve upon the petitioner and parties identified in (b)(vii) of this subsection a written statement that:

(A) Acknowledges receipt of the petitioner's request for appeal;

(B) Requests submittal of the petitioner's and parties' written views on the matter; and

(C) States that submittal of written views must be made to the presiding officer within fourteen days following the date of service of such request for written views;

(ii) May, within seven days following the date for submittal of written views, either:

(A) Request that the petitioner and the parties submit additional written information within ten days following the date of service of such request for additional written information; or

(B) Require the parties to present their views on the matter in person at a hearing to be held not more than twenty days following the date of service of such requirement for a hearing, unless the date for such a hearing is extended by mutual agreement of the parties; and

(iii) Shall, within ten days following the later of either the date for submittal of written views per (e)(i) of this subsection, or the date for submittal of additional written information per (e)(ii)(A) of this subsection, or the date for a hearing per (e)(ii)(B) of this subsection, serve upon the petitioner and the parties:

(A) A decision on the matter and a brief written statement explaining the reason for that decision; and

(B) A statement that the decision may be appealed to the pollution control hearings board pursuant to RCW 43.21B.110 (1)(f), 43.21B.230, and 43.21B.310(1).

(4) *What happens after a brief adjudicative proceeding decision?* The center shall adopt the findings of the presiding officer, and if necessary implement the provisions of RCW 90.60.140.

(5) *Is there an official record of the proceeding?* The department record of brief adjudicative proceedings shall, at a minimum, consist of:

(a) The petitioner's request for appeal;

(b) All documents and written material submitted by the petitioner and parties at the request of the presiding officer;

(c) Any recording or written transcript made pursuant to a hearing requested and held by the presiding officer;

(d) All other documentation considered by the presiding officer in deciding the case; and

(e) All decisions issued in the case.

(6) *Is there a right to appeal a brief adjudicative proceeding decision?* A decision of the presiding officer may be appealed to the pollution control hearings board within thirty days pursuant to RCW 43.21B.110 (1)(f), 43.21B.230, and 43.21B.310(1).

(7) *Do the state's model rules of procedure apply to brief adjudicative proceedings held by the department?* For purposes of this chapter, the model rules of procedure contained in chapter 10-08 WAC are adopted by reference except where they are not consistent with the rules of this chapter.

[Statutory Authority: RCW 90.60.140. 96-15-104, § 173-09-040, filed 7/22/96, effective 8/22/96.]

Chapter 173-15 WAC

PERMITS FOR OIL OR NATURAL GAS EXPLORATION ACTIVITIES CONDUCTED FROM STATE MARINE WATERS

WAC

173-15-010	Authority and purpose.
173-15-020	Definitions.
173-15-030	Exploration activity permit system.

DISPOSITION OF SECTIONS FORMERLY CODIFIED IN THIS CHAPTER

173-15-040 Penalties. [Statutory Authority: RCW 90.58.550, 90.58.560 and 1983 c 138. 84-01-028 (Order DE 83-35), § 173-15-040, filed 12/12/83.] Repealed by 87-16-101 (Order DE 87-09), filed 8/5/87. Statutory Authority: RCW 90.58.200.

WAC 173-15-010 Authority and purpose. These rules are adopted under RCW 90.58.550(6) for the purpose of establishing the basic requirements for the exploration activity permit system.

[Statutory Authority: RCW 90.58.550(6). 00-16-080 (Order 00-12), § 173-15-010, filed 7/28/00, effective 8/28/00. Statutory Authority: RCW 90.58.550, 90.58.560 and 1983 c 138. 84-01-028 (Order DE 83-35), § 173-15-010, filed 12/12/83.]

WAC 173-15-020 Definitions. The following definitions apply:

(1) "Department" means the department of ecology.

(2) "Exploration activity" means reconnaissance or survey work related to gathering information about geologic features and formations underlying or adjacent to marine waters. Those activities include sonic, ultrasonic, seismic, sparker, side-scan sonar, infrared, heat sensor, chemical analysis (sniffer), or other remote sensing techniques that do not disturb the surface of the aquatic lands, as well as drilling, core sampling, or other exploratory techniques that penetrate the beds underlying or adjacent to marine waters.

(3) "Marine waters" includes the waters of Puget Sound north to the Canadian border, the waters of the Strait of Juan de Fuca, the waters between the western boundary of the state and the ordinary high water mark, and related bays and estuaries. RCW 90.58.550 (1)(b).

(4) "Normal public use of the marine waters of the state" means those activities generally enjoyed by members of the public including, but not limited to, recreation, fishing (commercial and sports), navigation and commerce.

(5) "Vessel" includes ships, boats, barges, or any other floating craft. RCW 90.58.550 (1)(c).

(6) "Director" means the director of the department of ecology.

(7) "Person" means any individual, public or private corporation, agency, or other entity, except for state or federal agencies.

[Statutory Authority: RCW 90.58.550(6). 00-16-080 (Order 00-12), § 173-15-020, filed 7/28/00, effective 8/28/00. Statutory Authority: RCW 90.58.550, 90.58.560 and 1983 c 138. 84-01-028 (Order DE 83-35), § 173-15-020, filed 12/12/83.]

WAC 173-15-030 Exploration activity permit system. The permit system established by RCW 90.58.550 is as follows:

(1) Applicability.

(a) A person who desires to perform oil or natural gas exploration activities by vessel located on or within marine waters of the state shall first obtain a permit from the department.

(b) An exploration activity permit obtained under (a) of this subsection is the sole permit a person is required to obtain for exploration activity under chapter 90.58 RCW.

(c) Except as provided in (b) of this subsection, nothing in this chapter may modify any powers of local governments set forth in chapter 90.58 RCW.

(2) Exploration activity permit application.

(a) Applications for an exploration activity permit must be supplied by the department.

(b) Applications must be filed with the Shorelands and Environmental Assistance Program, Department of Ecology, P.O. Box 47600, Olympia, WA 98504-7600.

(c) No application may be processed until it is deemed complete by the department.

(d) Each application for an exploration activity permit must be accompanied by a completed environmental checklist as provided in Title 197 WAC.

(3) Processing of complete application.

(a) A complete application will be forwarded to state natural resource management agencies and local governments and Indian tribes affected by the proposed exploration activity.

(b) Comments will be requested regarding the proposed exploration activity and its compatibility with the criteria established under RCW 90.58.550(2). Normally, reviewing agencies will be allowed fifteen days from receipt of the application, as provided by the department, in which to submit comments to the department.

(4) Public notice.

(a) Upon receipt of a completed application, the department shall instruct the applicant to publish a notice of the proposed exploration activity.

(b) Notices of the proposed exploration activity must be published in the newspaper of the largest general circulation within each of the counties in which the activity is proposed.

(c) Any person wishing to express views on the proposed exploration activity will be given fifteen days to comment to the department.

(d) All notices of applications for exploration activity permits shall contain, as a minimum, the information called for in the following form:

Notice of Application for
Exploration Activity Permit

Notice is hereby given that (company name or institution) has filed an application for an exploration activity permit for oil and/or natural gas survey and reconnaissance work in (list major bodies of water) _____.

The exploration activity consists of (describe survey gear, vessel, and other equipment in sufficient detail to inform public of the nature of the operation) _____.

The exploration activity is proposed to begin on (date) and end (date).

Any person desiring to express views or to be notified of the action taken on this application should notify the department of ecology in writing of his or her interest within fifteen days of the final date of publication of this notice, which is (date). Written comments should be mailed or delivered to the Washington Department of Ecology, Shorelands and Environmental Assistance Program, P.O. Box 47600, Olym-

pia, WA 98504-7600. (360) 407-6000. Comment period deadline is (date).

(e) The applicant shall provide an affidavit to the department of ecology that the notice has been properly published in accordance with this section.

(5) Public hearing. A public hearing on the proposed exploration activity permit will be held by the department if it determines, upon consideration of factors such as location, timing, duration, method of operation, and public comments, that a hearing would assist it in implementing the intent of RCW 90.58.550(2).

(6) Department exploration activity permit decision.

(a) The department will approve an exploration activity permit application if it determines that the proposed activity meets the criteria set forth in RCW 90.58.550(2). Exploration activities may not:

(i) Interfere materially with the normal public uses of the marine waters of the state;

(ii) Interfere with activities authorized by a permit issued under RCW 90.58.140(2);

(iii) Injure the marine biota or other fish and wildlife, beds, or tidelands of the waters;

(iv) Violate water quality standards established by the department;

(v) Create a public nuisance; or

(vi) Conflict with a shoreline master program approved by the department under RCW 90.58.090 or 90.58.190.

(b) The department, as lead agency, will comply with the provisions of the State Environmental Policy Act as governed by the procedures established under chapter 43.21 RCW and its implementing rules.

(c) No application for an exploration activity permit relating to surface drilling for oil or gas in the waters of Puget Sound north to the Canadian boundary or the Strait of Juan de Fuca seaward of the ordinary high water mark may be approved by the department under this section. RCW 90.58.160.

(7) Exploration activity permit terms and conditions.

(a) The department shall place terms and conditions in the exploration activity permit as necessary to assure that the permitted activity meets the requirements of RCW 90.58.550(2).

(b) The terms and conditions may include, but are not limited to:

(i) Geographic limits on the area of operation;

(ii) Timing of the operation;

(iii) Limitations on hours of operation;

(iv) Placement of on-board observers;

(v) Use of lead boats;

(vi) Insurance or bond;

(vii) Fishermen (or other users group) notification procedures; or

(viii) Any combination of the terms and conditions in (b)(i) through (vii) of this subsection.

(8) Modifications of exploration activity permits. When a permittee seeks to modify an exploration activity permit, detailed maps or charts and text describing the nature of the modification must be submitted to the department. Modifications to the permit may be made by the department when the department determines that the changes are of a minor nature.

(9) Request for review. All requests for review of any final permit decision under RCW 90.58.550(2) and these rules are governed by the procedures established in chapter 43.21B RCW and its implementing rules.

[Statutory Authority: RCW 90.58.550(6). 00-16-080 (Order 00-12), § 173-15-030, filed 7/28/00, effective 8/28/00. Statutory Authority: RCW 90.58.550, 90.58.560 and 1983 c 138. 84-01-028 (Order DE 83-35), § 173-15-030, filed 12/12/83.]

Chapter 173-18 WAC

SHORELINE MANAGEMENT ACT—STREAMS AND RIVERS CONSTITUTING SHORELINES OF THE STATE

WAC

173-18-010	Purpose.
173-18-020	Applicability.
173-18-030	Definitions.
173-18-040	Streams and rivers.
173-18-044	Review of designations.
173-18-046	Conflicts between designations and criteria.
173-18-050	Adams County.
173-18-060	Asotin County.
173-18-070	Benton County.
173-18-080	Chelan County.
173-18-090	Clallam County.
173-18-100	Clark County.
173-18-110	Columbia County.
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173-18-130	Douglas County.
173-18-140	Ferry County.
173-18-150	Franklin County.
173-18-160	Garfield County.
173-18-170	Grant County.
173-18-180	Grays Harbor County.
173-18-190	Island County.
173-18-200	Jefferson County.
173-18-210	King County.
173-18-220	Kitsap County.
173-18-230	Kittitas County.
173-18-240	Klickitat County.
173-18-250	Lewis County.
173-18-260	Lincoln County.
173-18-270	Mason County.
173-18-280	Okanogan County.
173-18-290	Pacific County.
173-18-300	Pend Oreille County.
173-18-310	Pierce County.
173-18-320	San Juan County.
173-18-330	Skagit County.
173-18-340	Skamania County.
173-18-350	Snohomish County.
173-18-360	Spokane County.
173-18-370	Stevens County.
173-18-380	Thurston County.
173-18-390	Wahkiakum County.
173-18-400	Walla Walla County.
173-18-410	Whatcom County.
173-18-420	Whitman County.
173-18-430	Yakima County.

WAC 173-18-010 Purpose. The department of ecology, pursuant to RCW 90.58.300, is designated the state agency responsible for the program of regulation of the shorelines of the state. This chapter delimits the streams and rivers and portions thereof which constitute shorelines of the state pursuant to RCW 90.58.030 (2)(d) and (e).

[Order DE 72-13, § 173-18-010, filed 6/30/72.]

WAC 173-18-020 Applicability. The provisions of this chapter shall apply state wide.

[Order DE 72-13, § 173-18-020, filed 6/30/72.]

WAC 173-18-030 Definitions. The definitions and concepts set forth in RCW 90.58.030 shall apply as used herein.

[Order DE 72-13, § 173-18-030, filed 6/30/72.]

WAC 173-18-040 Streams and rivers. The following provisions of this chapter delimit, by county, the streams and rivers which constitute shorelines of the state as follows:

(1) Streams which constitute shorelines.

(a) Western Washington. The following provisions describe the streams in Western Washington from the point at which the stream reaches a mean annual flow of twenty cubic feet per second down to the mouth of said stream or river: *Provided,* That the stream falls at said point, within the jurisdiction of chapter 90.58 RCW.

(b) Eastern Washington. The following provisions describe the streams in Eastern Washington from the point at which the stream reaches a mean annual flow of twenty cubic feet per second down to the mouth of said stream or river: *Provided,* That the stream falls at said point, within the jurisdiction of chapter 90.58 RCW.

(2) Rivers which constitute shorelines of statewide significance.

(a) Western Washington. The following provisions describe the point on those rivers in Western Washington where the mean annual flow reaches one thousand cubic feet per second and lists said river in all counties below said point through which said river passes with a mean annual flow in excess of one thousand cubic feet per second: *Provided,* That the river falls at said point within the jurisdiction of chapter 90.58 RCW.

(b) Eastern Washington. The following provisions describe either of the following points on those rivers in Eastern Washington, whichever is farther upstream;

(i) The point at which the mean annual flow exceeds two hundred cubic feet per second, or

(ii) The lowest extremity of the first three hundred square miles of drainage area east of the crest of the Cascade Range; provided that either of said points which is utilized is within the jurisdiction of chapter 90.58 RCW.

(iii) The following provisions additionally list said river in all counties below said point through which said river passes.

(3) Streams or rivers outside the jurisdiction of chapter 90.58 RCW. In those cases where the above described points on streams or rivers fall in geographical areas outside of the jurisdiction of chapter 90.58 RCW. The following provisions list said streams or rivers in all counties downstream from the boundaries of said geographical areas. In such listing, if the body of water is a shoreline of statewide significance below said geographical area, such will be indicated in the description and by asterisk.

(4) Other data.

(a) Wherever a river of statewide significance falls within a county, it is followed by an asterisk.

(b) The following provisions set forth the name of the quadrangle maps where the stream or river is shown. The quadrangle in which the shoreline delimitation begins and the first quadrangle downstream from the county line is underlined. The quadrangle in which the shoreline of statewide significance begins is followed by an asterisk. The size, in minutes, of all quadrangle maps is designated.

(c) Where quadrangle maps are unavailable, photomaps have been used as indicated.

[Order 73-14, § 173-18-040, filed 8/27/73; Order DE 72-13, § 173-18-040, filed 6/30/72.]

WAC 173-18-044 Review of designations. The department shall review all the designations made herein at least once in every five-year period following the effective date of chapter 90.58 RCW or as frequently before then as is deemed advisable by the department, and prepare the necessary revisions to ensure that the designations conform to the policies of chapter 90.58 RCW and of chapter 173-18 WAC in the manner and form prescribed for adopting and amending rules and regulations in chapter 34.04 RCW (the Administrative Procedure Act).

[Statutory Authority: RCW 90.58.120 and 90.58.200. 80-08-052 (Order DE 80-20), § 173-18-044, filed 6/30/80.]

WAC 173-18-046 Conflicts between designations and criteria. In the event that any of the designations set forth in this chapter conflict with the criteria set forth in RCW 90.58.030(2) or in WAC 173-18-040 the criteria shall control. The designation of the stream or river shall be governed by the criteria.

[Statutory Authority: RCW 90.58.120 and 90.58.200. 80-08-052 (Order DE 80-20), § 173-18-046, filed 6/30/80.]

WAC 173-18-050 Adams County. Streams

	Stream Name	Quadrangle Name and Size	Legal Description
(1)	Cow Creek*	Karakul Hills* 7 1/2 Marengo 7 1/2 Benge 15 Ritzville S.E. 7 1/2	From mouth of Lugenbeal Creek (Sec.15, T19N, R37E) downstream thru Hallin and Cow lakes, thru Finnel Lake to mouth on Palouse River (Sec.27, T15N, R37E). This stream has a 300 square mile drainage area ending at mouth of Lugenbeal Creek.
(2)	Palouse River*	La Crosse 15 Benge 15 Starbuck 15	From Whitman County line (Sec.24, T16N, R38E) along county line downstream to Franklin County line (Sec.5, T15N, R37E), right shore only. This stream has over 300 sq. miles of drainage area.
(3)	Rock Creek*	Revera 7 1/2	From Whitman County line (Sec.12, T18N, R38E) downstream back to Whitman County line (Sec.24 & 25, same township). This stream has over 300 square miles of drainage area.

[Order 73-14, § 173-18-050, filed 8/27/73; Order DE 72-13, § 173-18-050, filed 6/30/72.]

WAC 173-18-060 Asotin County. Streams

Stream Name	Quadrangle Name and Size	Legal Description
(1) Asotin Creek (S. Fork)	Harlow Ridge 7 1/2 Potter Hill 7 1/2	From the confluence of the South Fork Asotin Creek and the Alder Gulch Stream (Sec.34, T9N, R44E) downstream to mouth at Asotin Creek (Sec.10, same township).
(2) Asotin Creek*	Potter Hill 7 1/2 Rock Pile Creek 7 1/2 Asotin 71/2	From the confluence of North and South Forks of Asotin Creek (Sec.10, T9N, R44E) downstream to mouth on Snake River near Asotin (Sec.16, T10N, R46E). This stream has a 300 square mile drainage area ending at mouth of George Creek (Sec.24, T10N, R45E).
(3) Asotin Creek (N. Fork)	Harlow Ridge 7 1/2 Potter Hill 7 1/2	From the Umatilla National Forest boundary (Sec.19, T9N, R44E) downstream to mouth at Asotin Creek (Sec.10, same township).
(4) George Creek	Asotin 7 1/2	From the confluence of George Creek and Pintler Creek (Sec.36, T10N, R45E) downstream to mouth at Asotin Creek (Sec.24, same township).
(5) Grand Ronde River*	Mountain View 7 1/2 Fields Spring 7 1/2 Black Butte 7 1/2 Flora 7 1/2	From the Washington-Oregon boundary (Sec.14, T6N, R43E) downstream to mouth at Snake River and Washington - Idaho boundary line (Sec.13, T7N, R46E). This stream has over 300 square miles of drainage area.
(6) Joseph Creek	Black Butte 7 1/2	From the Oregon-Washington state line (Sec.18, T6N, R46E) downstream to its mouth at Grande Ronde River (Sec.26, T7N, R46E).
(7) Snake River*	Jim Creek Butte 71/2 Limekiln Rapids 7 1/2 Captain John Rapids 7 1/2 Lewiston Orchards S. 7 1/2 Asotin 7 1/2 Clarkston 7 1/2 Silcott 7 1/2	From Washington - Oregon boundary (Sec.16, T6N, R47E) downstream to Garfield County line (Sec.6, T11N, R45E), left bank only. This stream has both over 300 square miles of drainage area and over 200 cfs MAF at Washington-Oregon boundary.

[Order DE 76-14, § 173-18-060, filed 5/3/76; Order 73-14, § 173-18-060, filed 8/27/73; Order DE 72-13, § 173-18-060, filed 6/30/72.]

WAC 173-18-070 Benton County. Streams

Stream Name	Quadrangle Name and Size	Legal Description
(1) Columbia River (Cont.)*	Priest Rapids 15 Richland 15 Eltopia 15	From the Yakima County line (Sec.7, T13N, R24E) downstream right bank only, to Hanford works boundary (Sec.9, same township), plus the right bank within Richland city limits (T10N, R28E; T9N, R28E; T9N, R29E). This stream has over 200 cfs MAF at Yakima County line.
(2) Glade Creek*	Blalock Island* 7 1/2	From mouth of East Fork Glade Creek (Sec.6, T5N, R25E) downstream to mouth on Columbia River (Sec.28, same township). This stream has a 300 square mile drainage area ending at East Branch Glade Creek.
(3) Yakima River (Cont.)*	Prosser 7 1/2 Whitstran 7 1/2 Corral Canyon 15 Richland 15 Badger Mtn. 7 1/2 Eltopia 7 1/2	From Benton-Yakima County line (Sec.7, T8N, R24E) down-stream to mouth on Columbia River (Sec.19, T9N, R29E). The flow exceeds 200 cfs MAF at Benton-Yakima County line.

[Order 73-14, § 173-18-070, filed 8/27/73; Order DE 72-13, § 173-18-070, filed 6/30/72.]

WAC 173-18-080 Chelan County. Streams

Stream Name	Quadrangle Name and Size	Legal Description
(1) Chelan River*	Wenatchee (AMS)* 1:250,000 Manson 7 1/2 Winesap 7 1/2 Cooper Ridge 7 1/2 Chelan 7 1/2 Chelan Falls 7 1/2	From the Lake Chelan Dam (Sec.13, T27N, R22E) downstream to Chelan Falls at mouth at Columbia River (Sec.29, T27N, R23E). The 200 cfs MAF point begins at the dam.
(2) Chiwawa River*	Holden 15 Wenatchee Lake 15 Plain*7 1/2	From Wenatchee National Forest boundary (NW1/4 Sec.27, T30N, R16E) downstream to mouth at Wenatchee River, (Sec.1, T26N, R17E) (excluding federal lands). The 200 cfs MAF point begins at (SW1/4, NE1/4 Sec.20, T28N, R17E).

Stream Name		Quadrangle Name and Size	Legal Description
(3)	Columbia River (Cont.)*	Wells Dam 7 1/2 Wenatchee 7 1/2 Rock Island 7 1/2 Malaga 7 1/2 Rock Island Dam 7 1/2	From the Okanogan County line on the Columbia River (Sec.6, T28N, R24E) downstream along the Douglas/Chelan County line to Kittitas County (Sec.5, T20N, R22E). The flow exceeds 200 cfs MAF at Okanogan-Chelan County line.
(4)	Entiat River*	Brief* 7 1/2 Tyee MTN 7 1/2 Baldy MTN 7 1/2 Ardenvoir 7 1/2 Entiat 7 1/2	From the Wenatchee National Forest boundary (Sec.29, T28N, R19E) downstream (excluding all federal properties) to mouth at the Columbia River (Sec.17, T25N, R21E). The 200 cfs MAF point begins at Wenatchee National Forest boundary.
(5)	Icicle Creek*	Chiwaukum Mts. 15 Leavenworth 15	From the Wenatchee National Forest boundary (west section line) (Sec.5, T24N, R16E) downstream to mouth at Wenatchee River (Sec.13, T24N, R17E) (excluding federal land). The flow exceeds 200 cfs MAF at Wenatchee National Forest boundary.
(6)	Little Wenatchee River*	Wenatchee Lake* 15	From confluence with Soda Creek (Sec.10, T27N, R15E) downstream to mouth on Wenatchee Lake (Sec.23, T27N, R16E). Exclude federal lands. The 200 cfs point begins at confluence with Soda Creek.
(7)	Mad River	Tyee Mtn. 7 1/2 Ardenvoir 7 1/2 Chumstick Mtn. 7 1/2	From the Wenatchee National Forest boundary (Sec.13, T26N, R19E) downstream to mouth at Entiat River (Sec.19, T26N, R20E). Exclude federal lands.
(8)	Mission Creek	Monitor 7 1/2 Cashmere 7 1/2	From the confluence of Mission Creek and Bear Gulch (Sec.31, T23N, R19E) downstream to mouth at Wenatchee River (Sec.4, T23N, R19E).
(9)	Napeequa River	Wenatchee Lake 15	From confluence of Twin Lakes Cr. and Napeequa River (Sec.17, T28N, R16E) downstream to mouth at White River (Sec.18, same township).
(10)	Nason Creek*	Labyrinth Mtn.* 7 1/2 Wenatchee Lake 15 Plain 7 1/2	From west section line (Sec.5, T26N, R15E) downstream to mouth at Wenatchee River (Sec.28, T27N, R17E). Exclude federal lands. The 200 cfs MAF point is at confluence with Roaring Creek (Sec.11, T26N, R16E).
(11)	Peshastin Creek	Liberty 15 Leavenworth 15	From the Wenatchee National Forest boundary (Sec.25, T23N, R17E) downstream (excluding all federal lands) to mouth at Wenatchee River (Sec.22, T24N, R18E).
(12)	Stehekin River*	McGregor Mtn. 7 1/2 Stehekin 7 1/2	From the North Cascades National Park boundary (Sec.11, T33N, R16E) downstream, excluding federal lands, to mouth on Lake Chelan (Sec.36, T33N, R17E). The 200 cfs MAF point begins at National Park boundary.
(13)	Wenatchee River*	Plain* 7 1/2 Leavenworth 15 Monitor 7 1/2 Wenatchee 7 1/2 Cashmere 7 1/2	From the outlet on Wenatchee Lake (Sec.28, T27N, R17E) downstream (excluding all federal lands) to the mouth at the Columbia River (Sec.27, T23N, R20E). The 200 cfs MAF point begins at gauging station (Sec.28, T27N, R17E).
(14)	White River*	Wenatchee Lake* 15	From Wenatchee National Forest boundary (Sec.18, T28N, R16E) downstream to mouth at Wenatchee Lake (Sec.14, T27N, R16E). Exclude federal land. The 200 cfs MAF point is at gauging station (Sec.5, T27N, R16E).
(15)	Railroad Creek	Holden 15 Lucerne 15	From Wenatchee National Forest boundary (Sec.7, T31N, R17E) downstream, excluding federal lands, to mouth at Lake Chelan (Sec.10, T31N, R18E).
(16)	Twenty-five Mile Creek	Stormy Mtn. 7 1/2	From south section line (Sec.36, T29N, R20E) downstream to mouth at Lake Chelan (Sec.19, T29N, R21E).
(17)	Phelps Creek	Holden 15	From NE1/4 of SW1/4 (Sec.10, T30N, R16E) downstream to mouth Chiwawa River (Sec.27, same township). Exclude federal lands.

Stream Name		Quadrangle Name and Size	Legal Description
(18)	Whitepine Creek	Wenatchee Lake 15	From south section line (Sec.11, T26N, R15E) downstream to mouth at Nason Creek (Sec.1, same township). Exclude federal lands.
(19)	Chiwaukum Creek	Chiwaukum Mts. 15 Leavenworth 15	From confluence with South Fork Chiwaukum (Sec.34, T26N, R16E) downstream to mouth at Wenatchee River (Sec.9, T25N, R17E). Exclude federal lands.
(20)	Chiwaukum Creek (S. Fork)	Chiwaukum Mts. 15	From confluence with Painter Creek (Sec.3, T25N, R16E) downstream to mouth at Chiwaukum Creek (Sec.34, T26N, R16E). Exclude federal lands.
(21)	Eightmile Creek	Chiwaukum Mts. 15	From the west section line (Sec.25, T24N, R16E) downstream to Icicle Cr. (Sec.19, T24N, R17E). Exclude federal lands.
(22)	Ingalls Creek	Mount Stuart 15 Liberty 15	From west section line (Sec.31, T23N, R17E) downstream to mouth at Peshastin Creek (Sec.25, T23N, R17E). Exclude federal lands.

[Statutory Authority: RCW 90.58.120 and 90.58.200. 80-08-052 (Order DE 80-20), § 173-18-080, filed 6/30/80; Order DE 76-14, § 173-18-080, filed 5/3/76; Order 73-14, § 173-18-080, filed 8/27/73; Order DE 72-13, § 173-18-080, filed 6/30/72.]

WAC 173-18-090 Clallam County. Streams

Stream Name		Quadrangle Name and Size	Legal Description
(1)	Big River	Lake Pleasant 15	From the confluence of Big River and unnamed creek (Sec.16, T31N, R14W) downstream to mouth on Lake Ozette (Sec.10, T30N, R15W).
(2)	Bear Creek	Forks 15	From the confluence of Bear Creek and unnamed creek (Sec.24, T28N, R13W) downstream to mouth at Bogachiel River (Sec.35, T28N, R13W).
(3)	Bear Creek	Pysht 15	From the Olympic National Forest boundary (Sec.25, T30N, R12W) downstream to mouth at Soleduck River (Sec.27, same township).
(4)	Beaver Creek	Lake Pleasant 15	From the Olympic National Forest boundary (Sec.20, T30N, R12W) downstream to mouth at Soleduck River (Sec.30, T30N, R12W).
(5)	Bockman Creek	Lake Pleasant 15	From the Olympic National Forest boundary (Sec.1, T29N, R13W) downstream to mouth at Soleduck River (same section).
(6)	Bogachiel River (Cont.)*	Reade Hill 7 1/2 Forks 7 1/2 Quillayute Prairie 7 1/2	From the Jefferson County line (Sec.35, T28N, R13W) downstream to mouth at Quillayute River (Sec.20, T28N, R14W). The flow exceeds 1,000 cfs MAF at Jefferson County line.
(7)	Calawah River*	Forks* 15	From confluence of North and South Forks of Calawah River (Sec.35, T29N, R13W) downstream to mouth at Bogachiel River (Sec.13, T28N, R14W). The 1,000 cfs MAF point begins at confluence of North and South Forks.
(8)	Calawah River (S. Fork)	Forks 15	From the Olympic National Forest boundary (Sec.1, T28N, R13W) downstream to mouth at Calawah River (Sec.35, T29N, R13W).
(9)	Calawah River (N. Fork)	Pysht 15 Lake Pleasant 15 Forks 15	From the North section line (Sec.15, T29N, R11W) to mouth at Calawah River (Sec.35, T29N, R13W). Exclude federal lands.
(10)	Clallam River	Lake Pleasant 15 Pysht 15 Clallam Bay 15	From the confluence of Clallam River and unnamed creek (Sec.12, T31N, R13W) downstream to mouth at Clallam Bay (Sec.20, T32N, R12W).
(11)	Colby Creek	La Push 15	From the intersection of private road and Colby Creek (Sec.8, T28N, R14W) downstream to mouth at Dickey River (Sec.6, T28N, R14W).
(12)	Coal Creek	La Push 15	From the confluence of Coal Creek and unnamed creek (Sec.1, T28N, R15W) downstream to mouth at Dickey River (Sec.12, same township).
(13)	Crooked Creek	Ozette Lake 15	From the confluence of the North Fork and the South Fork (Sec.19, T30N, R14W) downstream to mouth at Ozette Lake (Sec.15, T30N, R15W).
(14)	Dickey River	La Push 15	From the confluence of East and West Forks of Dickey River (Sec.30, T29N, R14W) downstream to Olympic National Park boundary (Sec.22, T28N, R15W).

Stream Name		Quadrangle Name and Size	Legal Description
(15)	Dickey River (W. Fork)	La Push 15 Ozette Lake 15	From the outlet of Lake Dickey (Sec.16, T30N, R14W) downstream to mouth at Dickey River (Sec.30, T29N, R14W).
(16)	Dickey River (E. Fork)	Lake Pleasant 15 Ozette Lake 15	From the confluence of the East Fork Dickey River and unnamed creek (Sec.19, T30N, R13W) downstream to mouth at Dickey River (Sec.30, T29N, R14W).
(17)	Dickey River (M. Fork)	Lake Pleasant 15	From the confluence of the Middle Fork Dickey River and unnamed creek (Sec.14, T30N, R14W) downstream to mouth at West Fork Dickey River (Sec.21, same township).
(18)	Deep Creek	Pysht 15	From the Olympic National Forest boundary (Sec.36, T31N, R11W) downstream to mouth at Strait of Juan de Fuca (Sec.20, T31N, R10W).
(19)	Dungeness River	Tyler Peak 15 Carlsborg 7 1/2 Dungeness 7 1/2	From the Olympic National Forest boundary (Sec.24, T29N, R4W) downstream to mouth at Dungeness Bay (Sec.25, T31N, R4W).
(20)	East Twin River	Lake Crescent 15	From the confluence of East Twin River and unnamed creek at Olympic National Forest boundary (Sec.36, T31N, R10W) downstream to mouth at Strait of Juan de Fuca (Sec.23, same township).
(21)	Elk Creek	Forks 15	From a point approximately 1000' west of the Olympic National Forest boundary (Sec.12, T28N, R13W) downstream to mouth at Calawah River (Sec.3, same township).
(22)	Elwha River*	Joyce* 15	From the center of (Sec.28, T30N,R7W) downstream to mouth at Freshwater Bay (Sec.27, T31N, R7W). The 1,000 cfs MAF point begins at center of (Sec.28, T30N, R7W).
(23)	Herman Creek	Lake Pleasant 15	From the confluence of North Branch Herman Creek and Herman Creek (Sec.28, T31N, R13W) downstream to mouth at Hoko River (Sec.30, same township).
(24)	Hoko River	Lake Pleasant 15 Clallam Bay 15	From the confluence of Hoko River and unnamed creek (Sec.16, T30N, R13W) downstream to mouth at Strait of Juan de Fuca (Sec.10, T32N, R13W).
(25)	Indian Creek	Joyce 15	From the confluence of Indian Creek and unnamed creek (Sec.23, T30N, R8W) downstream to mouth at Lake Aldwell (Sec.28, T30N, R7W).
(26)	Little Hoko River	Lake Pleasant 15 Clallam Bay 15	From the confluence of Little Hoko River and Lamb Creek (Sec.3, T31N, R13W) downstream to mouth at Hoko River (Sec.22, T32N, R13W).
(27)	Little River (S. Br.)	Joyce 15	From the Olympic National Forest boundary (Sec.25, T30N, R7W) downstream to mouth at Elwha River (Sec. 28, same township). Excluding federal lands.
(28)	Lyre River	Lake Crescent 15	From the Olympic National Forest boundary (Sec.10, T30N, R9W) downstream to mouth at Strait of Juan de Fuca (Sec.22, T31N, R9W).
(29)	Maxfield Creek	Forks 15	From the confluence of Maxfield Creek and South Fork Maxfield Creek (Sec.27, T28N, R14W) downstream to mouth at Bogachiel River (Sec.28, same township).
(30)	McDonald Creek	Carlsborg 7 1/2 Dungeness 7 1/2	From the confluence of McDonald Creek and unnamed creek (Sec.6, T29N, R4W) downstream to mouth at Strait of Juan de Fuca (Sec.5,T30N,R4W).
(31)	Murphy Creek	La Push 15	From the confluence of Murphy Creek and unnamed creek (Sec.33, T28N, R14W) downstream to mouth at Bogachiel River (Sec.29, same township).
(32)	Pilchuck Creek	Ozette Lake 15	From a point (SW1/4 of NE1/4 Sec.33, T32N, R15W) downstream to mouth at Sooes River (Sec.28, same township).
(33)	Morse Park	Morse Creek 7 1/2	From Olympic National Park boundary (Sec.8, T29N, R5W) downstream to mouth at Port Angeles Harbor (Sec.5, T30N, R5W).
(34)	Ponds Creek	Lake Pleasant 15	From the confluence of Ponds Creek and unnamed creek on the south section line (Sec.34, T31N, R14W) downstream to mouth at Dickey Lake (Sec.9, T30N, R14W).

Stream Name		Quadrangle Name and Size	Legal Description
(35)	Pysht River	Pysht 15	From the Olympic National Forest boundary (Sec.34, T31N, R12W) downstream to mouth at Strait of Juan de Fuca near Pysht (Sec.9, T31N, R11W).
(36)	Pysht River (S. Fk.)	Pysht 15	From the confluence of the South Fork Pysht River and Middle Creek (Sec.28, T31N, R11W) downstream to mouth at Pysht River (Sec.13, T31N, R12W).
(37)	Quillayute River*	La Push* 15	From confluence of Soleduck and Bogachiel rivers (Sec.20, T28N, R14W) downstream to Olympic National Park boundary (Sec.24, T28N, R15W). The 1,000 cfs MAF point begins at confluence of Soleduck River and Bogachiel River.
(38)	Salt Creek	Joyce 15	From the confluence of Salt Creek and unnamed creek (SE1/4, SE1/4 of Sec.34, T31N, R8W) downstream to mouth at Crescent Bay on Strait of Juan de Fuca (Sec.21, same township).
(39)	Sekiu River (S. Fk.)	Lake Pleasant 15	From the confluence of the South Fork Sekiu River and unnamed creek (Sec.26, T32N, R14W) downstream to mouth at Sekiu River (Sec.15, same township).
(40)	Sekiu River (N. Fk.)	Cape Flattery 15	From the confluence of North Fork Sekiu River and unnamed creek (Sec.7, T32N, R14W) downstream to mouth at Sekiu River (Sec. 15, same township).
(41)	Sekiu River	Clallam Bay 15	From confluence of North and South Forks of Sekiu River (Sec.15, T32N, R14W) downstream to mouth on Strait of Juan de Fuca (Sec.8, T32N, R13W).
(42)	Shuwah Creek	Lake Pleasant 15	From the confluence of Shuwah Creek and unnamed creek (NW1/4 SW1/4 of Sec.15, T29N, R13W) downstream to mouth at Soleduck River (Sec.22, same township).
(43)	Skunk Creek	Lake Pleasant 15	From the confluence of Skunk Creek and unnamed creek (Sec.29, T30N, R13W) downstream to mouth at the Dickey River (Sec.31, T39N, R13W).
(44)	Snag Creek	Ozette Lake 15	From the confluence of Snag Creek and unnamed creek (Sec.6, T31N, R14W) downstream to mouth at Sooes River (Sec.30, T32N, R14W).
(45)	Soleduck River*	Pysht 15 Lake Pleasant* 15 Forks 15 La Push 15	From the Olympic National Forest boundary (Sec.35, T30N, R10W) downstream to mouth at Quillayute River (Sec.20, T28N, R14W). The 1,000 cfs MAF point begins at mouth of Bockman Creek (Sec.1, T29N, R13W). Excludes federal lands.
(46)	Sooes River	Ozette Lake 15 Cape Flattery 15	From the confluence of Snag Creek and Sooes River (Sec.30, T32N, R14W) downstream to Indian Reservation boundary (Sec.16, T32N, R15W).
(47)	Thunder Creek	Lake Pleasant 15	From the confluence of Thunder Creek and unnamed creek (Sec.11, T29N,R14W) downstream to mouth at East Fork Dickey River (Sec.23, same township).
(48)	Umbrella Creek	Ozette Lake 15	From the confluence of Umbrella Creek and unnamed creek (Sec.23, T31N,R15W) downstream to mouth at Umbrella Point on Lake Ozette (Sec.4, T30N,R15W).
(49)	West Twin River	Lake Crescent 15	From the Olympic National Forest boundary (Sec.34, T31N, R10W) downstream to mouth at Strait of Juan de Fuca (Sec.23, T31N, R10W).

[Statutory Authority: RCW 90.58.200. 90-06-068 (Order 89-60), § 173-18-090, filed 3/6/90, effective 4/6/90; Order DE 76-14, § 173-18-090, filed 5/3/76; Order 73-14, § 173-18-090, filed 8/27/73; Order DE 72-13, § 173-18-090, filed 6/30/72.]

WAC 173-18-100 Clark County. Streams

Stream Name		Quadrangle Name and Size	Legal Description
(1)	Big Tree Creek	Yacolt 15 Yacolt 7 1/2	From the confluence of Big Tree Creek and Big Creek (Sec.6, T4N, R4E) downstream to mouth at East Fork Lewis River (Sec.13, T4N, R3E).
(2)	Boulder Creek	Camas 15	From the confluence of Boulder Creek and unnamed creek (Sec.9, T2N, R4E) downstream to confluence of Boulder Creek and East Fork Little Washougal River (Sec.8, same township).
(3)	Burnt Bridge Creek	Orchards 7 1/2 Vancouver 7 1/2	From I-205 overcrossing (Sec.16, T2N, R2E) and Burnt Bridge Creek downstream to Vancouver Lake (Sec.9, T2N, R1E).

Stream Name	Quadrangle Name and Size	Legal Description
(4) Canyon Creek	Lookout Mt. 15 Yacolt 15	From the National Forest boundary line (Sec.12, T5N, R4E) downstream to mouth at Lewis River (Sec.31, T6N, R4E) excluding the portion which flows thru Gifford Pinchot National Forest.
(5) Cedar Creek	Yacolt 15	From the confluence of Cedar Creek and Cold Creek (Sec.8, T3N, R4E) downstream to mouth at Rock Creek (Sec.31, T4N, R4E).
(6) Cedar Creek	Amboy 7 1/2 Yacolt 7 1/2 Ariel 7 1/2	From the confluence of Cedar Creek and unnamed creek (Sec.24, T5N, R3E) downstream to mouth at Lewis River (Sec.12, T5N, R1E).
(7) Chelatchie Creek	Amboy 7 1/2	From an approximate point along the south section line (SE1/4 of NW1/4 of Sec.14, T5N, R3E) downstream to mouth at Cedar Creek (Sec.16, same township).
(8) Columbia River (Cont.)*	Bridal Veil 15 Washougal 7 1/2 Camas 7 1/2 Mount Tabor 7 1/2 Portland 7 1/2 Vancouver 7 1/2 Sauvie Island 7 1/2 St. Helens 7 1/2	From the Skamania County line on Columbia River (Sec. 19, TIN, R5E) downstream along the Washington-Oregon boundary to Cowlitz County line at Lewis River (Sec.10, T4N, R1W). The flow exceeds 1,000 cfs MAF at Skamania-Clark County line.
(9) Lewis River*	Mt. St. Helens 15 Cougar 15 Yacolt 15 Amboy 7 1/2 Ariel 7 1/2 Woodland 7 1/2 Ridgefield 7 1/2 St. Helens 7 1/2	From the Skamania County line (Sec.36, T7N, R4E) left bank only downstream to mouth at Columbia River (Sec.2, T4N, R1W). The flow exceeds 1,000 cfs MAF at Skamania-Clark County line.
(10) Copper Creek	Lookout Mtn. 15 Yacolt 15	From the Gifford Pinchot National Forest boundary (Sec.25, T4N, R4E) downtream to mouth at Lewis River East Fork (Sec.24, same township).
(11) Fifth Plain Creek	Lackamas 7 1/2	From the confluence of Fifth Plain Creek and Shanghai Creek (Sec.6, T2N, R3E) downstream to mouth at Lackamas Creek (Sec.7, same township).
(12) Fly Creek	Yacolt 15	From the confluence of Fly Creek and unnamed creek (Sec.1, T4N, R4E) downstream to mouth at Canyon Creek (Sec.4, T5N, R4E).
(13) Gee Creek	Ridgefield 7 1/2	From the confluence of Gee Creek and unnamed creek (Sec.19, T4N, R1E) downstream to mouth at Lewis River (Sec.11, T4N, R1W).
(14) Glenwood Creek	Orchards 7 1/2	From the intersection of Glenwood Creek and NE 119th St. (Sec.29, T3N, R2E) downstream to Salmon Creek (Sec.20, same township).
(15) Hagan Creek	Camas 15 Bridal Veil 15	From the confluence of Hagan Creek and unnamed creek (Sec.36, T3N, R4E) downstream to Skamania County line (Sec.1, T2N, R4E).
(16) King Creek	Yacolt 15	From the confluence of King Creek and unnamed creek (Sec.26, T4N, R4E) downstream to mouth at Lewis River East Fork (Sec.21, same township).
(17) Lackamas Creek	Camas 15 Lackamas 7 1/2	From the Military Reservation boundary (Sec.9, T2N, R3E) downstream through Lackamas Lake to Washougal River near Camas (Sec.12, T1N, R3E).
(18) Lewis River (E. Fk.)*	Lookout Mt. 15 Yacolt 15 Battle Ground 7 1/2 Ridgefield* 7 1/2 Yacolt 7 1/2	From the Gifford Pinchot National Forest boundary (Sec.24, T4N, R4E) downstream to mouth at Lewis River (Sec.32, T5N, R1E) The 1,000 cfs MAF begins at the mouth of Mason Creek. (Sec.14, T4N, R1E.)
(19) Little Washougal River	Camas 15	From the confluence of Boulder Creek and East Fork Little Washougal River (Sec.8, T2N, R4E) downstream to mouth on Washougal River (Sec.32, same township).
(20) Little Washougal River (E. Fk.)	Camas 15	From the confluence of East Fork Little Washougal River and Jones Creek (Sec.9, T2N, R4E) downstream to mouth at confluence with Boulder Creek (Sec.8, T2N, R4E).
(21) Lockwood Creek	Ridgefield 7 1/2	From the confluence of Lockwood Creek and unnamed creek (Sec.1, T4N, R1E) downstream to mouth at East Fork Lewis River (Sec.11, same township).
(22) Mason Creek	Battle Ground 7 1/2	From the confluence of Mason Creek and unnamed creek (Sec.8, T4N, R2E) downstream to mouth at East Fork Lewis River (Sec.14, T4N, R1E).
(23) Matney Creek	Camas 15 Lackamas 7 1/2	From the confluence of Matney Creek and unnamed creek (Sec.15, T2N, R3E) downstream to mouth at Lackamas Creek (Sec.9, same township).
(24) Mill Creek	Battle Ground 7 1/2 Orchards 7 1/2 Vancouver 7 1/2	From the confluence of Mill Creek and unnamed creek (SW1/4 Sec.7, T3N, R2E) downstream to mouth at Salmon Creek (Sec.24, T3N, R1E).

Stream Name		Quadrangle Name and Size	Legal Description
(25)	Morgan Creek	Yacolt 7 1/2 Battle Ground 7 1/2	From an approximate point (SE1/4 of Sec.12, T3N, R2E) downstream to mouth at Salmon Creek (Sec.12, same township).
(26)	North Siouxon Creek	Lookout Mt. 15 Yacolt 15	From the Skamania County line (Sec.25, T6N, R4E) downstream to mouth at Siouxon Creek (Sec.25, same township).
(27)	Rock Creek	Yacolt 15	From an approximate point on the north section line (SE1/4 of NW1/4 of Sec.33, T4N, R3E) downstream to mouth on Salmon Creek (Sec.4, T3N, R3E).
(28)	Rock Creek	Battle Ground 7 1/2	From the confluence of Rock Creek and unnamed creek (Sec.2, T4N, R2E) downstream to mouth on East Fork Lewis River (Sec.14, same township).
(29)	Rock Creek	Yacolt 7 1/2	From the confluence of Rock Creek and unnamed creek (Sec.9, T3N, R4E) downstream to mouth at East Fork Lewis River (Sec.19, T4N, R4E).
(30)	Salmon Creek	Yacolt 7 1/2 LaCenter 15 Orchards 7 1/2 Vancouver 7 1/2	From the confluence of Salmon Creek and unnamed creek (NW1/4 of Sec.10, T3N, R3E) downstream to mouth at Lake River (Sec.19, T3N, R1E).
(31)	Siouxon Creek (Cont.)	Lookout Mtn. 15 Yacolt 15	From the Skamania County line (Sec.36, T6N, R4E) downstream to mouth in Yale Lake (Sec.26, same township).
(32)	Unnamed Creek (Tributary to Chelatchie Creek)	Amboy 7 1/2	From intersection of Eaton Road and unnamed creek (Sec.15, T5N, R3E) downstream to mouth at Chelatchie Creek (Sec.16 same township).
(33)	Washougal River (Cont.)*	Bridal Veil 15 Washougal* 7 1/2 Camas 7 1/2	From the Skamania County line (Sec.36, T2N, R4E) downstream to mouth at Columbia River near Camas (Sec.11, T1N, R3E). The 1,000 cfs MAF begins at mouth of Little Washougal River (Sec.32, T2N, R4E).
(34)	Yacolt Creek	Yacolt 7 1/2	From an approximate point (near SE corner of the NE1/4 of NW1/4 Sec.11, T4N, R3E) downstream to mouth at Big Tree Creek (Sec.13, T4N, R3E).

[Order DE 76-14, § 173-18-100, filed 5/3/76; Order 73-14, § 173-18-100, filed 8/27/73; Order DE 72-13, § 173-18-100, filed 6/30/72.]

WAC 173-18-110 Columbia County. Streams

Stream Name		Quadrangle Name and Size	Legal Description
(1)	Pataha Creek (Cont.)	Hay 15	From the Garfield County line (Sec.12, T12N, R39E) downstream to mouth at Tucannon River (Sec.24, T12N, R38E).
(2)	Tucannon River*	Pomeroy 30 Hopkins Ridge 7 1/2 Zumwalt 7 1/2 Turner 7 1/2 Tucannon 7 1/2 Hay* 15 Starbuck 15	From the Umatilla National Forest boundary line (Sec.35, T10N, R41E) downstream to mouth at Snake River (Sec.3, T12N, R37E). This stream has over 300 square miles of drainage area ending at Pataha Creek (Sec.24, T12N, R38E).
(3)	Touchet River (S. Fk.)	Pomeroy 30 Robinette Mtn. 7 1/2 Dayton 7 1/2	From a point of (SE1/4 of NE1/4 of Sec.5, T8N, R39E) downstream to mouth at Touchet River near Dayton (Sec.32, T10N, R39E).
(4)	Touchet River (N. Fk.)	Pomeroy 30 Eckler Mtn. 7 1/2 Cahill Mtn. 7 1/2 Dayton 7 1/2	From the confluence of the North Fork Touchet River and unnamed creek (Sec.28, T8N, R40E) downstream to Touchet River near Dayton (Sec.32, T10N, R39E) (Note: called North Fork on Quad.) Excluding all federal lands.
(5)	Touchet River	Pomeroy 30 Walla Walla 30 Dayton 7 1/2 Huntsville 7 1/2	From the confluence of North and South Forks of Touchet River (Sec.32, T10N, R39E) downstream to Walla Walla County line (Sec.7, T9N, R38E).
(6)	Robinson Creek	Dayton 7 1/2	From north line (Sec.23, T9N, R39E) downstream to mouth at North Fork Touchet River (Sec.11, same township).

[Order DE 76-14, § 173-18-110, filed 5/3/76; Order 73-14, § 173-18-110, filed 8/27/73; Order DE 72-13, § 173-18-110, filed 6/30/72.]

WAC 173-18-120 Cowlitz County. Streams

Stream Name		Quadrangle Name and Size	Legal Description
(1)	Abernathy Creek	Ryderwood 15 Clatskanie 15	From the confluence of Abernathy Creek and Ordway Creek (Sec.5, T9N, R4W) downstream to mouth at Columbia River (Sec.10, T8N, R4W).
(2)	Alder Creek	Toutle 15	From the confluence of Alder Creek and unnamed creek (Sec.26, T10N, R2E) downstream to mouth at North Fork Toutle River (Sec.15, same township).

Stream Name		Quadrangle Name and Size	Legal Description
(3)	Arkansas Creek	Ryderwood 15	From the confluence of Arkansas Creek and unnamed creek (NE1/4 Sec.26, T10N, R3W) downstream to mouth at Cowlitz River near Castle Rock (Sec.15, T9N, R2W).
(4)	Baird Creek	Pigeon Springs 15	From an approximate point (SW1/4 of SW1/4 of SW1/4 of Sec.9, T8N, R2E) downstream to mouth at Coweeman River (Sec.19, same township).
(5)	Bear Creek	Cougar 15	From the confluence of Bear Creek and unnamed creek (Sec.9, T8N, R3E) downstream to South Fork Toutle River (Sec.29, T9N, R3E).
(6)	Bear Creek	Elk Rock 15 Toutle 15	From the intersection of Bear Creek and light duty road (Sec.33, T10N, R3E) downstream to mouth at Hoffstadt Creek (Sec.23, T10N, R2E).
(7)	Cameron Creek	Clatskanie 15	From the confluence of Cameron Creek and unnamed creek (Sec.28, T9N, R4W) downstream to mouth at Abernathy Creek (Sec.10, T8N, R4W).
(8)	Campbell Creek	Ryderwood 15	From an approximate point near the north section line (SW1/4 of NE1/4 of Sec.10, T10N, R3W) downstream to mouth at Stillwater Creek (Sec.3, same township).
(9)	Castle Creek	Elk Rock 15	From the confluence of Castle Creek and the South Fork Castle Creek (Sec.14, T9N, R4E) downstream to mouth at North Fork Toutle River (Sec.10, same township).
(10)	Chehalis River (S. Fk.)	Ryderwood 15	From the confluence of South Fork Chehalis River and unnamed creek (Sec.11, T10N, R4W) downstream to the Lewis County line (Sec.2, same township).
(11)	Coal Creek	Clatskanie 15	From the confluence of Coal Creek and unnamed creek (Sec.28, T9N, R3W) downstream to mouth at Coal Creek Slough (Sec.14, T8N, R3W).
(12)	Coldwater Creek (Cont.)	Spirit Lake 15	From the Gifford Pinchot National Forest boundary (also Skamania County line) (Sec.36, T10N, R4E) downstream to mouth at North Fork Toutle River (Sec.2, T9N, R4E).
(13)	Columbia River (Cont.)*	St. Helens 71/2 Deer Island 7 1/2 Kalama 7 1/2 Rainier 7 1/2 Clatskanie 15	From the Lewis River at the Clark County line (Sec.10, T4N, R1W) downstream along the Washington-Oregon line to Wahkiakum County line (Sec.20, T8N, R4W). The flow exceeds 1,000 cfs MAF at Cowlitz-Clark County line.
(14)	Cougar Creek	Cougar 15	From the Gifford Pinchot National Forest boundary (Sec.23, T7N, R4E) downstream to mouth at Yale Lake (Sec.27, T7N, R4E).
(15)	Coweeman River	Cougar 15 Pigeon Springs 15 Mt. Brynion 7 1/2 Kelso 7 1/2 Rainier 7 1/2	From the Gifford Pinchot National Forest boundary (Sec.19, T8N, R3E) downstream to mouth at Cowlitz River (Sec.11, T7N, R2W).
(16)	Cowlitz River (Cont.)*	Castle Rock 15 Kelso 7 1/2 Rainier 7 1/2	From Cowlitz-Lewis County line (Sec.4, T10N, R2W) downstream to mouth on Columbia River (Sec.10,T7N,R2W). The flow exceeds 1,000 cfs MAF at Cowlitz-Lewis County line (Sec.3, T10N, R2W).
(17)	Deer Creek	Elk Rock 15	From the confluence of Deer Creek and unnamed creek (Sec.31, T10N, R3E) downstream to mouth at North Fork Toutle River (Sec.36, T10N, R2E).
(18)	Delameter Creek	Castle Rock 15 Kelso 7 1/2	From the confluence of Delameter Creek and unnamed creek (Sec.24, T9N, R3W) downstream to mouth at Arkansas Creek (Sec.16, T9N, R2W).

Stream Name		Quadrangle Name and Size	Legal Description
(19)	Devils Creek	Toutle 15	From the Lewis County line (Sec.2, T10N, R2E) downstream to mouth at the Green River (same section).
(20)	Elk Creek	Cougar 15	From the confluence of Elk Creek and unnamed creek (Sec.12, T7N, R2E) downstream to mouth at Kalama River (Sec.24, same township).
(21)	Elochoman River (E. Fk.)	Ryderwood 15	From the confluence of East Fork Elochoman River and unnamed creek (Sec.8, T10N, R4W) downstream to Wahkiakum County line (same section).
(22)	Germany Creek	Ryderwood 15 Clatskanie 15	From the confluence of Germany Creek and unnamed creek (Sec.25, T10N, R4W) downstream to mouth at Columbia River (Sec.12, T8N, R4W).
(23)	Gobar Creek	Pigeon Springs 15	From the confluence of Gobar Creek and unnamed creek (Sec.8, T7N, R2E) downstream to mouth at Kalama River (Sec.36, T7N, R1E).
(24)	Goble Creek	Pigeon Springs 15 Kalama 7 1/2 Mt. Brynion 7 1/2	From the confluence of Goble Creek and unnamed creek (Sec.13, T7N, R1W) downstream to mouth of Coweeman River (Sec.34, T8N, R1W).
(25)	Goble Creek (N. Fk.)	Pigeon Springs 15 Kalama 7 1/2	From the confluence of the North Fork Goble Creek and unnamed creek (Sec.31, T8N, R1E) downstream to mouth at Goble Creek (Sec.2, T7N, R1W).
(26)	Green River (Cont.)	Spirit Lake 15 Elk Rock 15 Toutle 15	From the Skamania-Cowlitz County line (Sec.1, T10N, R4E) downstream to mouth at North Fork Toutle River (Sec.8, T10N, R2E) excluding those reaches within Lewis County.
(27)	Hemlock Creek	Toutle 15	From the confluence of Hemlock Creek and unnamed creek (Sec.18, T9N, R1E) downstream to mouth at Silver Lake (Sec.1, T9N, R1W).
(28)	Hoffstadt	Elk Rock 15 Toutle 15	From the confluence of Hoffstadt Creek and unnamed creek (Sec.24, T10N, R3E) downstream to mouth at North Fork Toutle River (Sec.23, T10N, R2E).
(29)	Jackson Creek	Elk Rock 15	From the approximate point near the north section line (SW1/4 of SW1/4 of Sec.8, T9N, R4E) downstream to mouth at North Fork Toutle River (Sec.12, T9N, R3E).
(30)	Johnson Creek	Toutle 15	From the confluence of Johnson Creek and unnamed creek (Sec.36, T10N, R1E) downstream to South Fork Toutle River (Sec.34, same township).
(31)	Kalama River*	Cougar 15 Pigeon Springs*15 Kalama 7 1/2	From the Gifford Pinchot National Forest boundary (Sec.5, T7N, R4E) downstream to mouth at Columbia River (Sec.1, T6N, R2W) excluding all federal lands. The 1,000 cfs MAF point begins at mouth of Little Kalama River (Sec.17, T6N, R1E).
(32)	Kalama River (N. Fk.)	Cougar 15	From confluence of Kalama River N. Fk. and unnamed creek (Sec.34, T8N, R3E) downstream to mouth at Kalama River (Sec.14, T7N, R3E).
(33)	Langdon Creek	Cougar 15	From confluence of Langdon Creek and unnamed creek (Sec.9, T7N, R3E) downstream to mouth at Kalama River (Sec.22, T7N, R3E).
(34)	Lewis River (Cont.)*	Mt. St. Helens* 15 Cougar 15 Yacolt 15 St. Helens 15 Amboy 7 1/2 Ariel 7 1/2 Woodland 7 1/2	From the Skamania County line (Sec.25, T7N, R4E) downstream through Yale Lake and Lake Merwin to mouth at the Columbia River (Sec.2, T4N, R1W) on right shore of Lewis River only. The flow exceeds 1,000 cfs MAF at Cowlitz-Skamania County line.

Stream Name	Quadrangle Name and Size	Legal Description
(35) Little Kalama River	LaCenter 15 Pigeon Springs 15	From the confluence of the Little Kalama River and unnamed creek (Sec.16, T6N, R1E) downstream to mouth at Kalama River (Sec.17, same township).
(36) Little Mill Creek	Clatskanie 15	From the confluence of Little Mill Creek and unnamed creek (Sec.8,T8N, R4W) downstream to mouth at Mill Creek (Sec.9, same township).
(37) Mill Creek (Cont.)	Clatskanie 15	From the Wahkiakum County line (Sec.32, T9N, R4W) downstream to mouth on the Columbia River (Sec.9, T8N, R4W).
(38) Monahan Creek	Ryderwood 15 Castle Rock 15	From the confluence of Monahan Creek and unnamed creek (Sec.2, T9N, R3W) downstream to mouth at Delameter Creek (Sec.18, T9N, R2W).
(39) Mulholland Creek	Pigeon Springs 15	From the confluence of Mulholland Creek and unnamed creek (Sec.2, T8N, R1E) downstream to mouth at Coweeman River (Sec.17, same township).
(40) Olequa Creek (Cont.)	Castle Rock 15	From Lewis County line (Sec.32, T11N, R2W) downstream to mouth at Cowlitz River (Sec.9, T10N, R2W).
(41) Ostrander Creek	Mt. Brynion 7 1/2 Kelso 7 1/2	From the confluence of Ostrander Creek and unnamed creek (Sec.27, T9N, R1W) downstream to mouth at Cowlitz River (Sec.11, T8N, R2W).
(42) Ostrander Creek (S. Fk.)	Mt. Brynion 7 1/2 Kelso 7 1/2	From the confluence of South Fork Ostrander Creek and unnamed creek (Sec.18, T8N, R1W) downstream to mouth at Ostrander Creek (Sec.12, T8N, R2W).
(43) Rock Creek	Cougar 15 Amboy 7 1/2	From the confluence of Rock Creek and unnamed creek (Sec.8, T6N, R3E) downstream to mouth at Lake Merwin (Sec.20, same township).
(44) Salmon Creek (Cont.)	Castle Rock 15	From the Lewis County line (Sec.3, T10N, R1W) back to Lewis County line (same section) except those reaches within Lewis County.
(45) Shultz Creek	Elk Rock 15	From the confluence of Shultz Creek and unnamed creek (N1/2 Sec.14, T10N, R4E) downstream to mouth at Green River (Sec.3, same township).
(46) South Coldwater Creek	Spirit Lake 15 Elk Rock 15	From the Gifford Pinchot National Forest boundary (Sec.1, T9N, R4E) downstream to mouth at Coldwater Creek (Sec.2, same township).
(47) Speelyai Creek	Cougar 15 Yacolt 15 Amboy 7 1/2	From the confluence of the Speelyai Creek and the West Fork of Speelyai Creek (Sec.5, T6N, R4E) downstream to mouth at Lake Merwin (Sec.23, T6N, R3E).
(48) Stillwater Creek	Ryderwood 15	From the confluence of Stillwater Creek and unnamed creek (Sec.6, T10N, R3W) downstream to the Lewis County line (Sec.3, same township).
(49) Studebaker Creek	Toutle 15	From the confluence of Studebaker Creek and unnamed creek (Sec.33, T10N, R1E) downstream to mouth at Toutle River (S. Fork) (Sec.29, same township).
(50) Toutle River*	Toutle* 15 Castle Rock 15	From confluence of North and South Forks of Toutle River (Sec.29, T10N, R1E) downstream to mouth on Cowlitz River (Sec.34, T10N, R2W). The 1,000 cfs MAF point begins at mouth of Green River (Sec.8, T10N, R2E) at North Fork Toutle River.
(51) Toutle River (N. Fk.)	Spirit Lake 15 Elk Rock 15 Toutle 15	From the Gifford Pinchot National Forest boundary at the Skamania County line (Sec.13, T9N, R4E) downstream to mouth at Toutle River (Sec.29, T10N, R1E).

Stream Name		Quadrangle Name and Size	Legal Description
(52)	Toutle River (S. Fk.)	Cougar 15 Pigeon Springs 15 Toutle 15	From the Gifford Pinchot National Forest boundary (Sec.2, T8N, R4E) downstream to mouth at the Toutle River (Sec.29, T10N, R1E).
(53)	Unnamed Tributary to Kalama River	Cougar 15	From an approximate point (SW1/4 of SE1/4 of NW1/4 of Sec.13, T7N, R3E) downstream to mouth at Kalama River (Sec.12, same township).
(54)	Unnamed Tributary to Speelyai Creek	Cougar 15	From an approximate point near the east section line (Sec.12, T6N, R3E) downstream to mouth at Speelyai Creek (Sec.7, T6N, R4E).
(55)	Unnamed Tributary to Toutle River (S. Fk.)	Cougar 15	From confluence of unnamed tributary and unnamed creek (Sec.12, T8N, R3E) downstream to mouth at South Fork Toutle River (Sec.36, T9N, R3E).
(56)	Wild Horse Creek	Pigeon Springs 15	From the confluence of Wild Horse Creek and unnamed creek (Sec.23, T7N, R1E) downstream to mouth at Kalama River (Sec.36, T7N, R1E).
(57)	Wolf Creek	Cougar 15	From the confluence of Wolf Creek and unnamed creek (Sec.28, T7N, R3E) downstream to mouth at Kalama River (Sec.21, same township).
(58)	Wyant Creek	Toutle 15	From the confluence of Wyant Creek and unnamed creek (Sec.13, T10N, R1E) downstream to mouth at North Fork Toutle River (Sec.20, same township).
(59)	Unnamed Tributary to Toutle River (S. Fk.)	Cougar 15	From north end of Goat Marsh (SW1/4, NW1/4 Sec.23, T8N, R4E) downstream to mouth at Toutle River S.Fk. excluding federal lands.
(60)	Fossil Creek	Cougar 15	From Gifford Pinchot National Forest boundary (Sec.31, T8N, R4E) downstream to mouth at Kalama River (Sec.6, T7N, R4E).

[Statutory Authority: RCW 90.58.120 and 90.58.200. 80-08-052 (Order DE 80-20), § 173-18-120, filed 6/30/80; Order DE 76-14, § 173-18-120, filed 5/3/76; Order 73-14, § 173-18-120, filed 8/27/73; Order DE 72-13, § 173-18-120, filed 6/30/72.]

WAC 173-18-130 Douglas County. Streams

	Stream Name	Quadrangle Name and Size	Legal Description
(1)	Columbia River (Cont.)*	Chief Joseph Dam 7 1/2 Bridgeport 7 1/2 Brewster 7 1/2 Wells Dam 7 1/2 Azwell 7 1/2 Chelan Falls 7 1/2 Wenatchee 7 1/2 Rock Island 7 1/2 Malala 7 1/2 Rock Island Dam 7 1/2 Chelan 7 1/2 Winesap 7 1/2 Entiat 7 1/2 Orondo 7 1/2 Rocky Reach Dam 7 1/2 West Bar 7 1/2	Beginning (Sec.24, T29N, R25E) below Chief Joseph Dam downstream to (Sec.13, T20N, R22E) excluding any federal lands. The flow exceeds 200 cfs MAF at Chief Joseph Dam.
(2)	Moses Coulee* (Rattlesnake Creek) (Douglas Creek)	Palisades* 7 1/2 Appledale 7 1/2 Rock Island Dam 7 1/2	From the confluence of Douglas Creek and Moses Coulee (Sec.36, T23N, R23E) downstream to mouth at Columbia River (Sec.33, T21N, R22E). This stream has over 300 sq. miles of drainage area ending at mouth of Douglas Creek.

[Order 73-14, § 173-18-130, filed 8/27/73; Order DE 72-13, § 173-18-130, filed 6/30/72.]

WAC 173-18-140 Ferry County. Streams

Stream Name		Quadrangle Name and Size	Legal Description
(1)	Boulder Creek	Orient 15 Orient 7 1/2	From the Colville National Forest boundary (Sec.36, T39N, R36E) downstream to mouth at Kettle River and Stevens County line (same section).
(2)	Columbia River (Cont.)*	Marcus 7 1/2	All of Columbia River (Franklin D. Roosevelt Lake) within Ferry County is under federal jurisdiction.
(3)	Curlew Creek	Curlew 15	From the confluence of Curlew Creek and St. Peter Creek (Sec.11, T38N, R33E) downstream to Kettle River (Sec.14, T39N, R33E).

	Stream Name	Quadrangle Name and Size	Legal Description
(4)	Kettle River*	Bodie Mtn. 15 Curlew 15 Togo Mtn. 15 Laurier 7 1/2 Orient 7 1/2	From the United States - Canada border (Sec.3, T40N, R32E) downstream to said border (Sec.3, T40N, R34E) returning to the U.S. (Sec.2, T40N, R36E) right bank only downstream to (Sec.20, T38N, R37E) excluding all Colville National Forest lands. The flow exceeds 200 cfs MAF at United States - Canada boundary.
(5)	Sanpoil River	Republic 15 Seventeen-Mile Mtn. 15 Keller 15 Wilbur 15	From the confluence of Sanpoil River and O'Brien Creek (Sec.5, T36N, R33E) downstream to federal boundary (Sec.12, T35N, R32E).
(6)	Toroda Creek (Cont.)	Bodie Mtn. 15	From the Intersection of Nickolson Creek and Toroda Creek (Sec.30, T40N, R32E) downstream to mouth at Kettle River near Toroda (Sec.27, same township).
(7)	Sherman Creek	Kettle Falls 15	From the Colville National Forest boundary (Sec.30, T36N, R37E) downstream to mouth at Columbia River (Sec.27, T36N, R37E).

[Order DE 76-14, § 173-18-140, filed 5/3/76; Order 73-14, § 173-18-140, filed 8/27/73; Order DE 72-13, § 173-18-140, filed 6/30/72.]

WAC 173-18-150 Franklin County. Streams

	Stream Name	Quadrangle Name and Size	Legal Description
(1)	Columbia River (Cont.)*	Hanford 15 Richland 15 Kennewick 7 1/2 Pasco 7 1/2	From Hanford Works boundary (Sec.23, T12N, R28E) downstream left bank only to (Sec.13, T9N, R28E) questionable. The flow exceeds 200 cfs MAF at Hanford Works boundary.
(2)	Esquatzel Coulee*	Mesa* 15 Eltopia 15	From mouth of Old Maid Coulee (Sec.11, T12N, R30E) downstream to a sump (Sec.12, T9N, R29E) (Esquatzel River gradually sinking into ground). This stream has over 300 sq. miles of drainage area ending at mouth of Old Maid Coulee.
(3)	Palouse River (Cont.)*	Starbuck 15	From Adams County line (Sec.5, T14N, R37E) downstream right bank only to mouth on Snake River (Sec.19, T13N, R37E). This stream has over 300 sq. miles of drainage area and over 200 cfs MAF flow at Adams County line.
(4)	Snake River (Cont.)*		All of Snake River within Franklin County is under federal jurisdiction. The flow exceeds 200 cfs MAF at Whitman County line.

[Order 73-14, § 173-18-150, filed 8/27/73; Order DE 72-13; § 173-18-150, filed 6/30/72.]

WAC 173-18-160 Garfield County. Streams

	Stream Name	Quadrangle Name and Size	Legal Description
(1)	Pataha Creek	Pomeroy 30 Hay 15 Zumwalt 7 1/2	From the confluence of Pataha Creek and Totman Gulch Stream (Sec.5, T11N, R41E) downstream to Columbia County line (Sec.7, T12N, R40E).
(2)	Snake River (Cont.)*	Clarkston 15 Colton 7 1/2 Bishop 7 1/2 Kirby 7 1/2 Alinota 7 1/2 Penawawa 15 Hay 15	From the Asotin County line (Sec.6, T11N, R45E) downstream along Whitman County line left bank only to the Columbia County line (Sec.7, T13N, R40E). The flow exceeds 200 cfs MAF at Asotin County line. Under federal jurisdiction.

[Order 73-14, § 173-18-160, filed 8/27/73; Order DE 72-13, § 173-18-160, filed 6/30/72.]

WAC 173-18-170 Grant County. Streams

	Stream Name	Quadrangle Name and Size	Legal Description
(1)	Columbia River (Cont.)*	Grand Coulee Dam 15 West Bar 7 1/2 Babcock Ridge 7 1/2 Cape Horn S.E. 7 1/2 Vantage 7 1/2 Beverly 7 1/2 Evergreen Ridge 7 1/2 Priest Rapids 15	From the Douglas County line on the Columbia River (Sec.18, T20N, R23E) downstream left bank only to Hanford Works boundary (Sec.10, T13N, R24E). The flow exceeds 200 cfs MAF at Douglas County line.
(2)	Crab Creek*	Marlin 7 1/2 Wilson Creek 15 Wilson Creek N.W. 7 1/2 Stratford 7 1/2 Soap Lake 7 1/2 Grant Orchards 7 1/2 Gloyd 7 1/2 Moses Lake North 7 1/2	From the Lincoln County line (Sec.13, T22N, R30E) downstream through Brook Lake to mouth at Parker Horn of Moses Lake (Sec.14, T19N, R28E). This stream has over 300 sq. miles drainage area.
(3)	Lind Coulee*	Basset Junction* 7 1/2 Sieler 7 1/2 Soda Lake 7 1/2 Corfu 15	From south section line (Sec.18, T18N, R30E) downstream to mouth of Potholes Reservoir (Sec.1 and 12,T17N,R28E). This stream has over 300 sq. miles of drainage area ending at Lind Coulee in (Sec.18, T18N, R30E).
(4)	Lower Crab Creek	Corfu 15 Smyrna 15 Beverly S.E. 7 1/2 Beverly 7 1/2	From CNW Refuge Bdy. (Sec.36, T16N, R26E) downstream excluding all federal lands to mouth at Columbia River (Sec.3, T15N, R23E).
(5)	Rocky Ford Creek	Grant Orchards 7 1/2 Moses Lake N.W. 7 1/2	From the confluence of Rocky Ford Creek and several springs (Sec.16, T21N, R27E) downstream to mouth at Moses Lake (Sec.8, T20N, R27E).

Stream Name	Quadrangle Name and Size	Legal Description
(6) Wilson Creek (Cont.)*	Almira S.W. 7 1/2 Hartline S.E. 7 1/2 Wilson Creek 15	From Lincoln County line (Sec.1, T24N, R30E) downstream to mouth at Crab Creek (Sec.12, T22N, R29E). This stream has over 300 sq. miles of drainage area.

[Order DE 76-14, § 173-18-170, filed 5/3/76; Order 73-14, § 173-18-170, filed 8/27/73; Order DE 72-13, § 173-18-170, filed 6/30/72.]

WAC 173-18-180 Grays Harbor County. Streams

Stream Name	Quadrangle Name and Size	Legal Description
(1) Andrews Creek	Grayland 7 1/2	From the confluence of Andrews Creek and unnamed creek (SW1/4 NW1/4 of Sec.2, T15N, R11W) downstream to mouth at Beardslee Slough of South Bay (Sec.27, T16N, R11W).
(2) Big Creek	Humptulips 15	From the confluence of the Big Creek and South Branch of the Big Creek (Sec.2, T19N, R10W) downstream to mouth at Humptulips River (Sec.1, T19N, R11W).
(3) Bitter Creek	Wynoochee Valley 15	From a point on the north line of (Sec.11, T18N, R8W) intersecting with Bitter Creek downstream to mouth at Black Creek (same section).
(4) Black Creek	Wynoochee Valley 15	From the confluence of Black Creek and the unnamed creek (Sec.13, T18N, R8W) downstream to mouth at Wynoochee River (Sec.26, T18N, R8W).
(5) Black River (Cont.)	Rochester 15	From the Thurston County line (Sec.27, T16N, R4W) downstream to mouth at Chehalis River (Sec.5, T15N, R4W) excluding all federal lands.
(6) Boone Creek	Moclips 7 1/2	From an approximate point in the (NW1/4 of NW1/4 of SW1/4 Sec.4, T19N, R12W) downstream to mouth at Pacific Ocean, near Iron Springs (Sec.4, T19N, R12W).
(7) Canyon River (Cont.)	Mt. Tebo 15 Wynoochee Valley 15 Grisdale 15	Beginning at Mason Co. and Grays Harbor Co. line (Sec.13, T21N, R7W) downstream to mouth at Satsop West Fork River (Sec.22, T20N, R7W).
(8) Carter Creek	Wynoochee Valley 15	From an approximate point on the west line of (NE1/4 Sec.12, T19N, R8W) downstream to mouth at Wynoochee River (Sec.14, T19N, R8W).
(9) Cedar Creek	Copalis Beach 7 1/2	From the confluence of Cedar Creek and unnamed creek (Sec.23, T19N, R12W), downstream to mouth at Copalis River (Sec.22, T19N, R12W).
(10) Cedar Creek	Rochester 15	From the Thurston County line (Sec.2, T16N, R4W) downstream to mouth at Chehalis River (Sec.10, T16N, R5W).
(11) Charley Creek	Aberdeen 7 1/2	From a point between confluence of one unnamed creek and Charley Creek and confluence of another unnamed creek and Charley Creek (Sec.27, T17N, R9W) downstream to mouth at south channel of Grays Harbor (Sec.18, T17N, R9W).
(12) Chehalis River (Cont.)*	Rochester 15 Malone 15 Montesano 15 Aberdeen 7 1/2	From the Thurston Co. line (Sec.10, T15N, R4W) downstream on the southerly shore only (north shore on Indian Reservation). Both shores beginning (Sec.25, T16N, R5W) downstream to mouth at Grays Harbor (Sec.9,T17N,R9W). The flow exceeds 1,000 cfs MAF at Thurston-Grays Harbor County line.
(13) Cloquallum Creek	Elma 15 Malone 15	From the Mason Co. line (Sec.1, T18N, R6W) downstream to mouth at Chehalis River (Sec.2, T17N, R6W).
(14) Connor Creek	Copalis Beach 7 1/2	From the confluence of Cranberry Creek (Sec.10, T18N, R12W) downstream to mouth at Pacific Ocean (Sec.33, T19N, R12W).
(15) Copalis River	Quinault Lake 15 Macafee Hill 15 Carlisle 7 1/2 Moclips 7 1/2 Copalis Beach 7 1/2	From the intersection of Copalis River and unimproved road (Sec.30, T21N, R10W) downstream to mouth at Pacific Ocean (Sec.21, T19N, R12W).
(16) Decker Creek (Cont.)	Elma 15	Beginning at a point where Decker Creek crosses Grays Harbor Co. and Mason Co. line (Sec.24, T20N, R7W) downstream to Grays Harbor Co. and Mason Co. line (Sec.25, of same Township).

Stream Name		Quadrangle Name and Size	Legal Description
(17)	Deep Creek	Humptulips 15 Copalis Crossing 7 1/2	From the confluence of Deep Creek and unnamed creek (Sec.30, T19N, R10W) downstream to mouth at Humptulips River (Sec.22, T19N, R11W).
(18)	Delezene Creek	Malone 15	From the confluence of the Delezene Creek and unnamed Creek (SE1/4 of NW1/4 Sec.27, T17N, R6W) downstream to the Chehalis River (Sec.12, T17N, R6W).
(19)	Donkey Creek	Quinault Lake 15	From the intersection of Olympic National Forest boundary and Donkey Creek (Sec.3, T21N, R9W) downstream to mouth at West Fork Humptulips River (Sec.16, T21N, R9W).
(20)	Elkhorn Creek	Montesano 15	From the confluence of Elk Horn Creek and unnamed creek (Sec.10, T15N, R8W) downstream to Pacific Co. line (same section).
(21)	Elk River (E. Br.)	Western 7 1/2	From the confluence of Elk River East Branch and unnamed creek (Sec.5, T15N, R10W) downstream to mouth at Elk River (same section).
(22)	Elk River	Western 7 1/2 Grayland 7 1/2	From the confluence of Elk River and East Branch Elk River (Sec.5, T15N, R10W) to mouth on South Bay (Sec.26, T16N, R11W).
(23)	Garrard Creek	Malone 15	From the confluence of the Garrard Creek and the Kellogg Creek (Sec.8, T15N, R5W) downstream to mouth at the Chehalis River (Sec.1, T15N, R5W).
(24)	Garrard Creek (S. Fk.) (Cont.)	Malone 15	From the Lewis County line SE corner (Sec.9, T15N, R5W) downstream to mouth at the Garrard Creek (Sec.10, T15N, R5W).
(25)	Hoquiam River	Humptulips 15 Hoquiam 7 1/2	From confluence of West and Middle Forks of Hoquiam River (Sec.22, T18N, R10W) downstream to mouth in Grays Harbor in Hoquiam (Sec.12, T17N, R10W).
(26)	Hoquiam River (E. Fk.)	Humptulips 15 Hoquiam 7 1/2	From the confluence of the East Fork Hoquiam River and unnamed creek (Sec.32, T20N, R9W) downstream to mouth at Hoquiam River (Sec.35, T18N, R10W).
(27)	Hoquiam River (M. Fk.)	Humptulips 15	From approximately the south line of the (NE1/4 of the SE1/4 Sec.30, T19N, R9W) downstream to mouth at Hoquiam River (Sec.22, T18N, R10W).
(28)	Hoquiam River (W. Fk.)	Humptulips 15	From intersection of West Fork Hoquiam River and middle duty road (Sec.34, T19N, R10W) downstream to mouth at Hoquiam River (Sec.22, T18N, R10W).
(29)	Humptulips River*	Humptulips* 15 Carlisle 7 1/2 Copalis Crossing 7 1/2	From the confluence of East and West Forks of Humptulips River (Sec.2, T20N, R10W) downstream to mouth at North Bay (Sec.21, T18N, R11W). The 1,000 cfs MAF point begins at confluence of East and West Forks.
(30)	Humptulips River (E. Fk.)	Quinault Lake 15 Humptulips 15	From the Olympic National Forest boundary (Sec.12, T21N, R9W) downstream to confluence with West Fork Humptulips River (Sec.2, T20N, R10W).
(31)	Humptulips River (W. Fk.)	Quinault Lake 15 Humptulips 15	From the Olympic National Forest boundary (Sec.9, T21N, R9W) downstream to confluence with East Fork Humptulips River (Sec.2, T20N, R10W).
(32)	Independence Creek (Cont.)	Rochester 15	From Lewis Co. line (Sec.10, T15N, R4W) downstream to mouth on Chehalis River (same section).
(33)	Joe Creek	Carlisle 7 1/2 Moclips 7 1/2	From the confluence of Joe Creek and unnamed creek (Sec.18, T20N, R11W) downstream to mouth at Pacific Beach (Sec.20, T20N, R12W).
(34)	Johns River (S. Fk.)	Western 7 1/2	From the confluence of South Fork Johns River and Hall Creek (Sec.22, T16N, R10W) downstream to mouth at North Fork Johns River (same section).

Stream Name	Quadrangle Name and Size	Legal Description
(35) Johns River (N. Fk.)	Hoquiam 7 1/2	From the confluence of North Fork Johns River and unnamed creek (Sec.15, T16N, R10W) downstream to mouth at Johns River (Sec.22, T16N, R10W).
(36) Little River	Grisdale 15	From an approximate point in (SW1/4 of NE1/4 of SE1/4 Sec.22, T21N, R7W) downstream to mouth at West Fork Satsop River (Sec.27, T21N, R7W).
(37) Little Hoquiam River	Hoquiam 7 1/2	From the confluence of Little Hoquiam River and the North Fork Little Hoquiam River (Sec.3, T17N, R10W) downstream to mouth at Hoquiam River (Sec.2, T17N, R10W).
(38) Little North River	Montesano 15	From an approximate point near the center of (NW1/4 of SW1/4 of NW1/4 (Sec.1, T16N, R8W) downstream to mouth at North River (Sec.8, T16N, R8W).
(39) Lower Salmon Creek	Montesano 15 Aberdeen S.E. 7 1/2	From the confluence of Lower Salmon Creek and unnamed creek (Sec.5, T15N, R8W) downstream to mouth at North River (Sec.7, T15N, R9W) except where it passes thru Pacific County in (Sec.14 and 15, T15N, R9W).
(40) Moclips River	Moclips 7 1/2	From the Quinault Indian Reservation boundary (Sec.9, T20N, R12W) downstream across said boundary and back, downstream to mouth at Pacific Ocean near the Town of Moclips (Sec.8, T20N, R12W).
(41) Mox Chehalis Creek	Elma 15 Malone 15	From the intersection of Mox Chehalis Creek and McCleary and Malone Road (Sec.24, T18N, R5W) downstream to mouth at Chehalis River (Sec.18, T17N, R5W).
(42) Newman Creek	Elma 15 Malone 15	From the intersection of Newman Creek and Newman Creek Road (Sec.29, T18N, R6W) downstream to mouth at Chehalis River (Sec.6, T17N, R6W).
(43) Newskah Creek	Aberdeen 7 1/2	From a point approximately 200' west of confluence of Newskah Creek and unnamed creek (NW1/4 of SE1/4 Sec.4, T16N, R9W) downstream to mouth at South Channel of Grays Harbor (Sec.18, T16N, R9W).
(44) North River* (Cont.)	Montesano 15 Aberdeen S.E. 7 1/2	From the Pacific Co. line (Sec.10, T15N, R7W) downstream to Pacific Co. line again (Sec.7, T15N, R9W). The 1,000 cfs MAF point begins at mouth of Lower Salmon Creek (Sec.7, T15N, R9W).
(45) Pioneer Creek	Malone 15	From the confluence of Pioneer Creek and unnamed creek (Sec.25, T16N, R7W) downstream to mouth at the North River (Sec.4, T15N, R7W).
(46) Porter Creek	Rochester 15 Malone 15	From the confluence of the North Fork Porter Creek and the South Fork Porter Creek (Sec.1, T17N, R5W) downstream to mouth at Chehalis River (Sec.28, T17N, R5W).
(47) Porter Creek (N. Fk.)	Rochester 15	From an approximate point near the SW corner of (SE1/4 on NW1/4 of NW1/4 of Sec.3, T17N, R4W) downstream to mouth at Porter Creek (Sec.1, T17N, R5W).
(48) Porter Creek (S. Fk.)	Rochester 15	From the confluence of Hell Creek and the S. Fork Porter Creek (Sec.7, T17N, R4W) downstream to mouth at Porter Creek (Sec.1, T17N, R5W).
(49) Porter Creek (W. Fk.)	Rochester 15	From the confluence of the West Fork Porter Creek and Bozy Creek (Sec.31, T18N, R4W) downstream to mouth at Porter Creek (Sec.11, T17N, R5W).
(50) Rainie Creek (Rt. Fk.)	Malone 15	From an approximate point near the center of the (SW1/4 of the NE1/4 Sec.3, T15N, R6W) downstream to Pacific County line (Sec.9, T15N, R6W).
(51) Raney Creek	Humptulips 15	From confluence of Raney Creek and unnamed creek (SE1/4 NE1/4 Sec.22, T20N, R9W) downstream to mouth at West Fork Wishkah River (Sec.26, T20N, R9W).

Stream Name		Quadrangle Name and Size	Legal Description
(52)	Rock Creek	Malone 15	From the confluence of Rock Creek and unnamed creek (Sec.11, T16N, R6W) downstream to mouth at Chehalis River (Sec.15, T16N, R5W).
(53)	Salmon Creek	Montesano 15	From the confluence of Salmon Creek and unnamed creek (Sec.13, T16N, R8W) downstream to mouth at North River (Sec.9, T16N, R8W).
(54)	Sand Creek	Malone 15	From an approximate point near the center of (SE1/4 of NE1/4 Sec.5, T17N, R5W) downstream to mouth at Mox Chehalis Creek (same section).
(55)	Satsop River*	Wynoochee Valley* 15 Elma 15 Malone 15	From the confluence of East and West Forks of Satsop River (Sec.23, T18N, R7W) downstream to mouth at Chehalis River (Sec.7, T17N, R6W). The flow is more than 1,000 cfs MAF at mouth of East Fork Satsop River (Sec.23, T18N, R7W).
(56)	Satsop River (E. Fk.)* Cont.)	Elma* 15 Wynoochee Valley 15	From Mason Co. and Grays Harbor Co. line (Sec.6, T18N, R6W) downstream to mouth at Satsop River (Sec.23, T18N, R7W). The 1,000 cfs MAF point begins at mouth of Middle Fork Satsop River, (Sec.3, T19W, R6W).
(57)	Satsop River (M. Fk.) (Cont.)	Mt. Tebo 15 Wynoochee Valley 15 Elma 15	From Mason Co. and Grays Harbor Co. line (Sec.1, T20N, R7W) downstream to Grays Harbor Co. and Mason Co. line (Sec.36, T19N, R7W).
(58)	Satsop River (W. Fk.)	Grisdale 15 Wynoochee Valley 15	From the Olympic National Forest boundary (Sec.10, T21N, R7W) downstream to mouth at confluence of West Fork Satsop River and East Fork Satsop River (Sec.23, T18N, R7W).
(59)	Schafer Creek	Wynoochee Valley 15	From an approximate point on the west line of (SE1/4 of SE1/4 Sec.1, T20N, R8W) downstream to mouth at the Wynoochee River (Sec.25, T20N, R8W).
(60)	Stevens Creek	Quinault Lake 15	From the confluence of Stevens Creek and unnamed creek (Sec.12, T21N, R10W) downstream to mouth at Humptulips River (Sec.12, T20N, R11W).
(61)	Sylvia Creek	Montesano 15	From the confluence of Sylvia Creek and unnamed creek (Sec.1, T17N, R8W) downstream to mouth at Wynoochee River (Sec.7, T17N, R7W).
(62)	Unnamed Tributary to Humptulips River	Humptulips 15	From the confluence of two unnamed creeks (Sec.14, T20N, R10W) downstream to mouth at Humptulips River (Sec.9, T20N, R10W).
(63)	Vance Creek	Malone 15	From the intersection of Vance Creek and light duty road (Sec.3,T17N, R6W) downstream to mouth at Chehalis River (Sec.6, T17N, R6W).
(64)	Vesta Creek (E. Fk.)	Malone 15 Montesano 15	From the confluence of the East Fork Vesta Creek and unnamed creek (Sec.13, T16N, R7W) downstream to mouth at Vesta Creek (Sec.14, T16N, R7W).
(65)	Vesta Creek	Montesano 15	From confluence of East and West Forks of Vesta Creek (Sec.14, T16N, R7W) downstream to mouth on North River (Sec.32, T16N, R7W).
(66)	Vesta Creek (W. Fk.)	Montesano 15	From the confluence of Vesta Creek West Fork and unnamed creek from the east (Sec.3, T16N, R7W) downstream to mouth at Vesta Creek (Sec.14, T16N, R7W).
(67)	Wedekind Creek	Wynoochee Valley 15	From the confluence of Wedekind Creek and unnamed creek (Sec.19, T18N, R8W) downstream to mouth at Wynoochee River (Sec.28, T18N, R8W).
(68)	Wildcat Creek	Elma 15	From the confluence of East and West Forks of Wildcat Creek (Sec.16, T18N, R5W) downstream to mouth at Cloquallum Creek (Sec.30, T18N, R5W).

Stream Name		Quadrangle Name and Size	Legal Description
(69)	Wildcat Creek (W. Fk.)	Elma 15	From the confluence of West Fork Wildcat Creek and unnamed creek (Sec.16, T18N, R5W) downstream to confluence with East Fork Wildcat Creek (same section).
(70)	Wildcat Creek (E. Fk.)	Elma 15	From the confluence of East Fork Wildcat Creek and unnamed creek (Sec.15, T18N, R5W) downstream to confluence of East Fork Wildcat Creek and West Fork Wildcat Creek (Sec.16, T18N, R5W).
(71)	Williams Creek	Malone 15	From the confluence of Williams Creek and unnamed creek (SE1/4 Sec.20, T16N, R5W) downstream to Rock Creek (Sec.16, T16N, R5W).
(72)	Wishkah River (W. Fk.)	Humptulips 15	From the confluence of West Fork Wishkah River and unnamed creek (Sec.15, T20N, R9W) downstream to mouth at Wishkah River (Sec.22, T19N, R9W).
(73)	Wishkah River (E. Fk.)	Wynoochee Valley 15 Humptulips 15	From the confluence of the East Fork Wishkah River and unnamed creek (Sec.28, T20N, R8W) downstream to mouth at Wishkah River (Sec.2, T18N, R9W).
(74)	Wishkah River	Grisdale 15 Wynoochee Valley 15 Humptulips 15 Aberdeen 7 1/2	From the confluence of Wishkah River and unnamed creek inside the state game reserve (Sec.20, T21N, R8W) downstream to mouth at the Chehalis River at Aberdeen (Sec.9, T17N, R9W).
(75)	Workman Creek	Malone 15	From the confluence of Workman Creek and unnamed creek (NW1/4 SE1/4 Sec.20, T17N, R6W) downstream to mouth at Chehalis River (Sec.9, T17N, R6W).
(76)	Wynoochee River*	Grisdale 15 Wynoochee Valley* 15 Montesano 7 1/2	From the Olympic National Forest boundary (Sec.1, T21N, R8W) downstream to mouth at Chehalis River (Sec.18, T17N, R7W). The 1,000 cfs MAF point begins at mouth of Carter Creek (Sec.14, T19N, R8W).
(77)	Johns River	Western 7 1/2 Hoquiam 7 1/2	From confluence of North Fork and South Fork Johns River (Sec.22, T16N, R10W) downstream to its mouth at Grays Harbor (Sec.36, T17N, R11W).
(78)	Quinault River* (Cont.)	Kloochman Rock 15 Quinault Lk.	From Jefferson/Grays Harbor County line (Sec.1, T23W, R9W) downstream to mouth at Quinault Lake (Sec.16, T23W, R9W). Exclude federal lands. The flow is over 1,000 cfs MAF at Jefferson/Grays Harbor County line.

[Order DE 76-14, § 173-18-180, filed 5/3/76; Order 73-14, § 173-18-180, filed 8/27/73; Order DE 72-13, § 173-18-180, filed 6/30/72.]

WAC 173-18-190 Island County. Streams

Island County has no 20 cfs streams but has shorelines. Island County has no 1,000 cfs MAF rivers of statewide significance.

[Order 73-14, § 173-18-190, filed 8/27/73; Order DE 72-13, § 173-18-190, filed 6/30/72.]

WAC 173-18-200 Jefferson County. Streams

Stream Name		Quadrangle Name and Size	Legal Description
(1)	Big Quilcene River	Mt. Walker 7 1/2 Quilcene 7 1/2	From the Olympic National Forest boundary (Sec.27, T27N, R2W) downstream to mouth at Quilcene Bay (Sec.19, T27N, R1W).
(2)	Bogachiel River*	Indian Pass* 7 1/2 Anderson Creek 7 1/2 Reade Hill 7 1/2	From the Olympic National Forest boundary (Sec.4, T27N, R12W) downstream to the Clallam County line (Sec.2, T27N, R13W). The flow exceeds 1,000 cfs MAF at Olympic National Park boundary.
(3)	Cedar Creek	Destruction Island 15	From the confluence of Cedar Creek and the South Fork of Cedar Creek (Sec.34, T26N, R13W) downstream to the Olympic National Park boundary (Sec.33, T26N, R13W).
(4)	Chimacum Creek	Port Townsend S. 7 1/2	From the confluence of Chimacum Creek and unnamed creek in Chimacum Valley (Sec.11, T29N, R1W) downstream to mouth at Bay of Port Townsend (Sec.35, T30N, R1W) near Irondale.

Stream Name	Quadrangle Name and Size	Legal Description
(5) Christmas Creek	Salmon River 15	From an approximate point near the center of (NE1/4 of Sec.2, T25N, R12W) downstream to mouth at Clearwater River (Sec.22, T25N, R12W).
(6) Clearwater River*	Kloochman Rock 15 Salmon River* 15 Destruction Island 15	From the confluence of Clearwater River and unnamed creek (Sec.25, T26N, R10W) downstream (excluding federal lands) to Quinault Indian Reservation (Sec.29, T24N, R12W). The 1,000 cfs MAF point begins at mouth of Miller Creek (Sec.27, T25N, R12W).
(7) Dosewallips River	Brinnon 7 1/2	From the Olympic National Forest boundary between (Sec.25, T26N, R3W) and (Sec.30, T26N, R2W) downstream to mouth at Dabob Bay near Brinnon (Sec.2, T25N, R2W).
(8) Duckabush River	Brinnon 7 1/2	From the Olympic National Forest boundary between (Sec.17 & 18, T25N, R2W) downstream to mouth at Hood Canal (Sec.21, T25N, R2W).
(9) Fulton Creek	Brinnon 7 1/2 Holly 7 1/2	From the confluence of Fulton Creek and the South Fork of Fulton Creek (Sec.30, T25N, R2W) downstream to mouth at Hood Canal (Sec.31, T25N, R2W).
(10) Goodman Creek	Forks 15 LaPush 15	From the confluence of Goodman Creek and unnamed creek (Sec.23, T27N, R13W) downstream to Olympic National Park boundary (Sec.23, T27N, R14W).
(11) Hoh River*	Spruce Mt.* 15 Forks 15 Destruction Island 15	From the Olympic National Park boundary (Sec.29, T27N, R10W) downstream to Hoh Indian Reservation boundary (Sec.20, T26N, R13W). The 1,000 cfs MAF point starts at the Olympic National Park boundary.
(12) Hoh River (S. Fk.)	Mt. Tom 15	From the Olympic National Park boundary (Sec.2, T26N, R10W) downstream to the Olympic National Forest boundary (Sec.29, T27N, R10W).
(13) Hurst Creek	Destruction Island 15	From an approximate point near the north line of (SE1/4 of NW1/4 of NE1/4 of Sec.17, T24N, R12W) downstream to mouth at the Clearwater River (Sec.19, T24N, R12W).
(14) Kalaloch Creek	Destruction Island 15	From the confluence of Kalaloch Creek and West Fork Kalaloch Creek (Sec.17, T25N, R13W) downstream to the Olympic National Park boundary (Sec.3, T24N, R13W).
(15) Little Quilcene River	Mt. Walker 7 1/2 Quilcene 7 1/2	From the Olympic National Forest boundary (Sec.33, T28N, R2W) downstream to mouth at Quilcene Bay (Sec.18, T27N, R1W).
(16) Maple Creek	Spruce Mt. 15	From the confluence of Maple Creek and Dry Creek (Sec.3, T26N, R11W) downstream to Hoh River (Sec.35, T27N, R11W).
(17) Matheny Creek	Salmon River 15	From the Olympic National Forest boundary (Sec.24, T24N, R11W) downstream to the Olympic National Park boundary (Sec.22, T24N, R11W).
(18) Miller Creek	Destruction Island 15 Salmon River 15	From the confluence of Miller Creek and unnamed creek (Sec.17, T25N, R12W) downstream to mouth at Clearwater River (Sec.27, T25N, R12W).
(19) Miller Creek (E. Fk.)	Salmon River 15	From the confluence of the East Fork Miller Creek and unnamed creek (Sec.15, T25N, R12W) downstream to mouth at Miller Creek (Sec.27, T25N, R12W).
(20) Minter Creek	Forks 15	From the intersection of the north line of (Sec.30, T27N, R13W) and Minter Creek, downstream to Goodman Creek (Sec.24, T27N, R14W).
(21) Mosquito Creek	Forks 15	From the intersection of north line of (Sec.5, T26N, R13W) and Mosquito Creek, downstream to Olympic National Park boundary (Sec.36, T27N, R14W).

Stream Name	Quadrangle Name and Size	Legal Description
(22) Nolan Creek	Destruction Island 15 Forks 15	From an approximate point on the north line of (NE1/4 of SW1/4 of Sec.21, T26N, R12W) downstream to mouth at Hoh River (Sec.23, T26N, R13W).
(23) Owl Creek	Spruce Mt. 15	From an approximate point near the center of the north line of (SW1/4 of NE1/4 of Sec.8, T26N, R10W) downstream to mouth at Hoh River (Sec.35, T27N, R11W).
(24) Salmon River	Salmon River 15	From the Olympic National Forest boundary (Sec.36, T24N, R11W) downstream back to said boundary (Sec.35) coming out of Indian Reservation (Sec.36, T24N, R12W) returning to Indian Reservation and coming out again (Sec.35, T24N, R12W) downstream to Olympic National Forest boundary (same section).
(25) Shale Creek	Salmon River 15 Destruction Island 15	From an approximate point near the NE corner of the (SE1/4 of SW1/4 of Sec.26, T25N, R12W) downstream to mouth at Clearwater River (Sec.28, T25N, R12W).
(26) Snahapish River	Salmon River 15	From the intersection of Snahapish River and unimproved road (Sec.21, T26N, R11W) downstream to mouth at Clearwater River (Sec.19, T25N, R11W).
(27) Snow Creek	Uncas 7 1/2	From the confluence of Snow Creek and unnamed creek from Crocker Lake (Sec.2, T28N, R2W) downstream to mouth at Port Discovery (Sec.24, T29N, R2W).
(28) Solleks River	Kloochman Rock 15 Salmon River 15	From the confluence of Solleks River and unnamed creek (Sec.2, T25N, R10W) downstream to mouth at Clearwater River (Sec.10, T25N, R11W).
(29) Stequaleho Creek	Salmon River 15	From the confluence of the Stequaleho Creek and unnamed creek (Sec.19, T25N, R10W) downstream to mouth at Clearwater River (Sec.16, T25N, R11W).
(30) Winfield Creek	Spruce Mt. 15	From the confluence of Winfield Creek and unnamed creek (Sec.1, T26N, R12W) downstream to mouth at the Hoh River (Sec.27, T27N, R12W).
(31) Quinault River*	Mt. Christie* 15 Kloochman Rock 15	From east section line (Sec.33, T24N, R8W) downstream to Jefferson/Grays Harbor County line (Sec.1, T23N, R9W). Exclude federal land. The flow is over 1000 cfs MAF at east section line (Sec.33, T24N, R8W).

[Statutory Authority: RCW 90.58.200. 90-06-068 (Order 89-60), § 173-18-200, filed 3/6/90, effective 4/6/90; Order DE 76-14, § 173-18-200, filed 5/3/76; Order 73-14, § 173-18-200, filed 8/27/73; Order DE 72-13, § 173-18-200, filed 6/30/72.]

WAC 173-18-210 King County. Streams

Stream Name	Quadrangle Name and Size	Legal Description
(1) Bear Creek	Eagle Gorge 7 1/2	From an approximate point (NE corner of SE1/4 of SW1/4 of NW1/4 of Sec.28, T21N, R8E) downstream to mouth at Green River (Sec.20, same township).
(2) Bear Creek	Everett 15 Bothell 7 1/2	From the intersection of Bear Creek and the east section line (Sec.9, T26N, R5E) downstream to mouth at Sammamish River (same section).
(3) Bear	Redmond 7 1/2	From the confluence with Seidel Creek (Sec.20, T26N, R6E) downstream to mouth (Sec.6, T25N, R6E).
(4) Beckler River (Cont.)	Skykomish 7 1/2	From the Snohomish County line (Sec.5, T26N, R12E) downstream to Skykomish River (South Fork) (Sec.25, T26N, R11E).
(5) Big Soos Creek	Auburn 7 1/2	From the confluence of the Big Soos Creek and the Little Soos Creek (Sec.35, T22N, R5E) downstream to mouth at Green River (Sec.16, T21N, R5E).
(6) Black River	Renton 7 1/2 Des Moines 7 1/2	From confluence of Spring Brook Creek and Black River (Sec.13, T23N, R4E) downstream to mouth of Duwamish River (Sec.14, same township).

Stream Name		Quadrangle Name and Size	Legal Description
(7)	Boise Creek	Enumclaw 15 Enumclaw 7 1/2 Buckley 7 1/2	From an approximate point (NW corner of the SE1/4 of SE1/4 of NE 1/4 of Sec.28, T20N, R7E) downstream to mouth at White River (Sec.34, T20N, R6E).
(8)	Boxley Creek	Bandera 15	From an approximate point (NW1/4 of SW1/4 of Sec.25, T23N, R8E) downstream to mouth at South Fork Snoqualmie River (Sec.24, same township).
(9)	Calligan Creek	Mount Si 15	From an approximate point (SE1/4 of NE1/4 of Sec.3, T24N, R9E) downstream through Calligan Lake to mouth at Snoqualmie River (North Fork) (Sec.31, T25N, R9E).
(10)	Carroll Creek	Scenic 7 1/2	From the Snoqualmie National Forest boundary (Sec.35, T26N, R12E) downstream to mouth at Tye River (Sec.26, same township).
(11)	Cedar River	North Bend 7 1/2 Hobart 7 1/2 Maple Valley 7 1/2 Renton 7 1/2 Mercer Island 7 1/2 Cumberland 7 1/2	From east section line (Sec.9, T21N, R10E) downstream to mouth at Lake Washington in Renton (Sec.7, T23N, R5E), excluding all federal lands.
(12)	Champion Creek	Greenwater 15	From the confluence of Champion Creek and unnamed creek (Sec.28, T20N, R10E) downstream to mouth at Green River (Sec.20, same township).
(13)	Charley Creek	Eagle Gorge 7 1/2	From the Snoqualmie National Forest boundary (Sec.3, T20N, R8E) downstream to mouth at Howard Hanson Reservoir (Sec.34, T21N, R8E).
(14)	Cherry Creek	Monroe 15 Monroe 7 1/2 Carnation 7 1/2	From the confluence of Cherry Creek and Hannen Creek (Sec.2, T26N, R7E) downstream to mouth at Snoqualmie River (Sec.6, same township).
(15)	Coal Creek	Cumberland 7 1/2	From the confluence of Coal Creek and unnamed creek (Sec.27, T21N, R7E) downstream to mouth at Fish Lake (Sec.31, same township).
(16)	Covington Creek	Black Diamond 7 1/2 Auburn 7 1/2	From the confluence of waters from Lake Sawyer (Sec.4, T21N, R6E) downstream to mouth at Big Soos Creek (Sec.11, T21N, R5E).
(17)	Evans Creek	Redmond 7 1/2	From the confluence of Evans Creek and unnamed creek (Sec.8, T25N, R6E) downstream to mouth at Sammamish River (Sec.11, T25N, R5E).
(18)	Foss River	Skykomish 7 1/2	From the Snoqualmie National Forest boundary (Sec.32, T26N, R12E) downstream (excluding portion of federal lands) to mouth at Skykomish River (Sec.31, same township).
(19)	Friday Creek	Lester 15	From the confluence of Friday Creek and unnamed creek (Sec.18, T20N, R11E) downstream to mouth at the Green River (same section).
(20)	Gale Creek	Bandera 15	From the confluence of Gale Creek and unnamed creek (Sec.36, T21N, R8E) downstream to mouth at Howard Hanson Reservoir (same section).
(21)	Granite Creek	Bandera 15	From an approximate point (SE1/4 of SE1/4 of SW1/4 of Sec.11, T23N, R9E) downstream to mouth at the Middle Fork Snoqualmie River (Sec.10, same township).
(22)	Green River*	Lester 15 Greenwater 15 Bandera 15 Eagle Gorge* 7 1/2 Cumberland 7 1/2 Black Diamond 7 1/2 Auburn 7 1/2 Renton 7 1/2 Des Moines 7 1/2 Seattle South 7 1/2	From confluence of Green River and Tacoma Creek (Sec.35, T20N, R11E) downstream thru Duwamish River to mouth on Elliott Bay (Sec.18, T24N, R4E) (thru Howard Hanson Reservoir also). The 1,000 cfs MAF point begins at the toe of Howard A. Hanson Dam (Sec.28, T21N, R8E).
(23)	Green River (N. Fk.)	Bandera 15 Eagle Gorge 7 1/2	From the Snoqualmie National Forest boundary (Sec.18, T21N, R9E) downstream to mouth at Howard Hanson Reservoir (Sec.22, T21N, R8E).
(24)	Greenwater River	Lester 15 Greenwater 15	From the Snoqualmie National Forest boundary (Sec.31, T19N, R11E) downstream to White River (along the northerly shore only) (Sec.4, T19N, R9E). Exclude federal lands.
(25)	Griffin Creek	Lake Joy 7 1/2 Snoqualmie 7 1/2 Fall City 7 1/2	From the confluence of Griffin Creek and East Fork Griffin Creek (Sec.19, T25N, R8E) downstream to mouth at the Snoqualmie River (Sec.28, T25N, R7E).

Stream Name	Quadrangle Name and Size	Legal Description
(26) Hancock Creek	Mount Si 15	From an approximate point (NE1/4 of NW 1/4 of Sec.15, T24N, R9E) downstream to mouth at Lake Hancock thence downstream to North Fork Snoqualmie River (Sec.7, same township).
(27) Harris Creek	Carnation 7 1/2	From the intersection of Harris Creek and Swan Mill Road (Sec.34, T26N, R7E) downstream to mouth at Snoqualmie River (Sec.5, T25N, R7E).
(28) Index Creek	Index 15 Baring 7 1/2	From the Snoqualmie National Forest boundary (Sec.10, T26N, R10E) downstream to mouth at South Fork Skykomish River (Sec.2, same township).
(29) Issaquah Creek	Hobart 7 1/2 Maple Valley 7 1/2 Issaquah 7 1/2	From the confluence of Holder Creek and Carey Creek (Sec.25, T23N, R6E) downstream to mouth at Sammamish Lake (Sec.17, T24N, R6E).
(30) Jenkins Creek	Black Diamond 7 1/2 Auburn 7 1/2	From the intersection of Jenkins Creek and light-duty county road (Sec.36, T22N, R5E) downstream to mouth at Big Soos Creek (Sec.2, T21N, R5E).
(31) Kimball Creek	Snoqualmie 7 1/2	From the confluence of Coal Creek and Kimball Creek (Sec.31, T24N, R8E) downstream to mouth at Snoqualmie River (Sec.30, same township).
(32) Maloney Creek	Skykomish 7 1/2	From the Snoqualmie National Forest boundary (Sec.35, T26N, R11E) downstream to mouth at South Fork Skykomish River (Sec.26, same township).
(33) Martin Creek	Scenic 7 1/2	From the Snoqualmie National Forest boundary (Sec.13, T26N, R12E) downstream to federal boundary (Sec.25, same township).
(34) May Creek	Mercer Island 7 1/2	From the intersection of May Creek and light-duty road (SE1/4, SE1/4 Sec.32, T24N, R5E) downstream to mouth at Lake Washington (same section).
(35) Mercer Slough	Mercer Island 7 1/2	From the east section line (Sec.5, T24N, R5E) downstream through Mercer Slough to mouth at East Channel (Sec.8, same township).
(36) Miller River	Grotto 7 1/2	From the Snoqualmie National Forest boundary (Sec.33, T26N, R11E) downstream, excluding those reaches within Snoqualmie National Forest, to mouth at Skykomish River (Sec.28, same township).
(37) Money Creek	Grotto 7 1/2	From the Snoqualmie National Forest boundary (Sec.28, T26N, R11E) downstream back to the Snoqualmie National Forest boundary (same section).
(38) Newaukum Creek	Enumclaw 15 Enumclaw 7 1/2 Buckley 7 1/2 Black Diamond 7 1/2	From the confluence of Newaukum Creek and unnamed creek (Sec.7, T20N, R7E) downstream to mouth at the Green River (Sec.29, T21N, R6E).
(39) North Creek (Cont.)	Everett 15 Bothell 7 1/2	From King County and Snohomish County line (Sec.5, T26N, R5E) downstream to mouth at Sammamish River (Sec.8, same township).
(40) North Fork Creek	Lake Joy 7 1/2	From the beginning of creek at swamp (Sec.18, T26N, R8E) downstream to mouth at North Fork Tolt River (Sec.29, same township).
(41) Patterson Creek	Fall City 7 1/2	From the confluence of Patterson Creek and Canyon Creek (Sec.8, T24N, R7E) downstream to mouth at the Snoqualmie River (Sec.4, same township).
(42) Philippa Creek	Mount Si 15	From an approximate point (SE1/4 of Sec.22, T25N, R9E) downstream to mouth at Snoqualmie River (Sec.15, same township).
(43) Pratt River	Snoqualmie Pass 15 Bandera 15 Mount Si 15	From east section line (Sec.27, T23N, R10E) downstream to mouth on Middle Fk. Snoqualmie R. (Sec.31, T24N, R10E) excluding federal lands.
(44) Raging River	North Bend 7 1/2 Hobart 7 1/2 Fall City 7 1/2	From the confluence of Raging River and unnamed stream (SE1/4 of NW1/4 Sec.25, T23N, R7E) downstream to mouth at Snoqualmie River (Sec.14, T24N, R7E) near Fall City.

Stream Name		Quadrangle Name and Size	Legal Description
(45)	Rock Creek	Greenwater 15	From the Snoqualmie National Forest boundary (Sec.34, T20N, R10E) downstream to mouth at Green River (Sec.21, same township).
(46)	Rock Creek	Hobart 7 1/2	From the confluence of Rock Creek and waters from the diversion ditch (Sec.16, T22N, R7E) downstream to mouth at the Cedar River (Sec.17, same township).
(47)	Rock Creek	Maple Valley 7 1/2	From the intersection of county road, railroad and Rock Creek (Sec.22, T22N, R6E) downstream to Cedar River (Sec.23, same township).
(48)	Sammamish River	Redmond 7 1/2 Kirkland 7 1/2 River Bothell 7 1/2 Edmonds East 7 1/2	From Sammamish Lake (Sec.13, T25N, R5E) downstream to mouth at Lake Washington (Sec.11, T26N, R4E).
(49)	Sawmill Creek	Lester 15	From the Snoqualmie National Forest boundary (Sec.30, T20N, R11E) downstream, excluding all federal lands to mouth at Green River (Sec.24, T20N, R10E).
(50)	Scatter Creek	Enumclaw 15	From the confluence of Scatter Creek and unnamed creek (Sec.2, T19N, R7E) downstream to mouth at the White River (Sec.11, same township).
(51)	Skykomish River* (S. Fk.)	Skykomish* 7 1/2 Grotto 7 1/2 Baring 7 1/2	From confluence of Tye River and Foss River (Sec.31, T26N, R12E) downstream to Snohomish County line (Sec.3, T26N, R10E) excluding all federal lands. The 1,000 cfs MAF point begins at mouth of Beckler Creek (Sec.25, T26N, R11E).
(52)	Smay Creek	Greenwater 15	From the Snoqualmie National Forest boundary (Sec.7, T20N, R10E) downstream to mouth at Green River (Sec.13, T20N, R9E).
(53)	Snoqualmie River*	Snoqualmie* 7 1/2 Fall City 7 1/2 Carnation 7 1/2 Redmond 7 1/2 Monroe 7 1/2	From the confluence of Middle Fork and South Fork of Snoqualmie River (Sec.33, T24N, R8E) downstream to Snohomish County line (Sec.6, T26N, R7E). The 1,000 cfs MAF point begins at confluence of Middle Fork and South Fork Snoqualmie River.
(54)	Snoqualmie River (M. Fk.)*	Mount Si* 15 Bandera 15 North Bend 7 1/2 Snoqualmie 7 1/2	From Snoqualmie National Forest boundary (Sec.26, T24N, R10E) downstream to confluence with South Fork of Snoqualmie River (Sec.33, T24N, R8E), excluding all federal lands. The 1,000 cfs MAF point begins at Snoqualmie National Forest boundary.
(55)	Snoqualmie River (N. Fk.)	Mount Si 15 Snoqualmie 7 1/2 North Bend 7 1/2	From the Snoqualmie National Forest boundary (Sec.12, T25N, R9E) downstream to mouth at Snoqualmie River (Main Fork) (Sec.34, T24N, R8E).
(56)	Snoqualmie River (S. Fk.)	Bandera 15 North Bend 7 1/2 Snoqualmie 7 1/2	From the Snoqualmie National Forest boundary (Sec.33, T23N, R11E) downstream to confluence with Snoqualmie River (Main Fork) (Sec.33, T24N, R8E) excluding all federal lands.
(57)	Spring Brook Creek	Renton 7 1/2	From the intersection of Spring Brook Creek and medium-duty road (SW1/4 of NE1/4 of Sec.24, T23N, R4E) downstream to mouth at Black River (Sec.13, same township).
(58)	Sunday Creek	Lester 15	From the Snoqualmie National Forest boundary (Sec.3, T20N, R11E) downstream to mouth at the Green River (Sec.18, T20N, R11E) Exclude federal lands.
(59)	Sunday Creek	Mount Si 15	From the Snoqualmie National Forest boundary (Sec.13, T25N, R9E) downstream to mouth at the North Fork Snoqualmie River (Sec.15, same township).
(60)	Swamp Creek (Cont.)	Bothell 7 1/2	From Snohomish County line (Sec.2, T26N, R4E) downstream to mouth at Sammamish River (Sec.12, same township).
(61)	Taylor Creek	Eagle Gorge 7 1/2 North Bend 7 1/2	From confluence of Middle Fork and South Fork Taylor Creek (Sec.32, T22N, R8E) downstream to mouth at Cedar River (Sec.13, T22N, R7E).
(62)	Ten Creek	Snoqualmie 7 1/2	From the intersection of light-duty road and Ten Creek (Sec.11, T24N, R8E) downstream to mouth at Tokul Creek (Sec.9, same township).

Stream Name		Quadrangle Name and Size	Legal Description
(63)	Tokul Creek	Lake Joy 7 1/2 Snoqualmie 7 1/2	From the confluence of Tokul Creek and Beaver Creek (Sec.21, T25N, R8E) downstream to mouth at Snoqualmie River (Sec.24, T24N, R7E).
(64)	Tolt River	Lake Joy 7 1/2	From the confluence of North Fork Tolt River and South Fork Tolt River (Sec.31, T26N, R8E) downstream to mouth at Snoqualmie River (Sec.21, T25N, R7E).
(65)	Tolt River (N. Fk.)	Mount Si 15 Lake Joy 7 1/2	From confluence with Titicaed Creek (Sec.12, T26N, R9E) downstream to mouth at Tolt River (Sec.31, T26N, R8E).
(66)	Tolt River (S. Fk.)	Mount Si 15 Lake Joy 7 1/2	From the Snoqualmie National Forest boundary (Sec.31, T26N, R10E) downstream to mouth at Tolt River (Sec.31, T26N, R8E).
(67)	Tye River	Scenic 7 1/2 Skykomish 7 1/2	From the Snoqualmie National Forest boundary (Sec.26, T26N, R12E) downstream to mouth at Skykomish River (Sec.31, same township) excluding all federal lands.
(68)	Unnamed Tributary to Index Creek	Index 15	From the Snoqualmie National Forest boundary (Sec.10, T26N, R10E) downstream to mouth at Index Creek (same section).
(69)	Unnamed Tributary to Snoqualmie River (N. Fk.)	Mount Si 15	From the confluence of unnamed tributary to Snoqualmie River (North Fork) and another unnamed creek (Sec.29, T24N, R9E) downstream to mouth at North Fork Snoqualmie River (Sec.19, same township).
(70)	Unnamed Tributary to Tolt River (S. Fk.)	Mount Si 15	From the confluence of unnamed tributary to Tolt River South Fork and another unnamed stream (Sec.35, T26N, R8E) downstream to South Fork Tolt River (same section).
(71)	White River*	Greenwater* 15 Enumclaw 15 Enumclaw 7 1/2 Buckley 7 1/2 Sumner 7 1/2 Auburn 7 1/2	From confluence of White River and Greenwater River (Sec.4, T19N, R9E) downstream following King-Pierce County line to Pierce County line (Sec.36, T21N, R4E) excluding Indian Reservation lands. The 1,000 cfs MAF point begins at mouth of Greenwater River.
(72)	Issaquah Creek (E. Fk.)	Issaquah 7 1/2	From railroad bridge (SE1/4 Sec.27, T24N, R6E) downstream to mouth at Issaquah Creek (Sec.28, same township).
(73)	Cedar River (N. Fk.)	Snoqualmie Pass 15	From confluence of Cedar River North Fk. and unnamed creek (Sec.7, T21N, R11E) downstream to mouth at Cedar River (Sec.10, T21N, R10E) excluding federal lands.
(74)	Cedar River (S. Fk.)	Snoqualmie Pass 15	From Snoqualmie National Forest boundary, east line of (Sec.23, T21N, R10E) downstream to mouth at Cedar River (Sec.10, T21N, R10E) excluding federal lands.
(75)	Rex River	Bandera 15	From Snoqualmie National Forest south boundary (Sec.11, T21N, R9E). downstream to mouth at Chester Morse Lake (Sec.19, T22N, R9E).
(76)	Taylor Creek (M. Fk.)	Eagle Gorge 7 1/2	From confluence of unnamed tributary (NE1/4 of NE1/4 Sec.34, T22N, R8E) downstream to mouth at Taylor Creek (Sec.32, T22N, R8E).
(77)	Taylor Creek (N. Fk.)	Eagle Gorge 7 1/2	From the bridge crossing in (NW1/4, NW1/4 Sec.29, T22N, R8E) downstream to mouth at Taylor Creek (Sec.29, T22N, R8E).

[Statutory Authority: RCW 90.58.120 and 90.58.200. 80-08-052 (Order DE 80-20), § 173-18-210, filed 6/30/80; Order DE 77-15, § 173-18-210, filed 9/1/77; Order DE 76-14, § 173-18-210, filed 5/3/76; Order 73-14, § 173-18-210, filed 8/27/73; Order DE 72-13, § 173-18-210, filed 6/30/72.]

WAC 173-18-220 Kitsap County. Streams

Stream Name		Quadrangle Name and Size	Legal Description
(1)	Big Beef Creek	Wildcat Lake 7 1/2 Seabeck 7 1/2	From the confluence of Big Beef Creek and unnamed creek (Sec.34, T25N, R1W) downstream to mouth at Big Beef Harbor (Sec.15, same township).
(2)	Black Jack Creek	Bremerton West 7 1/2	From the confluence of Black Jack Creek and unnamed creek (Sec.11, T23N, R1E) downstream to mouth at Sinclair Inlet (Sec.25, T24N, R1E).

Stream Name	Quadrangle Name and Size	Legal Description
(3) Burley Creek	Burley 7 1/2	From the confluence of Burley Creek and unnamed creek (Sec.12, T22N, R1E) downstream to mouth at Burley Lagoon (same section).
(4) Chico Creek	Bremerton West 7 1/2	From the confluence of Chico Creek and Dickerson Creek (Sec.8, T24N, R1E) downstream to mouth in Chico Bay on Dyes Inlet (Sec.5, same township).
(5) Curley Creek	Bremerton East 7 1/2	From an approximate point (NE1/4 of NE1/4 of Sec.8, T23N, R2E) downstream to mouth at Yukon Harbor (Sec.33, T24N, R2E).
(6) Tahuya River	Wildcat Lake 7 1/2	From the confluence of the Tahuya River and unnamed creek (Sec.25, T24N, R2W) downstream to Mason County line (Sec.1, T23N, R2W).
(7) Union River	Wildcat Lake 7 1/2 Belfair 7 1/2	From the confluence of Union River and East Fork Union River (Sec.10, T23N, R1W) downstream to Mason Co. line (Sec.9, T23N, R1W).

[Order 73-14, § 173-18-220, filed 8/27/73; Order DE 72-13, § 173-18-220, filed 6/30/72.]

WAC 173-18-230 Kittitas County. Streams

Stream Name	Quadrangle Name and Size	Legal Description
(1) Big Creek	Easton 15	From the Wenatchee National Forest boundary (Sec.35, T20N, R13E) downstream (excluding federal lands) to mouth at Yakima River (Sec.21, T20N, R14E).
(2) Cabin Creek	Lester 15 Easton 15	From Wenatchee National Forest boundary (Sec.19, T20N, R13E) downstream to mouth on Yakima River (Sec.9, T20N, R13E).
(3) Cle Elum River*	Kachess Lake* 15 Easton 15 Cle Elum 15	From the Wenatchee National Forest boundary crossing Cle Elum Lake (Sec.33, 34 & 35, T21N, R14E) downstream to mouth at Yakima River (Sec.32, T20N, R15E). The stream flow exceeds 200 cfs MAF at Wenatchee National Forest boundary.
(5) Columbia River (Cont.)*	Rock Island Dam* 7 1/2 West Bar 7 1/2 Babcock Ridge 7 1/2 Cape Horn S.E. 7 1/2 Evergreen 7 1/2 Vantage 7 1/2 Beverly 7 1/2 Priest Rapids 7 1/2	From the Chelan Co. line on the Columbia River (Sec.5, T20N, R22E) downstream along the Douglas and Kittitas Co. line to Yakima Co. (Sec.32, T15N, R23E). The stream flow exceeds 200 cfs MAF at Chelan Co. line.
(6) Kachess River*	Kachess Lake* 15	From the Wenatchee National Forest (Sec.3, T20N, R13E) downstream through Lake Easton State Park and to mouth at Yakima River (same section). The flow exceeds 200 cfs MAF at Wenatchee National Forest boundary.
(7) Little Creek	Easton 15	From the Wenatchee National Forest boundary (Sec.33, T20N, R14E) (excluding all federal lands) downstream to mouth at Yakima River (Sec.22, T20N, R14E).
(8) Log Creek	Lester 15	From confluence of Log Creek and unnamed creek (NW1/4, SW1/4 Sec.31, T20N, R13E) downstream to mouth on Cabin Creek (Sec.19, T20N, R13E).
(9) Manastash Creek	Yakima (AMS) Ellensburg 15 Ellensburg S. 7 1/2	From confluence of North and South Forks Manastash Creek (Sec.17, T17N, R17E) downstream to mouth on Yakima River (Sec.4, T17N, R18E).
(10) Manastash Creek (South Fork)	Cle Elum 15 Ellensburg 15 Manastash Lake 7 1/2	From the Wenatchee National Forest boundary (Sec.31, T18N, R16E) downstream to mouth at Manastash Creek (Sec.17, T17N, R17E).
(11) Swauk Creek	Thorp 15	From the Wenatchee National Forest boundary (Sec.10, T20N, R17E) downstream (excluding all federal lands) to mouth at Yakima River (Sec.20, T19N, R17E).
(12) Taneum Creek	Cle Elum 15 Thorp 7 1/2	From Wenatchee National Forest boundary (Sec.30, T19N, R16E) downstream (excluding all federal lands) to mouth on Yakima River (Sec.33, T19N, R17E).
(13) Teanaway River*	Mt. Stuart* 15 Cle Elum 15	From the confluence of the Middle Fork and the West Fork Teanaway River (Sec.6, T20N, R16E) downstream to Yakima River (Sec.3, T19N, R16E). The 200 cfs MAF point begins at confluence of West Fork & North Fork Teanaway River (Sec.6, T20N, R16E).

Stream Name	Quadrangle Name and Size	Legal Description
(14) Teanaway River (M. Fk.)	Mt. Stuart 15	From the Wenatchee National Forest boundary (Sec.15, T21N, R15E) downstream to mouth at Teanaway River (Sec.6, T20N, R16E).
(15) Teanaway River (N. Fk.)	Mt. Stuart 15	From the Wenatchee National Forest boundary (Sec.4, T21N, R16E) downstream (excluding all federal lands) to the Teanaway River (Sec.6, T20N, R16E).
(16) Teanaway River (W. Fk.)	Kachess Lake 15 Mt. Stuart 15	From the Wenatchee National Forest boundary (Sec.30, T21N, R15E) downstream (excluding all federal lands) to the Teanaway River (Sec.6, T20N, R16E).
(17) Wilson Creek*	Ellensburg So.* 7 1/2 Kittitas 7 1/2	From mouth at Naneum Creek (Sec.30, T17N, R19E) downstream to mouth on Yakima River (Sec.31, T17N, R19E). This stream has over 300 sq. miles of drainage area ending at mouth of Cherry Creek (Sec.31, T17N, R19E).
(18) Yakima River*	Snoqualmie Pass* 15 Kachess 15 Easton 15 Cle Elum 15 Thorp 7 1/2 Ellensburg North 7 1/2 Ellensburg South 7 1/2 Wymer 7 1/2 Pamona 7 1/2 Kittitas 7 1/2	From the Wenatchee National Forest boundary (Sec.15, T21N, R12E) downstream (excluding all federal lands) to the Yakima Co. line (Sec.33, T15N, R19E). The stream flow exceeds 200 cfs MAF at Wenatchee National Forest boundary.
(19) Little Naches River*	Lester 15 Easton 15* Cliffdell 7 1/2	From confluence of North Fork & Middle Fork of Little Naches River (Sec.31, T19N, R12E) downstream left bank to mouth of Naches River (Sec.4, T17N, R14E). Exclude federal lands. The 200 cfs MAF point begins at confluence with Crow Creek (Sec.30, T18N, R14E).

[Order DE 77-15, § 173-18-230, filed 9/1/77; Order DE 76-14, § 173-18-230, filed 5/3/76; Order 73-14, § 173-18-230, filed 8/27/73; Order DE 72-13, § 173-18-230, filed 6/30/72.]

WAC 173-18-240 Klickitat County. Streams

Stream Name	Quadrangle Name and Size	Legal Description
(1) Bowman Creek	Klickitat 15	From the confluence of Bowman Creek and unnamed creek (Sec.35, T5N, R14E) downstream to mouth at Little Klickitat River (Sec.10, T4N, R14E).
(2) Buck Creek	Willard 15	From the confluence of Buck Creek and unnamed creek (Sec.16, T4N, R10E) downstream to Skamania County line (Sec.35, same township).
(3) Columbia River (Cont.)*		All Columbia River within Klickitat County is under federal jurisdiction. Stream flow exceeds 200 cfs MAF.
(4) Dead Canyon Creek	Klickitat 15	From the confluence of Dead Canyon Creek and unnamed creek (Sec.2, T5N, R13E) downstream to mouth at Klickitat River (Sec.12, same township).
(5) Gilmer Creek	Husum 15 Willard 15	From the confluence of Gilmer Creek and Hangman Creek (Sec.1, T4N, R10E) downstream to mouth at White Salmon River (Sec.2, T4N, R10E).
(6) Klickitat River*	Mt. Adams 30 Klickitat* 15 The Dalles 15 White Salmon 15	From Yakima Indian Reservation (Sec.24, T6N, R13E) downstream to mouth on Columbia River (Sec.34, T3N, R12E). The stream flow exceeds 200 cfs MAF at Yakima Co. line.
(7) Little Klickitat River (E. Prong)	Satus Pass 15 Goldendale 15 Klickitat 15	From the confluence of Little Klickitat River, E. Prong and Dry Creek (Sec.10, T5N, R17E) downstream to mouth at Klickitat River (Sec.9, T4N, R14E).
(8) Major Creek	Husum 15 White Salmon 15	From the confluence of Major Creek, East Fork and West Fork (Sec.12, T3N, R11E) downstream to mouth at Columbia River (Sec.31, T3N, R12E).
(9) Mill Creek	Goldendale 15 Klickitat 15	From the confluence of Mill Creek and unnamed creek (Sec.13, T4N, R14E) downstream to mouth at Little Klickitat River (Sec.14, same township).
(10) Rattlesnake Creek	Husum 15	From the confluence of Rattlesnake Creek and unnamed creek (Sec.29, T5N, R12E) downstream to mouth at White Salmon River (Sec.30, T4N, R11E).

Stream Name		Quadrangle Name and Size	Legal Description
(11)	Rock Creek	Satus Pass 15 Goodnoe Hills 7 1/2 The Dalles AMS (1:250,000)	From the confluence of Rock Creek and Luna Gulch (Sec.23, T4N, R18E) downstream to mouth at Columbia River (Sec.32, T3N, R19E).
(12)	Snyder Canyon Creek	Klickitat 15	From an approximate point (NW1/4 of NE1/4 Sec.16, T4N, R13E) downstream to mouth at Klickitat River (Sec.23, T4N, R13E).
(13)	Swale Creek	Wishram 15 The Dalles 15 Klickitat 15	From the north section line (Sec.30, T3N, R15E) downstream to the mouth at Klickitat River (Sec.18, T4N, R14E).
(14)	Trout Lake Creek*	Steamboat Mt. 30 Willard* 15	From the Skamania County line (Sec.6, T6N, R10E) downstream through Trout Lake to mouth at White Salmon River (Sec.24, same township). The flow at the Skamania County-Gifford Pinchot National Forest boundary exceeds 200 cfs MAF.
(15)	White Salmon River*	Steamboat Mt. 30 Willard* 15 Husum 15	Beginning at National Forest boundary (Sec.3, T6N, R10E) downstream to mouth at Columbia River (Sec.23, T3N, R10E) excluding that part of west bank within Skamania County. The flow at Gifford Pinchot National Forest boundary exceeds 200 cfs MAF.

[Order DE 76-14, § 173-18-240, filed 5/3/76; Order 73-14, § 173-18-240, filed 8/27/73; Order DE 72-13, § 173-18-240, filed 6/30/72.]

WAC 173-18-250 Lewis County. Streams

	Stream Name	Quadrangle Name and Size	Legal Description
(1)	Big Creek	Randle 15 Mineral 15	From confluence of Big Creek and Tealey Creek (Sec.4, T14N, R7E) downstream to mouth at Nisqually River (Sec.34, T15N, R6E).
(2)	Brim Creek	Ryderwood 15 Castle Rock 15	From confluence of Brim Creek and North Fork at (Sec.24, T11N, R3W) downstream to mouth at Stillwater Creek (Sec.25, T11N, R3W).
(3)	Bunker Creek	Adna 15	Beginning in the (SE1/4 of NE1/4 Sec.17, T14N, R4W) downstream to mouth at Chehalis River (Sec.6, T13N, R3W).
(4)	Butter Creek	Mt. Rainier 30 Packwood 15	Beginning at Gifford Pinchot National Forest boundary at (Sec.3, T13N, R9E) downstream to mouth at Cowlitz River (Sec.10 of same township).
(5)	Catt Creek	Mt. Rainier 30 Mineral 15 Randle 15	Beginning at Snoqualmie National Forest boundary (Sec.13, T14N, R6E) downstream to mouth at Big Creek (Sec.2, T14N, R6E).
(6)	Cedar Creek	Toutle 15	From confluence of Cedar Creek and unnamed Creek (Sec.11, T11N, R1E) downstream to Salmon Creek (Sec.36, T11N, R1W).
(7)	Chehalis River*	Skamokawa 15 Pe Ell 15 Adna* 15 Centralia 15 Rochester 15	From confluence of East Fork,West Fork and Chehalis River at (Sec.10, T11N, R5W) downstream to Lewis Co. and Thurston Co. line (Sec.26, T15N, R3W). The 1,000 cfs MAF point begins at mouth of South Fork Chehalis River (Sec.13, T13N, R4W).
(8)	Chehalis River (E. Fk.)	Skamokawa 15	From confluence of Chehalis River East Fork and unnamed creek (Sec.27, T11N, R5W) downstream to mouth at confluence of West Fork Chehalis River and Chehalis River (Sec.10, T11N, R5W).
(9)	Chehalis River (W. Fk.)	Skamokawa 15	From confluence of Chehalis River West Fork and unnamed creek (Sec.20, T11N, R5W) downstream to mouth at confluence of East Fork and Chehalis River (Sec.10, T11N, R5W).
(10)	Chehalis River (S. Fk.) (Cont.)	Ryderwood 15 Adna 15	Beginning where the Chehalis River South Fork crosses the Lewis Co. and Cowlitz Co. line (Sec.2, T10N, R4W) downstream to mouth at Chehalis River (Sec.13, T13N, R4W).
(11)	Cinnabar Creek	Onalaska 15	Beginning at (NW1/4 of SW1/4 Sec.13, T13N, R2E) downstream to mouth at Tilton River (Sec.26, T13N, R2E).
(12)	Cispus River*	Steamboat Mt. 30 Spirit Lake 15 Greenhorn Buttes 7 1/2 Tower Rock* 7 1/2	Beginning in the Gifford Pinchot National Forest (Sec.18, T11N, R8E) downstream to the mouth at Cowlitz River (Sec.31, T12N, R6E). The 1,000 cfs MAF point is at Gifford Pinchot National Forest boundary. Exclude federal lands.
(13)	Coal Creek	Mt. Rainier 30 Packwood 15	Beginning at Gifford Pinchot National Forest boundary at east section line (Sec.1, T13N, R9E) downstream to mouth at Cowlitz River (same section).

	Stream Name	Quadrangle Name and Size	Legal Description
(14)	Connelly Creek	Morton 15	Beginning at confluence with Heller Creek (Sec.23, T13N, R4E) downstream to mouth at Tilton River (Sec.35, of same township).
(15)	Cowlitz River	Mt. Rainier 30 Randle 15 Mineral 15 Spirit Lake 15 Packwood* 15 Greenhorn Butte 7 1/2 Elk Rock 15 Morton 15 Onalaska 15 Toutle 15 Castle Rock 15	Starting at the Gifford Pinchot National Forest boundary (Sec.1, T13N, R9E) downstream to Cowlitz Co. line (Sec.33, T11N, R2W). The 1,000 cfs MAF point is at Gifford Pinchot N.F. boundary.
(16)	Crim Creek	Pe Ell 15	From confluence of Crim Creek and unnamed creek (Sec.19, T12N, R5W) downstream to mouth at Chehalis River (Sec.10, same township).
(17)	Davis Creek	Mt. Rainier 30	Beginning at Gifford Pinchot National Forest boundary north section line (Sec.16, T12N, R8E) downstream to mouth at Cowlitz River (Sec.17, of same township).
(18)	Deep Creek	Adna 15	From confluence of Deep Creek and Tapp Creek (Sec.24, T14N, R4W) downstream to mouth at Bunker Creek (Sec.6, T13N, R3W).
(19)	Deschutes River	Morton 15 Ohop Valley 15	From confluence of West Fork and Deschutes River (Sec.1, T14N,R3E) downstream to Lewis Co. and Thurston Co. line (Sec.24, T15N, R3E).
(20)	Devils Creek	Elk Rock 15 Toutle 15	Starting at (NW1/4 of NW1/4 Sec.31, T11N, R3E) downstream to Lewis Co. and Cowlitz Co. line at SW corner (Sec.36, T11N, R2E).
(21)	Dillenbaugh Creek	Centralia 15	From confluence of Dillenbaugh Creek and Berwick Creek (Sec.9, T13N, R2W) downstream to mouth at Chehalis River (Sec.31, T14N, R2W).
(22)	East Creek	Mineral 15 Kapowsin 15	Beginning at approximately the 1/4 corner on west section line (Sec.6, T14N, R5E) the Snoqualmie National Forest boundary, downstream to mouth at Alder Reservoir (Sec.29, T15N, R5E).
(23)	Eight Creek (Cont.)	Pe Ell 15	Beginning at a point on Pacific Co. and Lewis Co. line (Sec.7, T13N, R5W) downstream to mouth at Elk Creek (Sec.8, T13N, R5W).
(24)	Elk Creek (Cont.)	Pe Ell 15	Beginning at a point on Lewis Co. and Pacific Co. line SW corner (Sec.6, T13N, R5W) downstream to mouth at Chehalis River (Sec.3 of same township).
(25)	Elk Creek	Elk Rock 15	From confluence of Elk Creek and unnamed creek (Sec.27, T11N, R4E) downstream to mouth at Green River (Sec.32, T11N, R4E).
(26)	Gallup Creek	Mineral 15	From confluence of Gallup Creek and unnamed creek (Sec.1, T13N, R5E) downstream to mouth at Mineral Creek (Sec.25, T14N, R5E).
(27)	Garrard Creek (South Fork)	Malone 15	From confluence of Garrard Creek South Fork and unnamed creek (Sec.16, T15N, R5W) downstream to Grays Harbor Co. line (Sec.9, same township).
(28)	Green River (Cont.)	Spirit Lake 15 Elk Rock 15	From south line (Sec.33, T11N, R4E) Lewis-Skamania County line downstream to Lewis-Skamania County line (Sec.31, same township) downstream to Lewis-Cowlitz County line (Sec.31, T11N, R4E).
(29)	Halfway Creek	Adna 15	From confluence of Halfway Creek and unnamed creek (Sec.9, T12N, R4W) downstream to mouth at Stillman Creek (Sec.14, same township).
(30)	Hall Creek	Mt. Rainier 30 Packwood 15	From the North Sec. line (Sec.27, T13N, R9E) downstream to mouth at Cowlitz River (Sec.33, same township) (exclude all federal land).
(31)	Hanaford Creek	Onalaska 15 Tenino SW 7 1/2 Centralia 15 Bucoda 7 1/2	Beginning at (NE1/4 of NW1/4 Sec.5, T14N, R1E) downstream to mouth at Skookumchuck River (Sec.33, T15N, R2W).
(32)	Hanlan Creek	Ryderwood 15	From confluence of Hanlan Creek and unnamed creek (Sec.34, T11N, R4W) downstream to mouth at Chehalis River (Sec.35, of same township).
(33)	Independence Creek	Rochester 15	From confluence of Independence Creek and unnamed creek (Sec.29, T15N, R4W) downstream to Grays Harbor Co. line (Sec.15, T15N, R4W).
(34)	Johnson Creek	Mt. Rainier 30 Packwood 15	Beginning where Johnson Creek crosses Gifford Pinchot National Forest boundary (Sec.32, T13N, R9E) downstream to mouth at Cowlitz River (same section).

	Stream Name	Quadrangle Name and Size	Legal Description
(35)	Jones Creek	Pe Ell 15	From confluence of Jones Creek and Katula Creek (Sec.23, T13N, R5W) downstream to mouth at Chehalis River (same section).
(36)	Kearney Creek	Onalaska 15	From confluence of Kearney Creek and Door Creek (Sec.18, T13N, R2E) downstream to mouth at Newaukum River South Fork (Sec.13, T13N, R1E).
(37)	King Creek	Centralia 15 Castle Rock 15	From confluence of King Creek and unnamed creek (Sec.29, T12N, R2W) downstream to mouth at Olequa Creek (Sec.28, same township).
(38)	Kiona Creek	Mineral 15 Randle 15	Beginning at Gifford Pinchot National Forest boundary (Sec.4, T12N, R6E) downstream to mouth at Cowlitz River (Sec.20, T12N, R7E).
(39)	Klickitat Creek	Onalaska 15	From confluence of Klickitat Creek and unnamed creek (Sec.14, T12N, R2E) downstream to mouth at Mayfield Lake (Sec.10, same township).
(40)	Lacamas Creek	Centralia 15 Castle Rock 15	From confluence of Lacamas Creek and Baker Creek (Sec.15, T12N, R1W) downstream to mouth at Cowlitz River (Sec.27, T11N, R2W).
(41)	Lake Creek	Adna 15	Beginning at (SE1/4 of NW1/4 Sec.21, T12N, R3W) downstream to mouth at Chehalis River South Fork (Sec.30, T13N, R3W).
(42)	Lake Creek	Mineral 15	Beginning at outlet on Anderson Lake (Sec.15, T14N, R6E) downstream to mouth at Catt Creek (Sec.2, T14N, R6E).
(43)	Lake Creek	Mt. Rainier 30 Packwood 15	Beginning at Gifford Pinchot National Forest boundary at west section line (Sec.12, T13N, R9E) downstream to mouth at Cowlitz River (Sec.11, same township).
(44)	Landers Creek	Spirit Lake 15	From an approximate point in center of (SE1/4 Sec.7, T11N, R5E) downstream to mouth on Davisson Lake (Sec.7, T11N, R5E).
(45)	Lincoln Creek	Adna 15 Rochester 15	From confluence of North Fork, South Fork of Lincoln Creek and Lincoln Creek (Sec.5, T14N, R4W) downstream to mouth at Chehalis River (Sec.35, T15N, R3W).
(46)	Lincoln Creek (N. Fork)	Adna 15	Beginning at the (NW1/4 of NE1/4 Sec.6, T14N, R4W) downstream to mouth Lincoln Creek (Sec.5, same township).
(47)	Lincoln Creek (S. Fork)	Adna 15	From confluence of Lincoln Creek South Fork and Wildcat Creek (Sec.7, T14N, R4W) downstream to mouth at Lincoln Creek (Sec.5, same township).
(48)	Lost Creek	Adna 15	From confluence of Lost Creek and unnamed creek north section line (Sec.10, T12N, R4W) downstream to mouth at Stillman Creek (Sec.2 of same township).
(49)	Lucas Creek	Onalaska 15 Centralia 15	From confluence of Lucas Creek and unnamed creek (Sec.5, T13N, R1E) downstream to mouth at Newaukum River North Fork (Sec.2, T13N, R1W).
(50)	Mill Creek	Onalaska 15	Beginning at the (NW1/4 of SW1/4 Sec.28, T13N, R2E) downstream to mouth at Cowlitz River (Sec.23, T12N, R1E).
(51)	Mineral Creek	Mineral 15	From confluence of Mineral Creek and unnamed creek (Sec.9, T13N, R6E) downstream to mouth at Nisqually River (Sec.26, T15N, R5E).
(52)	Mineral Creek (N. Fk.)	Mineral 15	Beginning at the (NW1/4 of SW1/4 Sec.35, T14N, R6E) downstream to mouth at Mineral Creek (Sec.10, T14N, R5E).
(53)	Newaukum River (M. Fk.)	Centralia 15	From confluence of Newaukum River Middle Fork and unnamed creek (NE of other unnamed creek) (Sec.22, T13N, R1W) downstream to mouth at North Fork Newaukum River (Sec.20 of same township).
(54)	Newaukum River (N. Fk.)	Onalaska 15	From confluence of Newaukum River North Fork and unnamed creek (Sec.13, T14N, R1E) downstream to mouth at Newaukum River (Sec.18, T13N, R1W).
(55)	Newaukum River (S. Fk.)	Onalaska 15	Beginning at the (NE1/4 of SE1/4 Sec.27, T14N, R2E) downstream to mouth at Newaukum River (Sec.19, T13N, R1W) downstream through Newaukum River to mouth at Chehalis River (Sec.31, T14N, R2W).

	Stream Name	Quadrangle Name and Size	Legal Description
(56)	Nisqually River*	Randle 15 Kapowsin* 15 Mount Wow 7 1/2 Mineral 15	Beginning at the Snoqualmie National Forest boundary left (south) bank only (Sec.33, T15N, R7E) downstream through Alder Reservoir to Lewis Co., Pierce Co., and Thurston Co. lines in the Reservoir (Sec.29, T15N, R5E). The 1,000 cfs MAF point begins at mouth of Mineral Creek (Sec.26, T15N, R5E).
(57)	Olequa Creek	Centralia 15 Castle Rock 15	From confluence of Olequa Creek and unnamed creek closest to GN, NP, UP Railroad track (Sec.21, T12N, R2W) downstream to Lewis Co. and Cowlitz Co. line (Sec.32, T11N, R2W).
(58)	Quartz Creek	Spirit Lake 15	From the National Forest boundary (Sec.10, T11N, R6E) downstream to mouth on Cispus River (same section).
(59)	Rainy Creek	Mineral 15 Spirit Lake 15	From confluence of Rainy Creek and unnamed creek (Sec.8, T12N, R6E) downstream to mouth at Davisson Lake (Sec.27, T12N, R5E).
(60)	Rock Creek	Pe Ell 15	Beginning at a point approximately at the 1/4 corner (Sec.1, T12N, R6W) on Pacific Co. and Lewis Co. line downstream to mouth at Chehalis River (Sec.33, T13N, R5W).
(61)	Roger Creek	Skamokawa 15 Pe Ell 15	From confluence of Little Roger Creek, Big Roger Creek and Roger Creek (Sec.27, T12N, R5W) downstream to mouth at Chehalis River (Sec.22, T12N, R5W).
(62)	Roundtop Creek	Mineral 15	From confluence of Roundtop Creek and unnamed creek (Sec.20, T14N, R5E) downstream to mouth at Mineral Creek (Sec.3, same township).
(63)	Salmon Creek	Toutle 15 Castle Rock 15	From confluence of Salmon Creek and Rapid Creek (Sec.17, T11N, R2E) downstream to Lewis Co. and Cowlitz Co. line, excluding Salmon Creek on Cowlitz Co. side (Sec.34, T11N, R1W) downstream to mouth at Cowlitz River (Sec.19, T11N, R1W).
(64)	Salzer Creek	Centralia 15	From the confluence of Salzer Creek and unnamed creek (Sec.23, T14N, R2W) downstream to Chehalis River (Sec.18, T14N, R2W).
(65)	Shelton Creek	Morton 15 Elk Rock 15	From confluence of Shelton Creek and unnamed creek (Sec.27, T12N, R4E) downstream to mouth at Davisson Lake (Sec.27, same township).
(66)	Siler Creek	Mt. Rainier 30 Randle 15	From confluence of Siler Creek and unnamed creek (Sec.27, T12N, R7E) downstream to mouth at Cowlitz River (Sec.20, same township) exclude federal land.
(67)	Silver Creek	Randle 15	From confluence of Silver Creek and Lynx Creek (Sec.22, T13N, R7E) downstream to Cowlitz River (Sec.15, T12N, R7E). Exclude federal lands.
(68)	Skate Creek	Mt. Rainier 30 Packwood 15	From the Gifford Pinchot National Forest boundary at SE corner (Sec.8, T13N, R9E) downstream to mouth at Cowlitz River (Sec.21, same township).
(69)	Skookumchuck River	Morton 15 Onalaska 15 Lake Lawrence 7 1/2 Tenino SW 7 1/2 Centralia 15	From confluence of Bigwater Creek and Skookumchuck River (Sec.7, T14N, R3E) downstream excluding federal lands to Lewis Co. and Thurston Co. thence downstream (Sec.28, T15N, R2W) to mouth (Sec.7, T14N, R2W).
(70)	Smith Creek	Mt. Rainier 30 Packwood 15	From the Gifford Pinchot National Forest boundary (Sec.5, T12N, R9E) downstream to Cowlitz River (Sec.32, T13N, R9E).
(71)	South Hanaford Creek	Centralia 15 Tenino S.W. 7 1/2	Beginning at the (NE1/4 of NE1/4 Sec.12, T14N, R2W) downstream to mouth at Hanaford Creek (Sec.26, T15N, R2W).
(72)	Stearns Creek	Centralia 15 Adna 15	From confluence of Stearns Creek and unnamed creek (Sec.32, T13N, R2W) downstream to mouth at Chehalis River (Sec.2, T13N, R3W).
(73)	Stillman Creek	Ryderwood 15 Adna 15	From confluence of Stillman Creek and unnamed creek (Sec.14, T11N, R4W) downstream to mouth at Chehalis River South Fork (Sec.2, T12N, R4W).
(74)	Stillwater Creek (Cont.)	Ryderwood 15 Castle Rock 15	From Lewis Co. and Cowlitz Co. line south section line (Sec.34, T11N, R3W) downstream to mouth at Olequa Creek (Sec.32, T11N, R2W).
(75)	Stowe Creek	Pe Ell 15	From confluence of Stowe Creek and Sand Creek (Sec.35, T13N, R5W) downstream to mouth at Chehalis River (Sec.34, same township).
(76)	Thrash Creek	Skamokawa 15	Beginning at (SE1/4 of NE1/4 Sec.31, T12N, R5W) downstream to mouth at Chehalis River (Sec.33, same township).

	Stream Name	Quadrangle Name and Size	Legal Description
(77)	Tilton River	Mineral 15 Onalaska 15 Morton 15	Beginning at the closest point on Tilton River to center of (Sec.5, T13N, R5E) downstream to mouth at Mayfield Lake (Sec.26, T13N, R2E).
(78)	Tilton River (E. Fk.)	Mineral 15	From confluence of Tilton River East Fork and unnamed creek (NW1/4 Sec.19, T13N, R6E) downstream to mouth at Tilton River South Fork, on downstream to Tilton River (Sec.25, T13N, R4E).
(79)	Tilton River (N. Fk.)	Morton 15	From north section line Forest boundary (Sec.3, T13N, R3E) downstream to mouth at Tilton River (Sec.30, T13N, R4E). Exclude federal lands.
(80)	Tilton River (S. Fk.)	Mineral 15	Beginning in (NE1/4 of NE1/4 Sec.32, T13N, R5E) downstream to confluence point with East Fork Tilton River, on downstream to mouth at Tilton River (Sec.25, T13N, R4E).
(81)	Tilton River (W. Fk.)	Mineral 15	From confluence of Trout Creek and Tilton River (W. Fk.) (Sec.2, T13N, R4E) downstream to mouth at Tilton River (Sec.19, T13N, R5E).
(82)	Unnamed Trib. to Newaukum River (S. Fk.)	Onalaska 15	From confluence of unnamed creek and unnamed creek (Sec.27, T14N, R2E) downstream to mouth at Newaukum River South Fork (same section).
(83)	Unnamed Trib. to Stillman Creek	Ryderwood 15	From confluence of unnamed creek and unnamed creek (Sec.9, T11N, R4W) downstream to mouth at Stillman Creek (Sec.34, T12N, R4W).
(84)	Willame Creek	Mt. Rainier 30 Packwood 15	From Gifford Pinchot National Forest boundary (Sec.31, T13N, R9E) downstream to Cowlitz River (Sec.6, T12N, R9E).
(85)	Winston Creek	Elk Rock 15 Onalaska 15 Toutle 15	From confluence of Winston Creek and Thurston Creek (Sec.11, T11N, R3E) downstream to mouth at Mayfield Lake (Sec.20, T12N, R2E).
(86)	Winston Creek (S. Fk.)	Elk Rock 15	From confluence of Winston Creek South Fork and unnamed creek (Sec.9, T11N, R3E) downstream to mouth at Winston Creek (Sec.36, T12N, R2E).
(87)	Little Nisqually River	Morton 15	From confluence of Hiawatha Creek and Little Nisqually River (Sec.9, T14N, R4E) downstream to Lewis-Thurston County line (Sec.28, T15N, R4E). Exclude federal lands.

[Order DE 76-14, § 173-18-250, filed 5/3/76; Order 73-14, § 173-18-250, filed 8/27/73; Order DE 72-13, § 173-18-250, filed 6/30/72.]

WAC 173-18-260 Lincoln County. Streams

	Stream Name	Quadrangle Name and Size	Legal Description
(1)	Columbia River (cont.)*		All of Columbia River within Lincoln County (Franklin D. Roosevelt Lake) is under federal jurisdiction. The stream flow is over 200 cfs MAF.
(2)	Crab Creek*	Sprague Lake NE 7 1/2 Sprague Lake 7 1/2 Sprague Lake SW 7 1/2 Harrington SE 7 1/2 Lamona WA 7 1/2 U.S.G.S. Blue Line Advance Sylvan Lake 7 1/2 Odessa 7 1/2 Irby 7 1/2 Marlin SW 7 1/2 Marlin 7 1/2	From the confluence of Rock Creek and Crab Creek (Sec.18, T22N, R38E) downstream through Sylvan Lake to Grant County line (Sec.18, T22N, R31E). This stream has over 300 sq. miles of drainage area down to mouth (right bank only) at unnamed tributary (Sec.34, T22N, R37E).
(3)	Negro Creek	Sprague 15	From the confluence of Negro Creek and unnamed creek in the town of Sprague (Sec.23, T21N, R38E) downstream to mouth at Sprague Lake (Sec.21, same township).
(4)	Spokane River*	Wellpinit* 15 Turtle Lake 15 Lincoln 15	From the Spokane County line (Sec.24, T27N, R39E) starting on left bank of Long Lake (SE corner of same section) thence downstream along left bank of Long Lake to Spokane River, thence downstream on left bank to (Sec.27, T27N, R38E). This stream has both over 200 cfs MAF flow and over 300 sq. miles of drainage area at Spokane County line.
(5)	Wilson Creek*	Almira* 7 1/2 Almira SW 7 1/2	From mouth of Corbett Draw (Sec.16, T25N, R31E) downstream to Grant County line (Sec.6, T24N, R31E). This stream has over 300 sq. miles of drainage area ending at mouth of Corbett Draw.

[Order 73-14, § 173-18-260, filed 8/27/73; Order DE 72-13, § 173-18-260, filed 6/30/72.]

WAC 173-18-270 Mason County. Streams

Stream Name	Quadrangle Name and Size	Legal Description
(1) Baker Creek	Mt. Tebo 15	Beginning at Olympic National Forest boundary, at center of (Sec.10, T21N, R6W) downstream to mouth at Satsop River Middle Fork (Sec.16, same township). Exclude federal land.
(2) Bingham Creek	Mt. Tebo 15 Elma 15	Beginning at (SW1/4 of NE1/4 Sec.31, T21N, R5W) downstream to mouth at East Fork Satsop River (Sec.11, T19N, R6W).
(3) Canyon River	Mt. Tebo 15 Grisdale 15	Beginning at Olympic National Forest boundary at north section line (Sec.18, T21N, R6W) downstream to Mason County, Grays Harbor County line (same section).
(4) Cloquallum Creek	Elma 15	From a point near intersection of a road and Cloquallum Creek (Sec.14, T19N, R5W) downstream to Grays Harbor County line (Sec.36, T19N, R6W).
(5) Coulter Creek	Belfair 7 1/2	From the confluence of Coulter Creek and unnamed creek (Sec.9, T22N, R1W) downstream to mouth of North Bay (same section).
(6) Cranberry Creek	Potlatch 15	Beginning at NE point of Cranberry Lake (Sec.28, T21N, R3W) downstream to mouth at Oakland Bay (Sec.35 of same township).
(7) Decker Creek	Elma 15	Beginning at (NW1/4 of SE1/4 Sec.18, T20N, R6W) downstream to (Sec.19, T20N, R6W) and Grays Harbor County, Mason County line returning to Mason County line at (Sec.30, T20N, R6W) on downstream to mouth at Satsop River East Fork (Sec.31, T19N, R6W).
(8) Deer Creek	Mason Lake 7 1/2 Potlatch 15	From confluence of Deer Creek and unnamed creek (SW1/4 of SE1/4 Sec.19, T21N, R2W) downstream to mouth on Oakland Bay (Sec.36, T21N, R3W).
(9) Dewatto River	Holly 7 1/2 Lake Wooten 7 1/2 Potlatch 15	From a point approximately 1000' north of section line in (SE1/4 of Sec.6, T23N, R2W) downstream to mouth at Dewatto Bay on Hood Canal (Sec.28, T23N, R3W).
(10) Dry Bed Creek	Mt. Tebo 15 Elma 15	Beginning where Dry Bed Creek crosses the Beeville Loop Road at (Sec.27, T21N, R6W) downstream to mouth at Decker Creek (Sec.5, T19N, R6W).
(11) Dry Creek	Mt. Tebo 15	Beginning where Dry Creek crosses unimproved road at center of (Sec.35, T21N, R6W) downstream to mouth at Dry Bed Creek (Sec.3, T20N, R6W).
(12) Dry Run Creek	Elma 15	Beginning at (NE1/4 of NW1/4) at South Bend Creek (Sec.27, T19N, R6W) downstream to mouth at Satsop River East Fork (Sec.28 of same township).
(13) Golsborough Creek (S. Fork)	Elma 15 Shelton 15	From confluence of Golsborough Creek South Fork and unnamed creek (Sec.25, T20N, R5W) downstream to mouth at Oakland Bay (Sec.20, T20N, R3W).
(14) Gosnell Creek	Shelton 15 Olympia 15 Squaxin Island 7 1/2	From confluence of Gosnell Creek and unnamed creek (Sec.10, T19N, R4W) downstream through Isabella Lake to mouth at Hammersley Inlet of Puget Sound (Sec.25, T20N, R3W).
(15) Hamma Hamma River	The Brothers 15	Beginning where the Hamma Hamma River crosses the Olympic National Forest boundary (Sec.7, T24N, R3W) downstream to mouth at Hood Canal of Puget Sound (Sec.27 of same township).
(16) Jefferson Creek	The Brothers 15	Beginning where Jefferson Creek crosses the Olympic National Forest boundary at NW corner (Sec.18, T24N, R3W) downstream to mouth at Hamma Hamma River (Sec.8 of same township) (excluding federal Lands).
(17) Johns Creek	Potlatch 15 Shelton 15	Beginning where Johns Creek crosses light-duty road (Sec.30, T21N, R3W) downstream to mouth at Oakland Bay (Sec.3, T20N, R3W).
(18) Kennedy Creek (Cont.)	Shelton 15	From the Thurston County line (Sec.31, T19N, R3W) downstream to mouth at Oyster Bay (Sec.32, T19N, R3W).

Stream Name	Quadrangle Name and Size	Legal Description
(19) Lilliwaup Creek	Potlatch 15	Beginning in the Lilliwaup Swamp (Sec.11, T23N, R4W) downstream to mouth at Lilliwaup Bay in Hood Canal at (Sec.30, T23N, R3W).
(20) McTaggert Creek	Potlatch 15	From confluence of McTaggert Creek and Frigid Creek at (Sec.30, T22N, R4W) downstream to Skokomish River North Fork (same section).
(21) Mission Creek	Lake Wotten 7 1/2 Belfair 7 1/2	From confluence of Mission Creek and unnamed creek (Sec.24, T23N, R2W) downstream to mouth at Hood Canal (Sec.1, T22N, R2W).
(22) Rendsland Creek	Potlatch 15	Beginning where Rendsland Creek crosses the north section line of (NW1/4 of SE1/4 Sec.17, T22N, R3W) downstream to mouth at Hood Canal (Sec.19 same township).
(23) Satsop River (E. Fork)	Elma 15	From the confluence of Satsop River East Fork, Phillips Creek and Stillwater Creek (Sec.22, T20N, R5W) downstream to Mason Co., Grays Harbor Co. line (Sec.31, T19N, R6W).
(24) Satsop River (M. Fork)	Mt. Tebo 15 Elma 15	From the Olympic National Forest boundary (Sec.16, T21N, R6W) downstream to Mason Co., Grays Harbor Co. line (Sec.6, T20N, R6W) reentering Mason Co. at (Sec.31, T19N, R6W) to mouth at Satsop River East Fork.
(25) Shumocher Creek	Potlatch 15 Mason Lake 7 1/2	From confluence of Shumocher Creek and unnamed creek (Sec.13, T21N, R3W) downstream to mouth at Mason Lake (Sec.7, T21N, R2W).
(26) Skokomish River*	Potlatch* 15	From confluence of North Fork of Skokomish River and South Fork Skokomish River (Sec.18, T21N, R4W) downstream to mouth in Great Bend on Hood Canal (Sec.6, T21N, R3W) excluding portion on left bank within Skokomish Indian Reservation. The 1,000 cfs MAF flow begins at confluence of N. Fork and S. Fork.
(27) Skokomish River (N. Fork)	Potlatch 15	From confluence of Skokomish R. N. Fork and Frigid Cr. (Sec.30, T22N, R4W) downstream to confluence with South Fork Skokomish R. (Sec.18, T21N, R4W).
(28) Skokomish River (S. Fork)	Mt. Tebo 15 Potlatch 15	From the Olympic National Forest boundary (Sec.15, T22N, R5W) downstream to confluence with North Fork Skokomish River (Sec.18, T21N, R4W). Exclude federal lands.
(29) Skookum Creek	Shelton 15	From confluence of Skookum Creek and unnamed creek (Sec.27, T19N, R4W) downstream to mouth at Skookum Inlet in Puget Sound (Sec.17, T19N, R3W).
(30) Tahuya River (Cont.)	Wildcat Lake 7 1/2 Holly 7 1/2 Lake Wooten 7 1/2 Potlatch 15	From the Kitsap Co. line (Sec.36, T24N, R2W) downstream to mouth at Hood Canal near Tahuya (Sec.27, T22N, R3W).
(31) Union River (Cont.)	Belfair 7 1/2	From the Kitsap Co. line (Sec.10, T23N, R1W) downstream to mouth of Lynch Cove near Belfair (Sec.31, T23N, R1W).
(32) Unnamed Creek	Mt. Tebo 15 Elma 15	Beginning where logging railroad crosses unnamed creek (Sec.4, T20N, R5W) downstream to mouth at Nahwatzel Lake (Sec.5, same township).
(33) Vance Creek	Mt. Tebo 15	From the Olympic National Forest boundary NW corner of (Sec.4, T21N, R5W) downstream to mouth on Skokomish River (Sec.18, T21N, R4W).
(34) Goldsborough Creek (N. Fork)	Shelton 15	From confluence of Winter Creek and Goldsborough Cr.N. Fk. (Sec.9, T20N, R4W) downstream to mouth at Goldsborough Cr. S. Fk. (Sec.19 same township).
(35) Sherwood Creek	Mason Lake 7 1/2 Vaughn 7 1/2 Belfair 7 1/2	From its start in Mason Lake (Sec.34, T22N, R2W) downstream to mouth at North Bay on Case Inlet (Sec.20, T22N, R1W).

[Order 73-14, § 173-18-270, filed 8/27/73; Order DE 72-13, § 173-18-270, filed 6/30/72.]

WAC 173-18-280 Okanogan County. Streams

Stream Name	Quadrangle Name and Size	Legal Description
(1) Beaver Creek	Blue Buck Mt. 7 1/2 Twisp East 7 1/2	From the confluence of Beaver Creek and unnamed creek (NE1/4 of NE1/4 Sec.26, T34N, R22E) downstream to mouth at Methow River (Sec.27, T33N, R22E).

Stream Name		Quadrangle Name and Size	Legal Description
(2)	Bonaparte Creek	Tonasket 15	From the confluence of Bonaparte Creek and Bannon Creek (Sec.32, T37N, R28E) downstream to mouth on Okanogan River near Tonasket (Sec.16, T37N, R27E).
(3)	Chewack *River	Doe Mt.* 15 Winthrop 7 1/2	From the Okanogan National Forest boundary (Sec.2, T35N, R21E) downstream to mouth at Methow River (Sec.2, T34N, R21E). The flow exceeds 200 cfs MAF at Okanogan N.F. boundary.
(4)	Columbia River (Cont.)*	Grand Coulee Dam 15 Bridgeport 15 Brewster 15 Wells Dam 7 1/2 Azwell 7 1/2	From the intersection of the Okanogan County line and the Colville Indian Reservation boundary (Sec.18, T30N, R25E) downstream right bank only to Chelan County line (Sec.31, T29N, R24E). The flow exceeds 200 cfs MAF at the Colville Indian Reservation boundary.
(5)	Early Winters Creek	Mazama 15	From the Okanogan National Forest boundary line (Sec.23, T29N, R19E) downstream to mouth at Methow River (Sec.27, same township).
(6)	Gold Creek	Concrete AMS Methow 7 1/2	From the confluence of Gold Creek and South Fork Gold Creek (Sec.17, T31N, R22E) downstream to mouth at Methow River (Sec.16, same township).
(7)	Methow River*	Mazama 15* Brewster 15 Doe Mtn. 15 Thompson Ridge 15 7 1/2 Winthrop 7 1/2 Blue Buck Mtn. 7 1/2 Twisp East 7 1/2 Methow 7 1/2 Cooper Mtn. 7 1/2	From the Okanogan National Forest boundary (Sec.6, T36N, R19E) downstream to mouth at the Columbia River (Sec.36, T30N, R23E) excluding all federal lands. The stream flow is 200 cfs MAF at confluence of Methow River and Lost River (Sec.5, T37N, R19E).
(8)	Myers Creek	Mt. Bonaparte 15	From the confluence of Myers Creek and Mary Ann Creek (Sec.28, T40N, R30E) downstream to the Canadian Border (Sec.3, same township).
(9)	Okanogan River*	Oroville* 15 Tonasket 15 Omak Lake 15 Okanogan 15 Bridgeport 15 Conconully 15	From the United States-Canadian Border crossing Osoyoos Lake (Sec.4&5, T40N, R27E) downstream on both shores to Colville Indian Reservation (Sec.6, T34N, R27E) the west shore only to mouth at Columbia River (Sec.18, T30N, R25E), excluding all federal lands. This stream has over 200 cfs MAF and over 300 sq. miles of drainage area at United States-Canadian Border.
(10)	Sanpoil River (W. Fk.)	Aeneas Valley 15 Aeneas 15	From the confluence of West Fork Sanpoil River and Frosty Creek (Sec.12, T35N, R30E) to the Okanogan National Forest boundary (Sec.22, T35N, R31E).
(11)	Similkameen River*	Loomis* 15 Oroville 15	From the Canadian Border (Sec.4, T40N, R25E) downstream to mouth at Okanogan River (Sec.9, T39N, R27E) excluding all federal lands. This stream has over 200 cfs MAF and over 300 sq. miles of drainage at Canadian Border.
(12)	Sinlahekin River (Creek)	Conconully 15 Loomis 15	From the confluence on the Sarsapkin Creek and Sinlahekin Creek (Sec.10, T37N, R25E) downstream to mouth at Palmer Lake (Sec.13, T39N, R25E).
(13)	Toats Coulee Creek	Horseshoe Basin 15 Loomis 15	From the confluence of South and Middle Fork Toats Coulee Creek (Sec.35, T39N, R24E) downstream to mouth at Sinlahekin Creek (Sec.35, T39N, R25E).
(14)	Toroda Creek	Bodie Mt. 15	From the confluence of Beaver Creek and Toroda Creek (Sec.22, T39N, R31E) downstream to the Ferry County line (Sec.25, T40N, R31E) excluding federal lands.
(15)	Twisp River*	Concrete AMS Winthrop* 7 1/2 Twisp West 7 1/2 Twisp East 7 1/2	From the Okanogan National Forest boundary (Sec.10, T33N, R21E) downstream to mouth at Methow River (Sec.8, T33N, R22E). The flow exceeds 200 cfs MAF at Okanogan N.F. boundary.

Stream Name	Quadrangle Name and Size	Legal Description
(16) Wolf Creek	Concrete AMS Thompson Ridge 7 1/2 Winthrop 7 1/2	From the Okanogan National Forest boundary (Sec.6, T34N, R21E) downstream to mouth at Methow River (Sec.32, T35N, R21E).

[Statutory Authority: RCW 90.58.120 and 90.58.200. 88-03-070 (Order DE 87-45), § 173-18-280, filed 1/20/88. Statutory Authority: RCW 90.58.030, 90.58.120 and 90.58.300. 87-20-050 (Order DE 87-35), § 173-18-280, filed 10/2/87; Order DE 77-15, § 173-18-280, filed 9/1/77; Order DE 76-14, § 173-18-280, filed 5/3/76; Order 73-14, § 173-18-280, filed 8/27/73; Order DE 72-13, § 173-18-280, filed 6/30/72.]

WAC 173-18-290 Pacific County. Streams

Stream Name	Quadrangle Name and Size	Legal Description
(1) Alder Creek	Grays River 15 Upper Naselle River 7 1/2	From the confluence of Alder Creek and unnamed creek (NW1/4 Sec.35, T12N, R8W) downstream to the mouth at Naselle River (Sec.16, T11N, R8W).
(2) Bear River	Knappton 7 1/2 Chinook 7 1/2	From confluence of Bear Branch and unnamed creek (S1/2 of Sec.36, T10N, R10W) downstream to mouth in Shoalwater Bay (Sec.7, same township).
(3) Blaney Creek	Skamokawa 15	From the confluence of Blaney Creek and unnamed creek (Sec.32, T11N, R6W) downstream to mouth at Grays River (Sec.31, same township).
(4) Bone River	South Bend 7 1/2 Bay Center 7 1/2	Beginning at a point (SW 1/4 of NW 1/4 Sec. 36 T14N, R10W) downstream to mouth at Willapa Bay (Sec. 4, T13N, R10W).
(5) Butte Creek	Raymond 15	From the confluence of Butte Creek and unnamed creek (Sec.32, T15N, R8W) downstream to mouth at Smith Creek (Sec.31, same township).
(6) Canon River	South Bend 15 North Nemah 7 1/2 Nemah 7 1/2	From confluence of Canon River and unnamed creek (Sec.5, T12N, R9W) downstream to mouth at Middle Fork of Palix River (Sec.24, T13N, R10W).
(7) Canyon Creek	South Bend 15 North Nemah 7 1/2	From the confluence of Canyon Creek and unnamed creek (Sec.29, T13N, R9W) downstream to mouth at Canon River (Sec.32, same township).
(8) Cedar River	Western 7 1/2 Bay Center 7 1/2	From confluence of North Fork Cedar River and Cedar River (Sec.25, T15N, R11W) downstream to mouth at Willapa Bay (Sec.6, T14N, R10W).
(9) Cedar River (N. Fork)	Grayland 7 1/2 Western 7 1/2	From confluence of North Fork Cedar River and unnamed creek (NW1/4, NE1/4 Sec.26, T15N, R11W) downstream to mouth at Cedar River (Sec.25, same township).
(10) Chinook River	Chinook 7 1/2	From a point approximately 1000' south of northern section line (Sec.8, T9N, R10W) downstream to mouth in Baker Bay of Columbia River (Sec.31, T10N, R10W).
(11) Clearwater Creek	South Bend 15 South Bend 7 1/2 Aberdeen S.E. 7 1/2	Beginning at a point where Clearwater Creek crosses the unimproved dirt road near north section line (Sec.35, T15N, R9W) downstream to mouth at Smith Creek (Sec.26, same township).
(12) Columbia River (Cont.)*	Grays River 15 Roseburg 7 1/2 Knappton 7 1/2 Astoria 7 1/2 Warrenton 7 1/2 Chinook 7 1/2 Cape Disappointment 7 1/2	From the Wahkiakum County line on the Columbia River (Sec.1, T9N, R9W) downstream along the Washington-Oregon boundary to mouth on Pacific Ocean (Sec.18, T9N, R11W). This stream exceeds 1,000 cfs MAF at Wahkiakum Co. line.
(13) Dell Creek	Knappton 7 1/2	From the confluence of Dell Creek and unnamed creek (Sec.7, T10N, R9W) downstream to mouth on Naselle River (Sec.8, same township).
(14) Eight Creek	Pe Ell 15	From confluence of Eight Creek and unnamed creek (Sec.11, T13N, R6W) downstream to Lewis County line (Sec.12, same township).
(15) Elk Creek	Pe Ell 15	From confluence of Elk Creek and unnamed creek (Sec.29, T14N, R6W) downstream to Lewis County line (Sec.1, T13N, R6W).
(16) Elk Creek	Raymond 15	From confluence of Elk Creek and unnamed creek (Sec.17, T14N, R8W) downstream to mouth at Willapa River (Sec.19, same township).
(17) Elkhorn Creek (Cont.)	Montesano 15 Aberdeen SE 7 1/2	From Grays Harbor County line (Sec.15, T15N, R8W) downstream to mouth at Smith Creek (Sec.26, T15N, R9W).
(18) Ellis Creek	Grays River 15 Raymond 15	Beginning at a point (SW1/4 of NE1/4 Sec.28, T12N, R7W) downstream to mouth at Fork Creek (Sec.16, same township).
(19) Fairchild Creek	Raymond 15	From mouth of North Fork Fairchild Creek (Sec.24, T14N, R8W) downstream to mouth at Ward Creek (Sec.14, same township).
(20) Fairchild Creek (North Fork)	Raymond 15	From confluence of Fairchild Creek N.Fk. and unnamed creek (Sec.8, T14N, R7W) downstream to mouth at Fairchild Creek (Sec.24, T14N, R8W).
(21) Ellsworth Creek	Long Island 7 1/2	From confluence of Ellsworth Cr. and unnamed creek (SE1/4 of SW1/4 Sec.35, T11N, R10W) downstream to mouth on Naselle River (Sec.22 same township).

Stream Name	Quadrangle Name and Size	Legal Description
(22) Fall River	Pe Ell 15 Raymond 15 Montesano 15	From confluence of Fall River and unnamed creek (Sec.2, T14N, R6W) downstream to mouth at (Sec.24, T15N, R7W).
(23) Falls Creek	Pe Ell 15 Raymond 15	From confluence of Falls Creek and unnamed creek (Sec.24, T12N, R7W) downstream to mouth at Willapa River (Sec.11, same township).
(24) Fern Creek	Pe Ell 15 Raymond 15	Beginning at a point (NW1/4 of SW1/4 Sec.6, T12N, R6W) downstream to mouth at Willapa River (Sec.3, T12N, R7W).
(25) Finn Creek	Oman Ranch 7 1/2	From confluence of Finn Creek and unnamed creek (NE1/4 Sec.29, T12N, R9W) downstream to mouth on North Nemah River (Sec.30, same township).
(26) Fork Creek	Raymond 15	Beginning at a point (SW1/4 of SE1/4 Sec.15, T12N, R7W) downstream to mouth at Willapa River (Sec.6, T12N, R7W).
(27) Grays River (East Fork)	Skamokawa 15	From confluence of Grays River East Fork and unnamed creek (Sec.14, T11N, R6W) downstream to mouth at Grays River (Sec.17, same township).
(28) Grays River (S. Frk.) (Cont.)	Skamokawa 15	From Wahkiakum Co. line (Sec.32, T11N, R6W) downstream to mouth on Grays River East Fork (Sec.31, same township).
(29) Hull Creek	Grays River 15	From confluence of Hull Creek and unnamed tributary (Sec.30, T11N, R7W) downstream to Wahkiakum County line (Sec.32, same township).
(30) Half Moon Creek	Raymond 15	Beginning at a point (SW1/4 of SE1/4 Sec.26, T13N, R7W) downstream to mouth at Willapa River (Sec.4, T12N, R7W).
(31) Johnson Creek	Skamokawa 15	From the confluence of Johnson Creek and unnamed creek (Sec.6, T11N, R6W) downstream to mouth at Grays River (Sec.7, same township).
(32) Little Elk Creek	Pe Ell 15	Beginning at a point (SE1/4 of Sec.5, T13N, R6W) downstream to mouth at Elk Creek (Sec.33, T14N, R6W).
(33) Lower Salmon Creek (Cont.)	Aberdeen S.E. 7 1/2	From Grays Harbor County line (Sec.14, T15N, R9W) downstream back to said county line (Sec.15 same township).
(34) Middle Nemah River	Oman Ranch 7 1/2 Long Island 7 1/2 Nemah 7 1/2	From confluence of Middle Nemah River and unnamed creek (SW1/4, NE1/4 Sec.9, T11N, R9W) downstream to mouth at South Nemah River (Sec.27, T12N, R10W).
(35) Mill Creek	Raymond 15	From confluence of Mill Creek and unnamed creek (Sec.11, T13N, R7W) downstream to mouth at Willapa River (Sec.2, T13N, R8W).
(36) Mitchell Creek	Skamokawa 15	From the confluence of Mitchell Creek and unnamed creek (Sec.8, T11N, R6W) downstream to mouth at Grays River East Fork (Sec.17, same township).
(37) Naselle River	Grays River 15 Up. Naselle River 7 1/2 Roseburg 7 1/2 Knappton 7 1/2 Oman Ranch 7 1/2 Long Island 7 1/2	From a point on east section line (Sec.36, T12N, R8W) downstream thru Chetlo Harbor and Stanley Channel to Willapa Bay (Sec.31, T12N, R10W) excluding those reaches within Wahkiakum County.
(38) Naselle River (South Fork)	Knappton 7 1/2	From confluence of Naselle River S. Fork and Bean Creek (Sec.33, T10N, R9W) downstream to mouth at Naselle River (Sec.9, same township).
(39) Niawiakum River	South Bend 15 Bay Center 7 1/2 Nemah 7 1/2	Beginning at a point near the section center (Sec.14, T13N, R10W) downstream to mouth at Palix River (Sec.9, same township).
(40) North River*	Malone 15 Montesano 15 Aberdeen S.E.* 7 1/2 Western 7 1/2 Bay Center 7 1/2	From confluence of Redfield Creek and Wheeler Creek (Sec.22, T15N, R6W) downstream to mouth on Willapa Bay (Sec.35, T15N, R10W) excluding those reaches within Grays Harbor County. The 1,000 cfs MAF point begins at mouth of Lower Salmon Creek (Sec.7, T15N, R9W).
(41) North Fork Naselle River	Raymond 15 Upper Naselle Riv. 7 1/2	From confluence of North Naselle River and unnamed creek (Sec.19, T12N, R8W) downstream to mouth at Naselle River (Sec.17, T11N, R8W).
(42) North Nemah River	Grays River 15 North Nemah 7 1/2 Up. Naselle River 7 1/2 Nemah 7 1/2 Oman Ranch 7 1/2	From the confluence of North Nemah River and unnamed creek (Sec.11, T11N, R9W) downstream to mouth at Willapa Bay (Sec.22, T12N, R10W).
(43) Palix River	Nemah 7 1/2 Bay Center 7 1/2	From confluence of South and North Forks of Palix River (Sec.22, T13N, R10W) downstream to mouth on Willapa Bay (Sec.5, same township).
(44) Palix River (North Fork)	South Bend 15 South Bend 7 1/2 North Nemah 7 1/2 Nemah 7 1/2	Beginning at a point (SE1/4 of NW1/4 Sec.7, T13N, R9W) downstream to mouth on Palix River (Sec.22, T13N, R10W).
(45) Palix River (South Fork)	South Bend 15 Nemah 7 1/2	Beginning at a point (NE1/4 of NW1/4 Sec.35, T13N, R10W) downstream to mouth on Palix River (Sec.22, same township).

Stream Name	Quadrangle Name and Size	Legal Description
(46) Rainie Creek (Cont.)	Malone 15	From Grays Harbor County line (Sec.16, T15N, R6W) downstream to mouth on North River (Sec.20, same township).
(47) Redfield Creek	Malone 15	From confluence of Redfield Creek and Wheeler Creek (Sec.22, T15N, R6W) downstream to mouth at confluence of Redfield Creek and North River (Sec.21, same township).
(48) Rock Creek	Pe Ell 15	From confluence of Rock Creek and unnamed right bank tributary (Sec.2, T12N, R6W) downstream to Lewis County line (Sec.1, same township).
(49) Rue Creek	Raymond 15	From confluence of Rue Creek with the Middle and West Forks of Rue Creek (Sec.15, T13N, R8W) downstream to mouth at So. Fork Willapa River (Sec.8, same township).
(50) Salmon Creek	Grays River 15 Up. Naselle River 7 1/2 Roseburg 7 1/2 Knappton 7 1/2	From the confluence of Salmon Creek and unnamed creek (Sec.26, T11N, R8W) downstream to mouth at Naselle River (Sec.10, T10N, R9W) excluding those reaches within Wahkiakum County.
(51) Smith Creek	Montesano 15 Raymond 15 Aberdeen S.E. 7 1/2 Bay Center 7 1/2	From the east section (Sec.18, T15N, R7W) downstream to mouth at North River (Sec.35, T15N, R10W).
(52) Smith Creek	Oman Ranch 7 1/2	From confluence of Smith Creek and unnamed creek (SE1/4,SE1/4 Sec.26, T11N, R10W) downstream to mouth on Naselle River (Sec.24, same township).
(53) S. Nemah River	Long Island 7 1/2 Nemah 7 1/2	From confluence of South Nemah River and unnamed creek (NW1/4 Sec.2, T11N, R10W) downstream to mouth in Willapa Bay (Sec.22, T12N, R10W).
(54) Swem Creek	Pe Ell 15	Beginning at a point (SW1/4 of NE1/4 Sec.26, T14N, R6W) downstream to mouth at Elk Creek (Sec.34, same township).
(55) Trap Creek	Raymond 15	From confluence of Trap Creek and unnamed creek (Sec.9, T12N, R8W) downstream to Willapa River (Sec.1, same township).
(56) Unnamed Tributary to Canon River	South Bend 15 North Nemah 7 1/2	From a point (NW1/4 of NW1/4 Sec.33, T13N, R9W) downstream to mouth at Canon River (Sec.32, same township).
(57) Unnamed Tributary to Grays River	Skamokawa 15	From confluence of the unnamed tributary and unnamed creek (Sec.32, T12N, R6W) downstream to mouth at Grays River (Sec.5, T11N, R6W).
(58) Unnamed Tributary to Hull Creek	Grays River 15	From a point (SE1/4 of SW1/4 Sec.30, T11N, R7W) downstream to mouth on Hull Creek (Sec.32, same township).
(59) Unnamed Tributary to Palix River (N. Fork)	South Bend 15 North Nemah 7 1/2	From confluence of the unnamed tributary and other unnamed tributary (Sec.8, T13N, R9W) downstream to mouth at Palix River North Fork (Sec.18, same township).
(60) Unnamed Tributary to Smith Creek	Montesano 15	From confluence of unnamed tributary and another unnamed tributary (Sec.25, T15N, R8W) downstream to mouth at Smith Creek (Sec.26, same township).
(61) Wallacut River	Cape Disappointment 7 1/2	From the confluence of Wallacut River and unnamed creek (SW1/4 Sec.26, T10N, R11W) downstream to mouth at Baker Bay (Sec.34, same township).
(62) Ward Creek	Raymond 15	From a point (NW1/4 of SE1/4 Sec.2, T14N, R8W) downstream to mouth at Willapa River (Sec.27, same township).
(63) W.F. Grays River	Grays River 15	From confluence of West Fork Grays River and unnamed creek (Sec.16, T11N, R7W) downstream to Wahkiakum County line (Sec.33, same township).
(64) Whitcomb Creek	Raymond 15	From a point (SW1/4 of NE1/4 Sec.35, T14N, R8W) downstream to mouth at Ward Creek (Sec.27, same township).
(65) Willapa River*	Pe Ell 15 Raymond* 15 South Bend 7 1/2	From confluence of Willapa River and unnamed creek (Sec.8, T12N, R6W) downstream to mouth at Willapa Bay (Sec.18, T14N, R9W). The streamflow is 1,000 cfs MAF at mouth of South Frk. Willapa River (Sec.24, T14N, R9W).
(66) Willapa River (S. Fork)	South Bend 15 North Nemah 7 1/2	From an approximate point (NW1/4 Sec.2, T12N, R9W) downstream to mouth at Willapa River (Sec.24, T14N, R9W).
(67) Williams Creek	South Bend 15 Nemah 7 1/2 North Nemah 7 1/2	From an approximate point (SW1/4 of Sec.15, T12N, R9W) downstream to mouth at North Nemah River (Sec.14, T12N, R10W).
(68) Wilson Creek	Raymond 15	From the east section line (Sec.27, T14N, R7W) downstream to mouth at Ward Creek (Sec.22, T14N, R8W).
(69) Wilson Creek (North Fork)	Raymond 15	From confluence of Wilson Creek North Fork and unnamed creek (Sec.20, T14N, R7W) downstream to mouth at Wilson Creek (Sec.30, same township).

[Order DE 77-15, § 173-18-290, filed 9/1/77; Order DE 76-14, § 173-18-290, filed 5/3/76; Order 73-14, § 173-18-290, filed 8/27/73; Order DE 72-13, § 173-18-290, filed 6/30/72.]

WAC 173-18-300 Pend Oreille County. Streams

Stream Name		Quadrangle Name and Size	Legal Description
(1)	Calispell Creek	Newport 30 Cusick 7 1/2	From the confluence of North and South Forks of Calispell Creek (Sec.34, T32N, R43E) downstream thru Calispell Lake to mouth on Pend Oreille River (Sec.19, T33N, R44E).
(2)	CalispellCreek (N.Frk.)	Newport 30 Sacheen Lake 7 1/2 Cusick 7 1/2	From the north section line (Sec.28, T32N, R43E) downstream thru Power Lake to mouth on Calispell Creek (Sec.34, same township).
(3)	Le Clerc Creek	Metaline 30 Ruby 7 1/2	From the confluence of West Branch of Le Clerc Creek and the East Branch of Le Clerc Creek (Sec.17, T35N, R44E) downstream to mouth at Pend Oreille River (Sec.20, same township).
(4)	Le Clerc Creek (W.Branch)	Metaline 30 Ruby 7 1/2	From the Kaniksu National Forest boundary (Sec.6, T35N, R44E) downstream to mouth at Le Clerc Creek (Sec.17, same township).
(5)	Le Clerc Creek (E.Branch)	Metaline 30 Ruby 7 1/2	From the Kaniksu National Forest boundary (Sec.5, T35N, R44E) downstream to mouth at Le Clerc Creek (Sec.17, same township).
(6)	Pend Oreille River*	Newport 30 Newport,Wash. —Idaho* 7 1/2 Diamond Lake 7 1/2 Skookum Creek 7 1/2 Cusick 7 1/2 Metaline 7 1/2 Metaline Falls 7 1/2 Jared 7 1/2 Ruby 7 1/2 Scotchman Lake 7 1/2 Ione 7 1/2	From the Washington-Idaho border (Sec.7, T31N, R46E) downstream (excluding all federal lands) to United States-Canadian border (Sec.3, T40N, R43E). The flow exceeds 200 cfs MAF at Washington-Idaho border and has 300 square miles of drainage area.
(7)	Little Spokane River	Newport 7 1/2 Diamond Lake 7 1/2 Camden 7 1/2	From an approximate point (NE1/4 of SW1/4 of NW1/4 of Sec.34, T31N, R45E) downstream thru Chain Lake and to the Spokane County line (Sec.34, T30N, R44E).
(8)	Little Spokane River (W.Branch)	Newport 30	Flowing from Sacheen Lake (Sec.35, T31N, R43E) downstream thru Trout Lake, downstream thru Horseshoe Lake, downstream to Spokane County line.
(9)	Skookum Creek	Newport 30 Skookum Creek 7 1/2	From the confluence of Skookum Creek and N. Fork Skookum Creek (Sec.34, T33N, R44E) downstream to mouth at Pend Oreille River (Sec.4, T32N, R44E).
(10)	Sullivan Creek*	Metaline* 30	From the Colville National Forest boundary (Sec.22, T39N, R43E) downstream to mouth at Pend Oreille River (Sec.23, same township). The flow exceeds 200 cfs MAF at Colville National Forest boundary.
(11)	Tacoma Creek	Newport 30 Jared 7 1/2	From an approximate point (NW1/4 of NW1/4 of Sec.27, T34N, R43E) downstream (excluding all federal lands) to mouth at Pend Oreille River (Sec.30, T34N, R44E).

[Order 73-14, § 173-18-300, filed 8/27/73; Order DE 72-13, § 173-18-300, filed 6/30/72.]

WAC 173-18-310 Pierce County. Streams

Stream Name		Quadrangle Name and Size	Legal Description
(1)	Beaver Creek	Kapowsin 15	From an approximate point near the center of (Sec.35, T16N, R5E) downstream to the mouth at Mashel River (Sec.21, T16N, R5E).
(2)	Busy Wild Creek	Kapowsin 15	From the confluence of Busy Wild Creek and unnamed creek (Sec.10, T15N, R6E) downstream to mouth at Mashel River (Sec.25, T16N, R5E).
(3)	Carbon River	Mowich Lake 7 1/2 Enumclaw 15 Golden Lakes 7 1/2 Wilkeson 7 1/2 Orting 7 1/2 Sumner 7 1/2	From the Mount Rainier National Park boundary (Sec.35, T18N, R7E) downstream to mouth at the Puyallup River. (Sec.13, T19N, R4E).
(4)	Chambers Creek	Steilacoom 7 1/2	From outflow of Steilacoom Lake (Sec.34, T20N, R2E) downstream to mouth at Chambers Bay and Puget Sound (Sec.29, T20N, R2E).
(5)	Clarks Creek	Puyallup 7 1/2	Beginning in the (NE1/4 of the SE1/4 Sec.32, T20N, R4E), downstream to mouth at Puyallup River (Sec.15, same township).
(6)	Clearwater River	Enumclaw 15	From the Snoqualmie National Forest boundary (Sec.34, T19N, R8E) downstream to mouth at the White River (Sec.7, T19N, R8E).

Stream Name		Quadrangle Name and Size	Legal Description
(7)	Clover Creek	Tacoma South 15 Spanaway 7 1/2 Tacoma South 7 1/2 Steilacoom 7 1/2 Frederickson 7 1/2	From the intersection of Clover Creek and railroad (Sec.25, T19N, R3E) downstream to Steilacoom Lake (Sec.3, T19N, R2E). Delete federal lands.
(8)	Evans Creek	Kapowsin 15	From the east line of (Sec.11, T17N, R6E) downstream to mouth at Carbon River (Sec.35, T18N, R6E).
(9)	Gale Creek	Enumclaw 15 Wilkeson 7 1/2	From an approximate point near the center of the (NE1/4 of SW1/4 of NE1/4 of NW1/4 of Sec.13, T18N, R6E) downstream to mouth at Wilkeson Creek (Sec.34, T19N, R6E).
(10)	Greenwater River	Lester 15 Greenwater 15	From the Snoqualmie National Forest boundary (Sec.31, T19N, R11E) downstream on the left shore only to the mouth at White River (Sec.4, T19N, R9E). Exclude federal lands.
(11)	Little Mashel River	Kapowsin 15 Eatonville 7 1/2	From the confluence of the Little Mashel River and unnamed creek (Sec.30, T16N, R5E) downstream to Mashel River (Sec.22, T16N, R4E).
(12)	Lynch Creek	Kapowsin 15 Tanwax Lake 7 1/2	From an approximate point on the west line of (SE1/4 of NE1/4 of NW1/4 of Sec.17, T16N, R5E) downstream to mouth at Ohop Creek (Sec.10, T16N, R4E).
(13)	Mashel River	Kapowsin 15 Eatonville 7 1/2	From the confluence of Mashel River and unnamed creek (Sec.18, T16N, R6E) downstream to mouth at Nisqually River (Sec.29, T16N, R4E).
(14)	Milky Creek	Enumclaw 15	From an approximate point near the NW corner of the (NE1/4 of SE1/4 of NW1/4 of Sec.34, T19N, R8E) downstream to the mouth at the Clearwater River (same section).
(15)	Minter Creek	Burley 7 1/2 Fox Island 7 1/2	From the confluence of Minter Creek and Huge Creek (Sec.20, T22N, R1E) downstream to mouth at Carr Inlet (Sec.29, same township).
(16)	Mowick River	Golden Lakes 7 1/2 Kapowsin 15	From the Mount Rainier National Park boundary (Sec.33, T17N, R7E) downstream to mouth at Puyallup River (Sec.3, T16N, R6E).
(17)	Muck Creek	Fort Lewis 7 1/2	From Fort Lewis Military Reservation boundary (Sec.27, T18N, R2E) downstream through Muck Lake to same boundary (Sec.34, same township).
(18)	Niesson Creek	Kapowsin 15	From an approximate point near the NW corner of the (NE1/4 of NE1/4 of Sec.4, T16N, R6E) downstream to the Puyallup River (Sec.33, T17N, R6E).
(19)	Nisqually River*	Randle 15 Mount Wow 7 1/2 Mineral 15 Kapowsin* 15 Eatonville 7 1/2 Bald Hill 7 1/2 Harts Lake 7 1/2 McKenna 7 1/2 Nisqually 7 1/2	From Snoqualmie National Forest boundary (Sec.33, T15N, R7E) downstream along the north and east shores only, excluding all federal lands to the Fort Lewis Military Reservation (Sec.16, T17N, R2E), from Military Reservation (Sec.5, T18N, R1E) to mouth on Nisqually Reach (Sec.28, T19N, R1E). *Note: The 1,000 cfs MAF point starts at mouth of Mineral Creek (Sec.26, T15N, R5E).
(20)	Ohop Creek	Kapowsin 15 Orting 7 1/2	From the confluence of Ohop Creek and unnamed creek (Sec.21, T17N, R5E) downstream through Lake Kapowsin to mouth at Puyallup River (Sec.20, T18N, R5E).
(21)	Ohop Creek	Tanwax Lake 7 1/2 Eatonville 7 1/2	From the confluence of Twenty Five Mile Creek and Ohop Creek (Sec.26, T17N, R4E) downstream through Ohop Lake to Kapowsin Creek, thence downstream to mouth at Nisqually River (Sec.25, T16N, R3E).
*NOTE: (Exclude area from La Grande Dam downstream to power house due to use of aqueduct.)			
(22)	Puyallup River*	Mt. Rainier 30 Kapowsin 15 Orting 7 1/2 Sumner* 7 1/2 Puyallup 7 1/2 Tacoma South 7 1/2 Tacoma North 7 1/2	From the confluence of North and South Forks Puyallup River (Sec.20, T16N, R7E) downstream (excluding all federal lands) to Commencement Bay at Tacoma (Sec.33, T21N, R3E) The 1,000 cfs MAF point begins at mouth of Carbon River (Sec.13, T19N, R4E).
(23)	Rocky Creek	Vaughn 7 1/2	From the confluence of Rocky Creek and the unnamed creek (Sec.27, T22N, R1W) downstream to mouth at Rocky Bay (same section).

Stream Name		Quadrangle Name and Size	Legal Description
(24)	Rushingwater Creek	Golden Lakes 7 1/2 Kapowsin 15	From the Snoqualmie National Forest boundary (Sec.1, T16N, R6E) downstream to mouth at Mowich River (Sec.2, same township).
(25)	Sequalitchew Creek	Anderson Island 15 Fort Lewis 7 1/2 Nisqually 7 1/2	From the Fort Lewis Military Reservation (Sec.25, T19N, R1E) downstream to mouth at Nisqually Reach (Sec.22, same township).
(26)	South Creek	Ohop Valley 15 Harts Lake 7 1/2 Spanaway 7 1/2 Tanwax Lake 7 1/2	From the confluence of South Creek and unnamed creek (Sec.8, T17N, R4E) downstream to Fort Lewis Military Reservation boundary (Sec.34, T18N, R3E).
(27)	South Prairie Creek	Enumclaw 15 Wilkeson 7 1/2 Buckley 7 1/2 Sumner 7 1/2 Orting 7 1/2	From the Snoqualmie National Forest boundary (Sec.32, T19N, R7E) downstream to mouth at Carbon River (Sec.27, T19N, R5E).
(28)	Spanaway Creek	Tacoma South 15 Tacoma South 7 1/2 Spanaway 7 1/2	From the confluence of waters from Spanaway Lake (Sec.20, T19N, R3E) downstream to mouth at Clover Creek (Sec.8, same township).
(29)	Tanwax Creek	Tanwax Lake 7 1/2 Harts Lake 7 1/2 Bald Hill 7 1/2	From the confluence of Tanwax Creek and unnamed creek (Sec.31, T17N, R4E) downstream to mouth at the Nisqually River (Sec.20, T16N, R3E).
(30)	Twenty Five Mile Creek	Kapowsin 15 Tanwax Lake 7 1/2	From an approximate point near the west line of the (NE1/4 of NW1/4 of SE1/4 of Sec.25, T17N, R4E) downstream to mouth at Ohop Creek (Sec.26, same township).
(31)	Unnamed Tributary to Mashel River	Kapowsin 15	From an approximate point near the SW corner of (NE1/4 of Sec.29, T16N, R6E) downstream to mouth at Mashel River (Sec.19, same township).
(32)	Voight Creek	Kapowsin 15 Wilkeson 7 1/2 Orting 7 1/2	From the intersection of the west line of (Sec.3, T17N, R6E) and Voight Creek, downstream to mouth at Carbon River (Sec.33, T19N, R5E).
(33)	White River*	Greenwater* 15 Enumclaw 15 Enumclaw 7 1/2 Auburn 7 1/2 Sumner 7 1/2 Puyallup 7 1/2 Buckley 7 1/2	From the Snoqualmie National Forest boundary (Sec.36, T19N, R9E) downstream to the King-Pierce County line along County line on southerly shore only to the Muckleshoot Indian Reservation (Sec.2, T20N, R5E) returning from the reservation (Sec.1, T20N, R4E) downstream to mouth at Puyallup River (Sec.26, same township). The 1,000 cfs MAF point begins at mouth of Greenwater River (Sec.4, T19N, R9E).
(34)	White River (West Fork)	Greenwater 15	From the Snoqualmie National Forest boundary (Sec.33, T19N, R9E) downstream to mouth at the White River (Sec.23, same township).
(35)	Wilkeson Creek	Wilkeson 7 1/2 Buckley 7 1/2	From confluence of Wilkeson Creek and Gale Creek (Sec.34, T19N, R6E) downstream to mouth at South Prairie Creek (Sec.17, same township).
(36)	North Puyallup River	Mount Wow 7 1/2	From Mount Rainer National Park boundary (Sec.21, T16N, R7E) downstream to mouth at Puyallup River (Sec.20, T16N, R7E).
(37)	South Puyallup River	Mount Wow 7 1/2	From Mount Rainer National Park boundary (Sec.33, T16N, R7E) downstream to mouth at Puyallup River (Sec.20, T16N, R7E).

[Order DE 76-14, § 173-18-310, filed 5/3/76; Order 73-14, § 173-18-310, filed 8/27/73; Order DE 72-13, § 173-18-310, filed 6/30/72.]

WAC 173-18-320 San Juan County. Streams. San Juan County has no 20 cfs streams but has shorelines. No rivers of statewide significance.

[Order 73-14, § 173-18-320, filed 8/27/73; Order DE 72-13, § 173-18-320, filed 6/30/72.]

WAC 173-18-330 Skagit County. Streams

Stream Name		Quadrangle Name and Size	Legal Description
(1)	Alder Creek	Hamilton 15	From confluence of Alder Creek and unnamed creek (Sec.6, T35N, R7E) downstream to mouth at Skagit River (Sec.18, same township).

Stream Name		Quadrangle Name and Size	Legal Description
(2)	Baker River*	Lake Shannon* 15	Beginning at Mt. Baker National Forest boundary in Lake Shannon (Sec.1, T36N, R8E) down through Lake Shannon and Baker Dam to mouth at Skagit River (Sec.11, T35N, R8E). The 1,000 cfs MAF begins at Mt. Baker National Forest boundary.
(3)	Bear Creek	Clear Lake 15	From confluence of Bear Creek and unnamed creek (Sec.18, T33N, R6E) downstream to mouth at Pilchuck Creek (Sec.17, same township).
(4)	Bear Creek	Hamilton 15	From confluence of Bear Creek and unnamed creek (Sec.10, T36N, R8E) downstream to mouth at Lake Shannon (Sec.14, same township).
(5)	Big Creek	Prairie Mt. 7 1/2	Beginning at Mt. Baker National Forest boundary (Sec.18, T33N, R11E) downstream to mouth at Suiattle River (Sec.13, same township).
(6)	Boulder Creek	Snowking Mt. 7 1/2 Marblemount 15	From an approximate point (NW1/4 of NW1/4 of SW1/4 Sec.26, T35N, R11E) downstream to mouth at Cascade River (Sec.15, same township).
(7)	Carpenter Creek	Mt. Vernon 15 Conway 7 1/2	From confluence of Carpenter Creek and unnamed creek (Sec.17, T33N, R4E) downstream to mouth at Tom Moore Slough (Sec.30, same township).
(8)	Cascade River*	Marblemount* 15	From Mt. Baker National Forest boundary (Sec.12, T35N, R11E) downstream to mouth at Skagit River (Sec.18, same township). The 1,000 cfs MAF point begins at mouth of Boulder Creek (Sec.15, T35N, R11E).
(9)	Cavanaugh Creek	Wickersham 15	From an approximate point (NW1/4 of NE1/4 of SE1/4 Sec.5, T36N, R6E) downstream to mouth at Nooksack River (Sec.2, T36N, R5E).
(10)	Corkindale Creek	Marblemount 15	From confluence of Corkindale Creek and unnamed creek near west section line (Sec.14, T35N, R10E) downstream to mouth at Skagit River (Sec.22, same township).
(11)	Cumberland Creek	Oso 15 Hamilton 15	From confluence of Cumberland Creek and unnamed creek (Sec.25, T35N, R6E) downstream to mouth at Skagit River (Sec.14, same township).
(12)	Day Creek	Oso 15 Clear Lake 7 1/2	Beginning at outlet of Day Lake (Sec.25, T34N, R6E) downstream to mouth at Skagit River (Sec.20, T35N, R6E).
(13)	Deer Creek	Oso 15	From the Mt. Baker National Forest boundary (Sec.1, T33N, R7E) downstream to Snohomish County line (Sec.32, same township).
(14)	Finney Creek	Finney Peak 7 1/2 Lake Shannon 15 Hamilton 15	From the Mt. Baker National Forest boundary (Sec.1, T34N, R8E) downstream to mouth at Skagit River (Sec.13, T35N, R7E).
(15)	Friday Creek (Cont.)	Samish Lake 15 Alger 7 1/2 Lake Whatcom 7 1/2	From Whatcom County line (Sec.1, T36N, R3E) downstream to mouth at Samish River (Sec.5, T35N, R4E).
(16)	Gilligan Creek	Clear Lake 15	From confluence of Gilligan Creek and unnamed creek (Sec.11, T34N, R5E) downstream to mouth at Skagit River (Sec.35, T35N, R5E).
(17)	Grandy Creek	Hamilton 15	From outlet of Grandy Lake (Sec.31, T36N, R8E) downstream to mouth at Skagit River (Sec.15, T35N, R7E).
(18)	Hansen Creek	Wickersham 15	From an approximate point (SW1/4 of SW1/4 Sec.17, T35N, R5E) downstream to mouth at Skagit River (Sec.20, same township).
(19)	Howard Creek (Cont.)	Hamilton 15	From Whatcom County line (Sec.2, T36N, R6E) downstream to mouth at Nooksack River South Fork (Sec.13, same township).
(20)	Illabot Creek	Illabot Peaks 7 1/2 Rockport 7 1/2	From Mt. Baker National Forest boundary (Sec.1, T34N, R10E) downstream to mouth at Skagit River (Sec.29, T35N, R10E).
(21)	Irene Creek	Marblemount 15	From Mt. Baker National Forest boundary (Sec.13, T35N, R11E) downstream to mouth at Cascade River (Sec.12, same township).

Stream Name		Quadrangle Name and Size	Legal Description
(22)	Jackman Creek	Lake Shannon 15	From Mt. Baker National Forest boundary (Sec.3, T35N, R9E) downstream to mouth at Skagit River (Sec.13, T35N, R8E).
(23)	Joe Leary Creek	Samish Lake 15 Bow 7 1/2	From confluence of Joe Leary Creek and unnamed Creek (Sec.20, T35N, R3E) downstream to mouth at Padilla Bay (Sec.18, same township).
(24)	Jones Creek	Wickersham 15	From an approximate point (SE1/4 of SE1/4 of NE1/4 Sec.32, T36N, R6E) downstream to mouth at Skagit River (Sec.17, T35N, R6E).
(25)	Jordan Creek	Illabot Peaks 7 1/2	Beginning at Mt. Baker National Forest boundary (Sec.33, T35N, R11E) downstream to mouth at Cascade River (Sec.18, same township).
(26)	Lake Creek	Clear Lake 15 Mt. Vernon 7 1/2	From confluence of Lake Creek and unnamed creek (Sec.17, T33N, R5E) downstream through Big Lake and Nookachamps Creek to the mouth at Nookachamps Creek in Skagit River (Sec.4, T34N, R4E).
(27)	Lake Creek	Clear Lake 15	From outlet of Lake Cavanaugh (Sec.22, T33N, R6E) downstream to mouth at Pilchuck Creek (Sec.17, same township).
(28)	Little Deer Creek	Oso 15	From Mt. Baker National Forest boundary (Sec.35, T34N, R7E) downstream to mouth at Deer Creek (same section).
(29)	Mill Creek	Hamilton 15	From an approximate point (SW1/4 of SW1/4 of SW1/4 Sec.23, T35N, R7E) downstream to mouth at Skagit River (Sec.22, same township).
(30)	Nookachamps Creek (E. Fk.)	Clear Lake 15 Mt. Vernon 7 1/2	From confluence of Nookachamps Creek East Fork and unnamed creek (Sec.28, T34N, R5E) downstream to mouth at Nookachamps Creek (Sec.10, T34N, R4E).
(31)	Nooksack River (S. Fk.)	Hamilton 15 Wickersham 15	Beginning at Mt. Baker National Forest boundary (Sec.10, T36N, R7E) downstream to Skagit County line (Sec.2, T36N, R5E).
(32)	O'Toole Creek	Oso 15	Beginning at Mt. Baker National Forest boundary (Sec.28, T35N, R7E) downstream to mouth at Skagit River (Sec.21, same township).
(33)	Pilchuck Creek	Clear Lake 15	From confluence of Pilchuck Creek and unnamed creek (Sec.10, T33N, R6E) downstream to Skagit County and Snohomish County line (Sec.33, T33N, R5E).
(34)	Pressentin Creek	Oso 15 Hamilton 15	Beginning at Mt. Baker National Forest boundary (Sec.36, T35N, R7E) downstream to mouth at Skagit River (Sec.13, same township).
(35)	Rocky Creek	Clear Lake 15	From confluence of Rocky Creek and unnamed creek (Sec.17, T34N, R6E) downstream to mouth at Day Creek (Sec.10, same township).
(36)	Rocky Creek	Lake Shannon 15	From Whatcom County line (Sec.1, T36N, R8E) downstream to Skagit County line (same section).
(37)	Rocky Creek	Marblemount 15	Beginning at Mt. Baker National Forest boundary (Sec.22, T35N, R10E) downstream to mouth at Skagit River (same section).
(38)	Samish River (Cont.)	Wickersham 15	From Whatcom County line (Sec.6, T36N, R5E) downstream to mouth at Samish Bay (Sec.5, T35N, R3E).
(39)	Sauk River (Cont.)*	Darrington* 7 1/2 Rockport 7 1/2	From Snohomish County line (Sec.32, T33N, R10E) downstream to mouth at Skagit River (Sec.35, T35N, R9E). The flow exceeds 1,000 cfs MAF at Snohomish County line.
(40)	Silver Creek	Samish Lake 15 Alger 7 1/2	Beginning where heavy duty highway crosses Silver Creek (Sec.7, T36N, R4E) downstream to mouth at Friday Creek (Sec.18, same township).

Stream Name		Quadrangle Name and Size	Legal Description
(41)	Skagit River*	Marblemount* 15 Lake Shannon 15 Hamilton 15 Wickersham 15 Clear Lake 15 Illabot Peaks 7 1/2 Rockport 7 1/2 Finney Peak 7 1/2 Mount Vernon 7 1/2 Utsalady 7 1/2 Conway 7 1/2	Beginning at Mt. Baker National Forest boundary (Sec.1, T36N, R11E) downstream splitting into the North Fork and the South Fork, on down to mouth at Skagit Bay (Sec.7, T33N, R2E) and (Sec.36, T33N, R3E). The 1,000 cfs MAF point begins at Mt. Baker N.F. boundary.
(42)	Stillaguamish River (N. Fork)	Fortson 7 1/2	From Mt. Baker National Forest boundary (Sec.27, T33N, R9E) downstream to Skagit County and Snohomish County line (Sec.34, same township).
(43)	Suiattle River* (Cont.)	Prairie Mt.* 7 1/2 Darrington 7 1/2	From Skagit-Snohomish County line (Sec.32, T33N, R11E) downstream to mouth at Sauk River (Sec.20, T33N, R10E). This river has over 1,000 cfs MAF at Skagit-Snohomish County line.
(44)	Tenas Creek	Prairie Mt. 7 1/2	From Mt. Baker National Forest boundary (Sec.19, T33N, R11E) downstream to mouth at Suiattle River (Sec.30, same township).
(45)	Thunder Creek	Lake Shannon 15	Beginning at Mt. Baker National Forest boundary (Sec.17, T36N, R9E) downstream to mouth at Lake Shannon (Sec.24, T36N, R8E).
(46)	Thunder Creek (S. Fk.)	Lake Shannon 15	From an approximate point (NW1/4 of SE1/4 of NE1/4 Sec.20, T36N, R9E) downstream to mouth at Thunder Creek (Sec.18, same township).
(47)	Unnamed Tributary to Bear Creek	Lake Shannon 15	From confluence of unnamed tributary to Bear Creek and unnamed creek (Sec.10, T36N, R8E) downstream to mouth at Bear Creek (same section).
(48)	Walker Creek	Clear Lake 15	From an approximate point (SW1/4 of SW1/4 of NE1/4 Sec.5, T33N, R5E) downstream to mouth at Nookachamps Creek East Fork (Sec.30, T34N, R5E).
(49)	White Creek	Rockport 7 1/2	From confluence of White Creek and unnamed creek (Sec.20, T34N, R10E) downstream to mouth at Sauk River (Sec.31, same township).
(50)	Youngs Slough	Wickersham 15	From confluence of Youngs Slough and unnamed tributary (Sec.14, T35N, R5E) downstream to mouth at Skagit River (Sec.27, same township).
(51)	Bacon Creek	Marblemount 15	From west section line (Sec.8, T36N, R11E) downstream to mouth at Skagit River (Sec.20, T36N, R11E). Exclude federal lands.
(52)	Diobsud Creek	Marblemount 15	From west section line (Sec.30, T36N, R11E) downstream to mouth at Skagit River (Sec.32, T36N, R11E). Exclude federal lands.

[Order DE 76-14, § 173-18-330, filed 5/3/76; Order 73-14, § 173-18-330, filed 8/27/73; Order DE 72-13, § 173-18-330, filed 6/30/72.]

WAC 173-18-340 Skamania County. Streams

Stream Name		Quadrangle Name and Size	Legal Description
(1)	Bear Creek	Wind River 15	From the Gifford Pinchot National Forest boundary (Sec.5, T3N, R8E) downstream to mouth at Wind River (Sec.8, same township).
(2)	Buck Creek (Cont.)	Willard 7 1/2	From Klickitat County line (Sec.2, T3N, R10E) downstream to mouth at White Salmon River (same section).
(3)	Canyon Creek	Bridal Veil 15	Beginning in (NW1/4 of SE1/4 Sec.4, T1N, R5E) downstream to Washougal River (Sec.6, same township).
(4)	Columbia River (Cont.)*	Hood River 15 Bonneville Dam 15 Bridal Veil 15	From Klickitat County line (Sec.23, T3N, R10E) downstream along Washington shoreline to Clark County line (Sec.19, T1N, R5E) excluding any federal lands. The flow exceeds 200 cfs MAF at Klickitat County line.
(5)	Deer Creek	Bridal Veil 15	From an approximate point (NE1/4 of Sec.17, T3N, R6E) downstream to mouth at Prospector Creek (Sec.18, same township).
(6)	Dougan Creek	Bridal Veil 15	From the confluence of Dougan Creek and unnamed creek (Sec.2, T2N, R5E) downstream to Washougal River (Sec.11, same township).

Stream Name		Quadrangle Name and Size	Legal Description
(7)	Duncan Creek	Bridal Veil 15	Beginning in (NW1/4 of SE1/4of NE1/4 of Sec.17, T2N, R6E) downstream to Columbia River (Sec.34, same township).
(8)	Forest Creek	Wind River 15 Bonneville Dam 15	From the Gifford Pinchot National Forest boundary (Sec.17, T3N, R7E) downstream to mouth at Rock Creek (same section).
(9)	Greenleaf Creek	Bonneville Dam 15	From an approximate point (NW1/4 of Sec.16, T2N, R7E) downstream through Greenleaf Slough to mouth at Hamilton Creek (Sec.20, same township).
(10)	Hagen Creek (Cont.)	Bridal Veil 15	From the Clark County line (Sec.6, T2N, R5E) downstream to mouth at the West Fork Washougal River (same section).
(11)	Hamilton Creek	Bridal Veil 15	From the confluence of Hamilton Creek and unnamed creek (Sec.36, T3N, R6E) downstream to Columbia River (Sec.30, T2N, R7E).
(12)	Lava Creek	Willard 15	From Gifford Pinchot National Forest boundary (Sec.33, T4N, R9E) downstream to mouth on Little White Salmon River (Sec.1, T3N, R9E).
(13)	Lewis River*	Burnt Peak* 7 1/2 Mt. St. Helens 15	From Gifford Pinchot National Forest boundary (Sec.24, T7N, R6E) downstream through Swift Reservoir to Cowlitz County line (Sec.31, T7N, R5E) except those reaches within the National Forest. The 1,000 cfs MAF point is at Gifford Pinchot N.F. boundary.
(14)	Little White Salmon River*	Willard* 15 Hood River 15	Beginning in (NE1/4 of NE1/4 of NE1/4 Sec.2, T4N, R9E) downstream to Drano Lake (Sec.26, T3N, R9E), excluding all federal lands. The 200 cfs MAF begins at confluence with Lava Creek (Sec.1, T3N, R9E).
(15)	Little Wind River	Wind River 15 Bonneville Dam 15	From the Gifford Pinchot National Forest boundary (Sec.14, T3N, R8E) downstream to mouth at Wind River (Sec.22, same township).
(16)	Lookout Creek	Lookout Mt. 15	From an approximate point (NW1/4 of Sec.6, T3N, R6E) downstream to mouth at Washougal River (Sec.1, T3N, R5E).
(17)	Muddy River	Mt. St. Helens 15	From the west section line (Sec.16, T8N, R6E) downstream to mouth at Lewis River (Sec.24, T7N, R6E). Exclude federal lands.
(18)	North Fork Toutle River	Spirit Lake 15	From Spirit Lake (Sec.15, T9N, R5E) downstream to Skamania County line (Sec.18, same township), excluding all federal lands.
(19)	North Siouxon Creek	Mt. St. Helens 15 Lookout Mt. 15	From the Gifford Pinchot National Forest boundary (Sec.16, T6N, R5E) downstream to the Clark County line (Sec.30, same township).
(20)	Ole Creek	Mt. St. Helens 15	From the confluence of Ole Creek and an unnamed creek (Sec.31, T7N, R5E) downstream to Lewis River (same section).
(21)	Panther Creek	Wind River 15	Beginning in (NW1/4 of SE1/4 of SE1/4 of Sec.25, T4N, R71/2E) downstream to mouth at Wind River (Sec.8, T3N, R8E).
(22)	Prospector Creek	Bridal Veil 15	From the confluence of Prospector Creek and Deer Creek (Sec.18, T3N, R6E) downstream to mouth at Washougal River (Sec.13, T3N, R5E).
(23)	Range Creek	Mt. St. Helens 15	From south section line of (Sec.12, T6N, R5E) downstream to Swift Reservoir (Sec.6, T6N, R6E).
(24)	Rock Creek	Lookout Mt. 15 Wind River 15 Bonneville Dam 15	From west section line (Sec.2, T3N, R6E) downstream to Columbia River (Sec.1, T2N, R7E).
(25)	Siouxon Creek	Lookout Mt. 15	From the Gifford Pinchot National Forest boundary (Sec.31, T6N, R5E) downstream to Clark County line (same section) excluding federal lands.
(26)	Spring Creek	Bonneville Dam 15	From the Gifford Pinchot National Forest boundary (Sec.22, T3N, R7E) downstream to mouth at Rock Creek (Sec.27, same township).
(27)	Stebbins Creek	Bridal Veil 15	From the confluence of Stebbins Creek and unnamed creek (Sec.28, T3N, R6E) downstream to mouth at Washougal River (Sec.6, T2N, R6E).

Stream Name		Quadrangle Name and Size	Legal Description
(28)	Swift Creek	Mt. St. Helens 15	From the Gifford Pinchot National Forest boundary (Sec.4, T7N, R5E) downstream to mouth at Swift Reservoir (Sec.16, same township) except those reaches within the National Forest.
(29)	Trout Creek	Wind River 15	Beginning in (SE1/4 of SE1/4 of NE1/4 of Sec.27, T4N, R7E) downstream to mouth at Wind River (Sec.26, same township).
(30)	Unnamed Tributary to Swift Creek	Mt. St. Helens 15	From the Gifford Pinchot National Forest boundary (Sec.10, T7N, R5E) downstream to mouth at Swift Creek (Sec.9, same township).
(31)	Washougal River	Lookout Mt. 15	From Gifford Pinchot National Forest boundary (Sec.1, T3N, R5E) downstream to mouth at Clark County line (Sec.31, T2N, R5E).
(32)	Washougal River (W. Fork)	Bridal Veil 15	From an approximate point (NW1/4 of SW1/4 of Sec.29, T3N, R5E) downstream to mouth at Washougal River (Sec.32, T2N, R5E).
(33)	West Fork Swift Creek	Mt. St. Helens 15	Beginning in (SE1/4 of NW1/4 of SW1/4 of Sec.4, T7N, R5E) downstream to Swift Creek (Sec.16, same township).
(34)	White Salmon River (Cont.)*	Willard 15 Hood River 15	From Klickitat County line (Sec.2, T3N, R10E) downstream right bank only to mouth on Columbia River (Sec.23, same township). The flow exceeds 200 cfs MAF at Skamania-Klickitat County line.
(35)	Wildboy Creek	Bridal Veil 15	From the confluence of Wildboy Creek and Texas Creek (Sec.17, T2N, R5E) downstream to West Fork Washougal River (Sec.20, same township).
(36)	Wind River*	Wind River* 15 Bonneville Dam 15	Beginning at the north section line of (Sec.9, T4N, R7E) downstream to mouth at Columbia River (Sec.27, T3N, R8E). The 200 cfs MAF point begins at Gifford Pinchot N.F. boundary (Sec.1, T3N, R71/2E).
(37)	Woodward Creek	Bridal Veil 15	From the confluence of Woodward Creek and unnamed creek (Sec.27, T2N, R6E) downstream to mouth at Columbia River (Sec.36, same township).
(38)	Unnamed Tributary to Swift Reservoir	Mt. St. Helens 15	From the east section line (Sec.2, T6N, R6E) downstream to mouth at Swift Reservoir (Sec.35, T7N, R6E).
(39)	Green River	Spirit Lake 15	From the Gifford Pinchot National Forest boundary (Sec.18, T10N, R6E) downstream to the Cowlitz-Skamania County line (Sec.6, same township). Exclude federal lands.
(40)	Drift Creek	Mt. St. Helens 15	From south section line (Sec.8, T6N, R6E) downstream to Swift Reservoir (Sec.5, same township). Exclude federal lands.
(41)	Coldwater Creek	Spirit Lake 15	From east section line (Sec.29, T10N, R5E) downstream to Cowlitz-Skamania County line (Sec.31, same township). Exclude federal lands.
(42)	Miners Creek	Spirit Lake 15	From confluence of Miners Creek and unnamed creek (SE1/4 Sec.8, T10N, R5E) downstream to Lewis-Skamania County line same section.
(43)	Smith Creek	Mt. St. Helens 15	From east section line of (Sec.30, T9N, R6E) downstream to mouth at Muddy River. (Sec.15, T8N, R6E) Exclude federal lands.
(44)	Cold Creek	Wind River 15	From NW1/4 of NE 1/4 (Sec.16, T4N, R7E) downstream to mouth at Wind River (Sec.9, same township).
(45)	Moss Creek	Willard 15	From the west section line of (Sec.27, T4N, R9E) downstream to confluence with Little White Salmon River (Sec.26, same township). Exclude federal lands.

[Statutory Authority: RCW 90.58.120 and 90.58.200. 80-08-052 (Order DE 80-20), § 173-18-340, filed 6/30/80; Order DE 76-14, § 173-18-340, filed 5/3/76; Order 73-14, § 173-18-340, filed 8/27/73; Order DE 72-13, § 173-18-340, filed 6/30/72.]

WAC 173-18-350 Snohomish County. Streams

Stream Name		Quadrangle Name and Size	Legal Description
(1)	Anderson Creek	Index 15	From the Snoqualmie National Forest boundary (Sec.24, T27N, R9E) downstream to mouth at Skykomish River (same section).
(2)	Ashton Creek	Fortson 7 1/2	From confluence of Ashton Creek and unnamed creek (Sec.20, T32N, R9E) downstream to mouth at Squire Creek (Sec.8, same township).
(3)	Barclay Creek	Baring 7 1/2	From the Snoqualmie National Forest boundary (Sec.25, T27N, R10E) downstream to mouth at Skykomish River South Fork (Sec.34, same township), excluding the part within Snoqualmie National Forest.
(4)	Boulder River	Granite Falls 15 Oso 15	From the Mt. Baker National Forest boundary (Sec.19, T32N, R8E) downstream to mouth at Stillaguamish River (Sec.9, T32N, R8E), excluding the part within Mt. Baker National Forest.
(5)	Brooks Creek	Oso 15	Beginning where Brooks Creek is crossed by unimproved dirt road (Sec.9, 32N, R7E) downstream to mouth at Stillaguamish River North Fork (same section).
(6)	Canyon Creek	Granite Falls 15	From the Mt. Baker National Forest boundary (Sec.25, T31N, R7E) downstream to mouth at Stillaguamish River South Fork (Sec.12, T30N, R6E).
(7)	Dan Creek	Darrington 7 1/2	From Mt. Baker National Forest boundary (Sec.8, T32N, R10E) downstream to mouth at Sauk River (same section).
(8)	Deer Creek (Cont.)	Oso 15	From the Skagit County line (Sec.5, T32N, R7E) downstream to mouth at Stillaguamish River North Fork (Sec.17, T32N, R7E).
(9)	Dubuque Creek	Everett 15 Snohomish 7 1/2	From confluence of Dubuque Creek and Panther Creek (Sec.22, T29N, R6E) downstream to mouth at Pilchuck River (Sec.21, same township).
(10)	Elk Creek	Index 15	Beginning at Snoqualmie National Forest boundary (Sec.3, T28N, R10E) downstream, to mouth at Sultan River (Sec.30, T29N, R10E), excluding Snoqualmie National Forest land.
(11)	Elwell Creek	Sultan 7 1/2	From confluence of Elwell Creek and Youngs Creek (Sec.24, T27N, R7E) downstream to mouth at Skykomish River (Sec.12, same township).
(12)	French Creek	Everett 15 Snohomish 7 1/2	From confluence of French Creek and unnamed creek (Sec.27, T28N, R6E) downstream to mouth at Snohomish River (Sec.30, same township).
(13)	French Creek	Oso 15	From Mt. Baker National Forest boundary (Sec.16, T32N, R8E) downstream to mouth at Stillaguamish River (Sec.10, same township) excluding Mt. Baker National Forest land.
(14)	Jim Creek	Granite Falls 15 Arlington East 7 1/2	From U.S. Naval Reservation boundary (Sec.31, T32N, R7E) downstream to mouth at Stillaguamish River South Fork (Sec.7, T31N, R6E).
(15)	Little Pilchuck Creek	Lake Stevens 7 1/2 Snohomish 7 1/2	From confluence of Little Pilchuck Creek and unnamed creek (Sec.22, T30N, R6E) downstream to mouth (Sec.21, T29N, R6E) at Pilchuck River.
(16)	May Creek	Index 15	From the Snoqualmie National Forest boundary (Sec.3, T27N, R9E) downstream to mouth at Wallace River (Sec.36, T28N, R8E).
(17)	McCoy Creek	Monroe 15 Sultan 7 1/2	From confluence of McCoy Creek and unnamed creek (Sec.17, T27N, R8E) downstream to mouth at Skykomish River (Sec.7, same township).
(18)	Montague Creek	Oso 15	From confluence of Montague Creek and unnamed creek (Sec.14, T32N, R7E) downstream to mouth at Stillaguamish River North Fork (Sec.10, same township).
(19)	Mud Lake Outlet	Granite Falls 15	From an approximate point (SE1/4 of SE1/4, Sec.33, T31N, R7E) downstream to mouth at Canyon Creek (Sec.3, T30N, R7E).
(20)	North Creek	Everett 15 Bothell 7 1/2	From confluence of North Creek and unnamed creek (Sec.19, T27N, R5E) downstream to King County line (Sec.32, same township).
(21)	Olney Creek	Index 15	From Snoqualmie National Forest boundary (Sec.6, T28N, R9E) downstream to mouth at Wallace River (Sec.36, T28N, R8E).

Stream Name		Quadrangle Name and Size	Legal Description
22)	Pilchuck Creek (Cont.)	Clear Lake 15 Arlington West 7 1/2	From Skagit County line (Sec.4, T32N, R5E) downstream to mouth at Stillaguamish River (Sec.6, T31N, R5E).
(23)	Pilchuck River	Index 15 Lake Stevens 7 1/2 Snohomish 7 1/2 Monroe 15 Granite Falls 15	From the Snoqualmie National Forest boundary (Sec.23, T29N, R8E) downstream to mouth at Snohomish River (Sec.19, T28N, R6E).
(24)	Portage Creek	Arlington West 7 1/2	From confluence of Portage Creek and unnamed creek (Sec.7, T31N, R5E) downstream to mouth at South Slough of the Stillaguamish River (Sec.12, T31N, R4E).
(25)	Proctor Creek	Index 15	From the Snoqualmie National Forest boundary (Sec.15, T27N, R9E) downstream to mouth at Skykomish River (Sec.10, same township).
(26)	Quilceda Creek	Marysville 7 1/2	From confluence of Quilceda Cr. and Middle Fork (Sec.9, T30N, R5E) downstream to mouth at Ebbey Slough of Possession Sound (Sec.31, T30N, R5E) excluding federal lands.
(27)	Rollins Creek	Oso 15	From confluence of Rollins Creek and unnamed creek (Sec.1, T32N, R7E) downstream to mouth at Stillaguamish River North Fork (Sec.12, same township).
(28)	Sauk River*	Silverton* 15 Darrington 7 1/2	From Mt. Baker National Forest boundary (Sec.36, T32N, R9E) downstream to Snohomish County and Skagit County line (Sec.5, T32N, R10E). The 1,000 cfs MAF point is at Mt. Baker N. F. boundary.
(29)	Skykomish River*	Index* 15 Sultan 7 1/2 Monroe 7 1/2	From confluence of North Fork and South Fork of Skykomish River (Sec.19, T27N, R10E) downstream to mouth at Snohomish River (Sec.16, T27N, R6E) excluding all federal land. The 1,000 cfs MAF point begins at confluence of North and South Fork Skykomish River.
(30)	Skykomish River (N. Fk.)*	Index* 15	Beginning at SW1/4 (Sec.20, T28N, R11E) downstream to mouth at Skykomish River (Sec.19, T27N, R10E) excluding those shores within federal lands. The 1,000 cfs MAF point begins at east section line (Sec.16, T27N, R10E).
(31)	Skykomish River (South Fork) (Cont.)*	Baring 7 1/2 Index 15	From King County line (Sec.34, T27N, R10E) downstream to mouth at Skykomish River (Sec.19, same township) excluding all federal land. The flow exceeds 1,000 cfs MAF at King County line.
(32)	Snohomish River*	Everett 15 Maltby* 7 1/2 Snohomish 7 1/2 Everett 7 1/2 Marysville 7 1/2	From confluence of Skykomish River and Snoqualmie River (Sec.16, T27N, R6E) downstream to mouth at Possession Sound (Sec.7, T29N, R5E). The flow exceeds 1,000 cfs MAF at confluence of Skykomish River and Snoqualmie River.
(33)	Snoqualmie River* (Cont.)	Monroe 15 Maltby 7 1/2 Monroe 7 1/2	From the King County line (Sec.31, T27N, R7E) downstream to mouth at Snohomish River (Sec.16, T27N, R6E). The flow exceeds 1,000 cfs MAF at King County line.
(34)	Squire Creek	Silverton 15 Fortson 7 1/2	From the Mt. Baker National Forest boundary (Sec.27, T32N, R9E) downstream to mouth at Stillaguamish River N. Fork (Sec.8, same township).
(35)	Stevens Creek	Lake Stevens 7 1/2 Snohomish 7 1/2	From confluence of Stevens Creek and Catherine Creek (Sec.8, T29N, R6E) downstream to mouth at Little Pilchuck Creek (Sec.16, same township).
(36)	Stillaguamish River*	Arlington East* 7 1/2 Arlington West 7 1/2 Stanwood 7 1/2	From confluence of South Fork and North Fork of Stillaguamish River (Sec. 2, T31N, R5E) downstream to mouth at Port Susan in Puget Sound (Sec.12, T31N, R3E). The flow exceeds 1,000 cfs MAF at confluence of N. Fork and South Fork Stillaguamish River.
(37)	Stillaguamish River (N.F.) (Cont.)*	Fortson 7 1/2 Oso* 15 Clear Lake 15 Arlington East 7 1/2 Arlington West 7 1/2	From Snohomish County line (Sec.3, T32N, R9E) downstream to mouth at Stillaguamish River South Fork (Sec.2, T31N, R5E). The 1,000 cfs MAF point begins at mouth of Boulder Creek (Sec.9, T32N, R8E).
(38)	Stillaguamish River (South Fork)*	Silverton 15 Granite Falls* 15 Lake Stevens 7 1/2 Arlington 7 1/2	From Mt. Baker National Forest boundary (Sec.19, T30N, R10E) downstream to mouth at Stillaguamish River North Fork (Sec.2, T31N, R5E). The 1,000 cfs MAF point begins at mouth of Cranberry Creek (Sec.12, T30N, R7E). Exclude federal lands.

Stream Name		Quadrangle Name and Size	Legal Description
(39)	Stony Creek	Silverton 15	From an approximate point (NE1/4 of NW1/4 Sec.18, T29N, R10E) downstream to mouth at Williamson Creek (Sec.12, T29N, R9E) excluding all federal land.
(40)	Sultan River	Monte Cristo 7 1/2 Sultan 7 1/2 Monroe 15 Index 15	Beginning at Snoqualmie National Forest boundary (Sec.22, T29N, R10E) downstream to mouth at Skykomish River (Sec.6, T27N, R8E) excluding all federal lands.
(41)	Sultan River (N. Fork of South Fork)	Index 15	From confluence of Sultan River North Fork of South Fork and unnamed creek (Sec.7, T28N, R10E) downstream to mouth at Sultan River (Sec.28, T29N, R9E) excluding all federal land.
(42)	Swamp Creek	Edmonds 15 Edmonds E. 7 1/2 Bothell 7 1/2	From confluence of Swamp Creek and unnamed creek (Sec.26, T27N, R4E) downstream to King County line (Sec.35, same township).
(43)	Unnamed Tributary to French Creek	Everett 15 Snohomish 7 1/2	From confluence of unnamed tributary to French Creek and unnamed creek (NW1/4 of Sec.34, T28N, R6E) downstream to mouth at French Creek (Sec.20, same township).
(44)	Wallace River	Index 15 Sultan 7 1/2	From the Snoqualmie National Forest boundary (Sec.25, T28N, R9E) downstream to mouth at Skykomish River (Sec.4, T27N, R8E).
(45)	Wallace River (N. Fk.)	Index 15	From confluence of North Fork Wallace River and unnamed creek (Sec.28, T28N, R9E) downstream to mouth at Wallace River (Sec.33, same township).
(46)	Williamson Creek	Silverton 15 Index 15	Beginning at Snoqualmie National Forest boundary (Sec.6, T29N, R10E) downstream to mouth at Sultan River (Sec.24, T29N, R9E) excluding all federal lands.
(47)	Woods Creek	Monroe 15 Monroe 7 1/2	From confluence of Woods Creek and unnamed creek (Sec.26, T29N, R7E) downstream to mouth at Skykomish River (Sec.12, T27N, R6E).
(48)	Woods Creek (W. Fk.)	Monroe 15 Monroe 7 1/2	From confluence of Carpenter Creek and Woods Creek West Fork (Sec.5, T28N, R7E) downstream to mouth at Woods Creek (Sec.33, same township).
(49)	Worthy Creek	Granite Falls 15	From confluence of Worthy Creek and unnamed creek (Sec.26, T30N, R7E) downstream to mouth at Pilchuck River (Sec.2, T29N, R7E).
(50)	Youngs Creek	Monroe 15 Sultan 7 1/2	From an approximate point (NE1/4 of SE1/4 Sec.34, T27N, R8E) downstream to mouth at Elwell Creek (Sec.24, T27N, R7E).
(51)	Suiattle River*	Huckleberry Mtn.* 7 1/2 Prairie Mtn. 7 1/2	From the east section (Sec.20, T32N, R12E) downstream to Skagit-Snohomish County line (Sec.5, T32N, R11E). Exclude federal lands. The flow is 1000 cfs MAF at east section line (Sec.20, T32N, R12E).
(52)	Beckler River	Evergreen Mtn. 7 1/2	From the west section line (Sec.8, T27N, R12E) downstream to Snohomish-King County line (Sec.32, T27N, R12E). Exclude federal lands.
(53)	Rapid River	Captain Point 7 1/2 Evergreen Mtn. 7 1/2	From east section line (Sec.13, T27N, R12E) downstream to Beckler River (Sec.29, T27N, R12E). Exclude federal lands.

[Order DE 76-14, § 173-18-350, filed 5/3/76; Order 73-14, § 173-18-350, filed 8/27/73; Order DE 72-13, § 173-18-350, filed 6/30/72.]

WAC 173-18-360 Spokane County. Streams

Stream Name		Quadrangle Name and Size	Legal Description
(1)	Deadman Creek	Deer Park 15	From the confluence of Deadman Creek and two unnamed creeks (Sec.1, T26N, R43E) downstream to mouth at Spokane River (Sec.33, T27N, R43E).
(2)	Dragoon Creek	Deer Park 15	From the confluence of Dragoon Creek and West Branch of the Dragoon Creek (Sec.22, T28N, R42E) downstream to mouth at the Little Spokane River (Sec.4, T27N, R43E).
(3)	Hangman Creek (Cont.)* or Latah Creek	Fairfield 15 Spangle* 15 Spokane SE 7 1/2 Spokane SW 7 1/2 Spokane NW 7 1/2	From the Whitman-Spokane County line (Sec.32, T21N, R45E) downstream to mouth on Spokane River (Sec.14, T25N, R42E). This stream has 300 square miles of drainage area ending at unnamed tributary (Sec.13, T23N, R43E) upstream from Rock Creek.

Stream Name	Quadrangle Name and Size	Legal Description
(4) Little Spokane River (Cont.)*	Camden 7 1/2 Elk 7 1/2 Deer Park* 15 Clayton 15	From the Pend Oreille County line (Sec.3, T29N, R44E) downstream (excluding all federal lands) to mouth at the Spokane River and Stevens County line (Sec.32, T27N, R42E). This stream has a 300 square mile drainage area ending at mouth of Deer Creek (Sec.34, T28N, R43E).
(5) Little Spokane River (West Branch)	Newport 30 Fan Lake 7 1/2 Elk 7 1/2 Deer Park 15	From the Pend Oreille County line (Sec.5, T29N, R43E) downstream through Eloika Lake to mouth at Little Spokane River (Sec.26, same township).
(6) Pine Creek (Cont.)	Spangle 15	From Whitman County line (Sec.34, T21N, R43E) downstream back to Whitman County line (Sec.31, same township).
(7) Rock Creek	Fairfield 15 Spangle 15 Spokane SE 7 1/2	From the confluence of Rock Creek and Rose Creek (Sec.34, T23N, R45E) downstream to mouth at Latah Creek (Sec.11, T23N, R43E).
(8) Spokane River*	Green Acres* 15 Spokane NE 7 1/2 Spokane NW 7 1/2 Airway Heights 7 1/2 Clayton 15 Wellpinit 15	From the Washington-Idaho border (Sec.6, T25N, R46E) downstream to the Spokane-Stevens County line, along said county line to the Lincoln County line (Sec.19, T27N, R40E) excluding all federal lands. The flow is 200 cfs MAF and has 300 square miles of drainage area at Washington-Idaho border.

[Order DE 76-14, § 173-18-360, filed 5/3/76; Order 73-14, § 173-18-360, filed 8/27/73; Order DE 72-13, § 173-18-360, filed 6/30/72.]

WAC 173-18-370 Stevens County. Streams

Stream Name	Quadrangle Name and Size	Legal Description
(1) Big Sheep Creek*	Colville 30 Belshazzor Mt. 7 1/2 Northport* 7 1/2	From the Colville National Forest boundary (Sec.13, T40N, R38E) downstream to mouth at the Columbia River near Sand Point (Sec.30, T40N, R40E). The 200 cfs MAF point begins at mouth of Little Sheep Creek (Sec.14, T40N, R39E).
(2) Chamokane Creek	Clayton 15 Wellpinit 15	From the confluence of Chamokane Creek and unnamed stream (Sec.23, T29N, R40E) downstream left shore only (right shore in Spokane Indian Reservation) to mouth on Spokane River (Sec.15, T27N, R39E).
(3) Chewelah Creek	Chewelah Mt. 15 Chewelah 7 1/2	From the confluence of the North Fork and the South Fork Chewelah Cr. (Sec.11, T32N, R40E) downstream to mouth on Colville River (Sec.23, same township).
(4) Colville River*	Forest Center 7 1/2 Waitts Lake 7 1/2 Valley 7 1/2 Chewelah* 7 1/2 Addy 7 1/2 Addy Mt. 7 1/2 Arden 7 1/2 Colville 7 1/2 Marcus 30	From the confluence of Deer Cr. and Sheep Creek (Sec.9, T30N, R40E) downstream (excluding all federal lands) to mouth at Columbia River (Sec.36, T36N, R37E). This river has over 300 sq. miles of drainage area ending at mouth of Chewelah Creek (Sec.23, T32N, R40E).
(5) Columbia River*	Boundary* 7 1/2 Northport 7 1/2 Onion Creek 7 1/2 China Bend 7 1/2 Bossburg 7 1/2 Marcus 7 1/2 Kettle Falls 7 1/2 Bangs Mountain 7 1/2 Inchelium 15 Hunters 15 Wilmont Creek 15	From the United States-Canadian boundary (Sec.2, T40N, R41E) downstream to Spokane Indian Reservation boundary (Sec.23, T29N, R35E). This river has over 200 cfs MAF at U.S.-Canadian border.
(6) Kettle River*	Marcus 30 Orient 7 1/2 Laurier* 7 1/2	From the United States-Canadian border (Sec.2, T40N, R36E) downstream along Ferry-Stevens Co. line. Left bank only to (Sec.20, T38N, R37E), excluding federal lands. This stream has both 200 cfs MAF and 300 sq. miles of drainage area at U.S.-Canadian border.
(7) Little Pend Oreille River	Lake Gillette 7 1/2 Park Rapids 7 1/2 Cliff Ridge 7 1/2 Addy Mt. 7 1/2 Arden 7 1/2	That part of the Little Pend Oreille River outside the Little Pend Oreille National Wildlife Refuge (Sec.11, T35N, R41E) and that part outside Refuge (Sec.15 & 16, T35N, R41E), and that part outside refuge from (Sec.10, T34N, R40E) to Colville River (Sec.10, T34N, R39E).
(8) Little Sheep Cr.	Colville 30 Northport 7 1/2	From the confluence of Boundary Creek and Little Sheep Creek (Sec.10, T40N, R39E) downstream to mouth at Big Sheep Creek (Sec.14, same township).
(9) Mill Creek	White Mud Lake 7 1/2 Colville 7 1/2	From the Colville National Forest boundary (Sec.15, T36N, R40E) downstream (excluding all federal lands) to mouth at Colville River (Sec.31, T36N, R39E).

Stream Name	Quadrangle Name and Size	Legal Description
(10) Onion Creek	Colville 30 Onion Creek 7 1/2	From the confluence of Onion Creek and unnamed creek (Sec.12, T38N, R39E) downstream to mouth at Columbia River (Sec.23, T39N, R39E). Excluding Coulee Dam National Recreation area.
(11) Spokane River (Cont.)*	Clayton 15 Wellpinit 15 Turtle Lake 15 Lincoln 15	From the Spokane County line on the Spokane River (Sec.32, T27N, R42E) downstream through Long Lake to Spokane Indian Reservation boundary (Sec.15, T27N, R39E), right shore only. This river has 300 sq. miles of drainage area and over 200 cfs MAF at Spokane Co. line.
(12) Deep Creek (South Fork)	Spirit 7 1/2 Aladdin 7 1/2	From the confluence of Rocky Creek and South Fork of Deep Creek in (Sec.8, T37N, R41E) downstream to confluence North Fork Deep Creek and Deep Creek in (Sec.5, T38N, R41E).
(13) Deep Creek (North Fork)	Deep Lake 7 1/2 Aladdin 7 1/2	From the confluence of McKinnon Creek and North Fork Deep Creek in (Sec.11, T39N, R41E) downstream through Deep Lake to confluence with South Fork Deep Creek and Deep Creek in (Sec.5, T38N, R41E).
(14) Deep Creek	Aladdin 7 1/2 Spirit 7 1/2	From the confluence of the South Fork and North Fork of Deep Creek in (Sec.5, T38N, R41E) downstream to mouth at Columbia River (Sec.34, T40N, R40E).
(3) Black Lake Drainage Ditch	Tumwater 7 1/2	From outlet of Black Lake (Sec.32, T18N, R2W) downstream to confluence with Percival Creek (Sec.21, T18N, R2W).
(4) Cedar Creek	Rochester 15	From the confluence of Cedar Cr. and Sherman Creek (Sec.2, T16N, R4W) downstream to Grays Harbor County line (same section).
(5) Chehalis River (Cont.)*	Rochester 15	From Lewis County line (Sec.23, T15N, R3W) downstream to Grays Harbor County line (Sec.11, T15N, R4W), excluding all federal lands. The flow exceeds 1,000 cfs MAF at Lewis County line.
(6) Deschutes River (Cont.)	Ohop Valley 15 Bald Hill 7 1/2 Lake Lawrence 7 1/2 Vail 7 1/2 Weir Prairie 7 1/2 East Olympia 7 1/2 Tumwater 7 1/2 Maytown 7 1/2	From Lewis County line (Sec.24, T15N, R3E) downstream to mouth at Capitol Lake (Sec.26, T18N, R2W), excluding all federal lands.
(7) Kennedy Creek	Shelton 15	From the confluence of Kennedy Creek and unnamed creek (Sec.14, T18N, R4W) downstream to the Mason County line (Sec.6, T18N, R3W).
(8) Little Nisqually River (Cont.)	Ohop Valley 15 Eatonville 7 1/2	From the Lewis-Thurston County line (Sec.21, T15N, R4E) downstream to Alder Lake (Sec.16, same township).
(9) McAllister Creek	Anderson Island 15 Nisqually 7 1/2	From the McAllister Springs (Sec.19, T18N, R1E) downstream to mouth at Nisqually Head (Sec.31, T19N, R1E).
(10) McLane Creek	Tumwater 7 1/2	From an approximate point (SW1/4 of NE1/4 of Sec.25, T18N, R3W) downstream to mouth at Eld Inlet (Sec.19, T18N, R2W).
(11) Mima Creek	Rochester 15	From an approximate point (NE1/4 of NW1/4 of Sec.16, T16N, R3W) downstream to mouth at Black River (Sec.20, same township).

[Order DE 76-14, § 173-18-370, filed 5/3/76; Order 73-14, § 173-18-370, filed 8/27/73; Order DE 72-13, § 173-18-370, filed 6/30/72.]

WAC 173-18-380 Thurston County. Streams

Stream Name	Quadrangle Name and Size	Legal Description
(1) Beaver Creek	Tenino 15 Maytown 7 1/2 Rochester 15	From the confluence of Beaver Creek and unnamed creek (Sec.11, T16N, R2W) downstream to mouth at Black River (Sec.2, T16N, R3W).
(2) Black River	Tenino 15 Maytown 7 1/2 Rochester 15	From the confluence of Dempsey Creek and the Black River (Sec.13, T17N, R3W) downstream to Grays Harbor County line (Sec.26, T16N, R4W).

Stream Name		Quadrangle Name and Size	Legal Description
(12)	Mitchell Creek	Ohop Valley 15 Bald Hill 7 1/2	From the confluence of Mitchell Creek and unnamed creek (Sec.18, T15N, R3E) downstream to mouth at Deschutes River (Sec.7, same township).
(13)	Nisqually River (Cont.)*	Kapowsin 15 Ohop Valley 15 Yelm 7 1/2 Anderson Island 15	From the Pierce County line in Alder Reservoir (Sec.20, T15N, R5E) downstream along left shore only, (exclude area from LaGrande Dam downstream to power-house due to use of aque-duct; also exclude all fed-eral lands) to the Nisqually Indian Reserva-tion boundary (Sec.11, T17N, R1E). The flow exceeds 1,000 cfs MAF at Pierce County line in Alder Reservoir.
(14)	Percival Creek	Tumwater 7 1/2	From the confluence of Percival Creek and stream from Black Lake (Sec.21, T18N, R2W) downstream to mouth at Capitol Lake (Sec.22, same township).
(15)	Scatter Creek	Tenino 15 Bucoda 7 1/2 Tenino S.W. 7 1/2 Rochester 15	From confluence of Scat-ter Creek and unnamed creek (Sec.20, T16N, R1W) downstream to mouth at Chehalis River (Sec.7, T15N, R3W).
(16)	Sherman Creek	Rochester 15	From the confluence of Sherman Creek and Mon-roe Creek (Sec.25, T17N, R4W) downstream to mouth on Cedar Cr. (Sec.2, T16N, R4W).
(17)	Skookum-chuck River (Cont.)	Yelm 15 Tenino 15	From the Lewis County line (Sec.20, T15N, R2E) downstream back to the Lewis County line (Sec.21, T15N, R2W).
(18)	Thompson Creek	Yelm 15 Weir Prairie 7 1/2	From the intersection of Highway SR 510 and Thompson Creek (Sec.11, T17N, R1E) downstream to mouth at Nisqually River (same section).
(19)	Waddell Creek	Rochester 15	From an approximate point (SE1/4 of NW1/4 of Sec.8, T17N, R3W) downstream to mouth at Black River (Sec.2, T16N, R3W).
(20)	Woodland Creek	Lacey 7 1/2	From an approximate point (NE1/4 of NE1/4 of SE1/4 of Sec.9, T18N, R1W) downstream to mouth at Henderson Inlet near South Bay (Sec.32, T19N, R1W).
(21)	Yelm Creek	Yelm 15 McKenna 7 1/2 Weir Prairie 7 1/2	From the confluence of Yelm Creek and Yelm ditch (Sec.29, T17N, R2E) downstream to mouth at Nisqually River (Sec.12, T17N, R1E).

[Statutory Authority: RCW 90.58.030, 90.58.120 and 90.58.200. 85-09-043 (Order DE 85-05), § 173-18-380, filed 4/15/85; Order DE 76-14, § 173-18-380, filed 5/3/76; Order 73-14, § 173-18-380, filed 8/27/73; Order DE 72-13, § 173-18-380, filed 6/30/72.]

WAC 173-18-390 Wahkiakum County. Streams

Stream Name		Quadrangle Name and Size	Legal Description
(1)	Alger Creek	Skamokawa 15	From the intersection of State Sign Route 4 and Alger Creek (Sec.15, T9N, R6W) downstream to mouth at Brooks Slough (same section).
(2)	Beaver Creek	Cathlamet 15	From the confluence of Beaver Cr. and unnamed creek (Sec.33, T9N, R5W) downstream to mouth at Elochoman River (Sec.32, same township).
(3)	Columbia River (Cont.)*	Clatskanie 15 Cathlamet 15 Skamokawa 15 Grays River 15	From the Cowlitz Co. line on Columbia River (Sec.20, T8N, R4W) downstream along the Wash.-Oregon boundary to the Pacific Co. line to Grays Bay (Sec.7, T9N, R9W). The flow exceeds 1,000 cfs MAF at Cowlitz County line.
(4)	Crooked Creek	Grays River 15	From the confluence of Crooked Creek and the So. Fork Crooked Cr. (Sec.36, T10N, R8W) downstream to Grays Bay (Sec.4, T9N, R8W).
(5)	Deep River	Grays River 15	From the confluence of Deep River and Hendrick-son Canyon Stream (Sec.9, T10N, R8W) downstream to mouth at Grays Bay (Sec.31, T9N, R8W).
(6)	Elochoman River	Skamokawa 15 Cathlamet 15	From the confluence of the West Fork Elochoman and the North Fork Elochoman River (Sec.26, T10N, R5W) downstream to mouth at Elochoman Slough (Sec.36, T9N, R6W).

Stream Name		Quadrangle Name and Size	Legal Description
(7)	Elochoman River (East Fk.) (Cont.)	Ryderwood 15	From the Cowlitz Co. line (Sec.7, T10N, R4W) downstream to Elochoman River (Sec.13, T10N, R5W).
(8)	Elochoman River (North Fk.)	Skamokawa 15 Ryderwood 15	From the confluence of North Fk. Elochoman R. and unnamed creek (Sec.12, T10N, R5W) downstream to mouth at Elochoman River (Sec.26, T10N, R5W).
(9)	Elochoman River (West Fk.)	Skamokawa 15	From the confluence of West Fork Elochoman R.and unnamed creek (Sec.21, T10N, R5W) downstream to mouth at Elochoman River (Sec.26, same township).
(10)	Falk Creek	Skamokawa 15	From an approximate point (NW1/4 of NE1/4 of SW1/4 of Sec.33, T10N, R6W) downstream to mouth at Skamokawa Creek (Sec.5, T9N, R6W).
(11)	Fossil Creek	Grays River 15	From the confluence of Fossil Cr. and an unnamed cr. (Sec.10, T10N, R7W) downstream to mouth at Grays River (Sec.9, same township).
(12)	Grays River (Cont.)	Grays River 15	From the Pacific Co. line (Sec.2, T10N, R7W) downstream to mouth at Grays Bay (Sec.32, T10N, R8W).
(13)	Grays River (S. Fork)	Skamokawa 15	From an approximate point (SW1/4 of NE1/4 of Sec.1, T10N, R6W) downstream to Pacific County line (Sec.5, same township).
(14)	Grays River (W. Fk.) (Cont.)	Grays River 15	From the Pacific County line (NW1/4 of NW1/4 Sec.4, T10N, R7W) downstream to mouth at Grays River (Sec.9, same township).
(15)	Hull Creek (Cont.)	Grays River 15	From Pacific County line (Sec.5, T10N, R7W) downstream to mouth at Grays R. (Sec.13, T10N, R8W).
(16)	Jim Crow Creek	Grays River 15	From the confluence of Jim Crow Creek and unnamed creek (Sec.4, T9N, R7W) downstream to mouth at Columbia River (Sec.16, same township).
(17)	McDonald Creek	Skamokawa 15	From the confluence of McDonald Creek and unnamed creek (Sec.22, T10N, R6W) downstream to mouth at Skamokawa Creek (Sec.29, same township).
(18)	Mill Creek	Cathlamet 15 Clatskanie 15	From the NW Section corner (Sec.25, T9N, R5W) downstream to the Cowlitz County line (Sec.31, T9N, R4W).
(19)	Naselle River	Grays River 15	From the Pacific County line (Sec.6, T10N, R8W) downstream back to Pacific Co. line (same section).
(20)	Nelson Creek	Cathlamet 15	From the intersection of Nelson Cr. and Risk Rd. (Sec.25, T9N, R6W) downstream to mouth at Elochoman River (Sec.26, same township).
(21)	Otter Creek	Ryderwood 15	From the confluence of Otter Cr. and unnamed creek near the north section line (Sec.7, T10N, R4W) downstream to the East Fk. Elochoman R. (same section).
(22)	Salmon Creek (Cont.)	Grays River 15	From the Pacific County line (Sec.5, T10N, R8W) downstream to Pacific County line (Sec.7, same township).
(23)	Skamokawa Creek	Skamokawa 15	From the confluence of McDonald Creek and Standard Creek (Sec.28, T10N, R6W) downstream to mouth at Columbia River (Sec.17, T9N, R6W).
(24)	Skamokawa Creek (Left Fk.)	Skamokawa 15	From the confluence of the Left Fork Skamokawa Cr. and unnamed creek (Sec.19, T10N, R6W) downstream to mouth at Skamokawa Creek (Sec.29, same township).
(25)	Skamokawa Creek (West Fk.)	Skamokawa 15	From the confluence of West Fork Skamokawa Creek and Kelly Creek (Sec.31, T10N, R6W) downstream to Skamokawa Creek (Sec.8, T9N, R6W).
(26)	West Valley Creek	Skamokawa 15	From an approximate point (NE1/4 of Sec.1, T9N, R7W) downstream to mouth at the West Fork Skamokawa Cr. (Sec.6, T9N, R6W).
(27)	Wilson	Skamokawa 15	From the confluence of Wilson Cr. and unnamed creek (SW1/4 of NE1/4 of Sec.5, T9N, R5W) downstream to mouth at Skamokawa Creek (Sec.5, T9N, R6W).

[Statutory Authority: RCW 90.58.120 and 90.58.200. 80-08-052 (Order DE 80-20), § 173-18-390, filed 6/30/80; Order DE 76-14, § 173-18-390, filed 5/3/76; Order 73-14, § 173-18-390, filed 8/27/73; Order DE 72-13, § 173-18-390, filed 6/30/72.]

WAC 173-18-400 Walla Walla County. Streams

Stream Name		Quadrangle Name and Size	Legal Description
(1)	Columbia River (Cont.)*		Columbia River within Walla Walla County is under federal jurisdiction. This river has over 200 cfs MAF at Franklin County line.
(2)	Dry Cr.	Walla Walla 30 Lowden 7 1/2 College Place 7 1/2 Hadley 7 1/2 Valley Grove 7 1/2 Dixie 7 1/2	From an approximate point near the center of quarter section (SE1/4 of Sec.36, T8N, R36E) downstream to mouth at Walla Walla River (Sec.29, T7N, R34E).
(3)	Mill Cr.	Walla Walla 30 Kooskooskie 7 1/2 Buroker 7 1/2 Walla Walla 7 1/2 College Place 7 1/2	From the Wash.-Ore. state boundary (Sec.18, T6N, R38E) downstream to mouth at Walla Walla River (Sec.31, T7N, R35E) exclude left bank (Sec. 32, same township).
(4)	Snake R. (Cont.)*		Snake River within Walla Walla County is under federal jurisdiction. This stream has over 300 sq. miles drainage area and over 200 cfs MAF at Columbia County line.
(5)	Touchet River (Cont.)*	Walla Walla 30 Eureka 7 1/2 Rulo 7 1/2 Welland 7 1/2 Touchet 7 1/2 Huntsville 7 1/2 Waitsburg 7 1/2 Prescott 7 1/2 Harsha 7 1/2	From the Columbia County line (Sec.12, T9N, R37E) downstream to mouth on Walla Walla River (Sec.4, T6N, R33E). This river has over 300 sq. miles of drainage area ending at mouth of left bank unnamed tributary (Sec. 11, T9N, R37E).
(6)	Walla Walla River*	Walla Walla 30 College Place 7 1/2 Lowden 7 1/2 Touchet 7 1/2 Zangar Junction 7 1/2 Wallula 7 1/2	From the Washington-Oregon boundary (Sec.13, T6N, R35E) downstream to mouth at Lake Wallula (Sec.26, T7N, R31E). This river has 300 sq. miles of drainage area at Washington-Oregon boundary.

[Order DE 76-14, § 173-18-400, filed 5/3/76; Order 73-14, § 173-18-400, filed 8/27/73; Order DE 72-13, § 173-18-400, filed 6/30/72.]

WAC 173-18-410 Whatcom County. Streams

Stream Name		Quadrangle Name and Size	Legal Description
(1)	Anderson Creek	Lynden 15 Lawrence 7 1/2	From confluence of Anderson Creek and unnamed creek (Sec.7, T38N, R4E) downstream to mouth at Nooksack River (Sec.17, T39N, R4E).
(2)	Austin Creek	Samish Lake 15 Lake Whatcom 7 1/2	From confluence of Austin Creek and Beaver Creek (Sec.7, T37N, R4E) downstream to mouth at Lake Whatcom (Sec.5, same township).
(3)	Bertrand Creek	Blaine 15 Bertrand Creek 7 1/2	Beginning at U.S., Canada border (Sec.35, T41N, R2E) downstream to mouth at Nooksack R. (Sec.34, T40N, R2E).
(4)	Boulder Creek	Van Zandt 15	From confluence of Boulder Creek and unnamed creek (Sec.22, T40N, R6E) downstream to mouth at Nooksack River (Sec.28, same township).
(5)	Breckenridge Creek	Lynden 15 Sumas 7 1/2	From approximate point (SE1/4 of NW1/4 Sec.26, T40N, R4E) downstream to mouth Sumas River (Sec.29, same township).
(6)	California Creek	Blaine 15 Blaine 7 1/2	From confluence of California Creek and unnamed creek (Sec.27, T40N, R1E) downstream to mouth at Drayton Harbor (Sec.18, same township).
(7)	Canyon Creek	Mt. Baker 15	From Mt. Baker National Forest boundary (Sec.25, T40N, R6E) downstream to mouth at Nooksack River North Fork (Sec.35, same township).
(8)	Canyon Creek	Van Zandt 15	From confluence of Canyon Creek and unnamed creek (Sec.32, T39N, R6E) downstream through Canyon Lake to mouth at Nooksack River M. Fork (Sec.34, T39N, R5E).
(9)	Clearwater Creek	Mt. Baker 15 Van Zandt 15	Beginning at Mt. Baker National Forest boundary (Sec.11, T38N, R6E) downstream to mouth at Nooksack River M. Fk. (Sec.21, same township).
(10)	Coal Creek	Van Zandt 15	From an approximate point (SW1/4 of SE1/4 Sec.4, T39N, R5E) downstream to mouth at Nooksack River (Sec.10, same township).
(11)	Dakota Creek	Blaine 15 Blaine 7 1/2	From confluence of Dakota Creek and North Fork Dakota Creek (Sec.14, T40N, R1E) downstream to mouth at Drayton Harbor (Sec.7, same township).
(12)	Fishtrap Creek	Lynden 15 Lynden 7 1/2 Bertrand 7 1/2	From the British Columbia-Washington state border (Sec.34, T41N, R3E) downstream to mouth at Nooksack River (Sec.35, T40N, R2E).

Stream Name	Quadrangle Name and Size	Legal Description
(13) Friday Creek	Samish Lake 15 Lake Whatcom 7 1/2	From the outflow of Samish Lake on southern tip (Sec.36, T37N, R3E) downstream to Skagit County line (same section).
(14) Galbraith Creek	Wickersham 15 Van Zandt 15	From confluence of Galbraith Creek and unnamed creek (Sec.33, T38N, R6E) downstream to mouth at Nooksack River (Sec.27, same township).
(15) Hayden Creek	Hamilton 15 Wickersham 15	From confluence of Hayden Creek and unnamed creek (Sec.26, T37N, R6E) downstream to mouth at Skookum Creek (Sec.22 same township).
(16) Howard Creek	Hamilton 15	From confluence of Howard Creek and unnamed creek (Sec.35, T37N, R6E) downstream to Skagit County line (Sec.36, same township).
(17) Hutchinson Creek	Wickersham 15	From confluence of Hutchinson Creek and unnamed creek (Sec.1, T37N, R5E) downstream to mouth at Nooksack River South Fork (Sec.9, same township).
(18) Johnson Creek (in flood plain)	Lynden 15 Sumas 7 1/2 Van Zandt 15	From confluence of Johnson Creek and unnamed creek near north section line (Sec.8, T40N, R4E) downstream to mouth at Sumas River (Sec.35, T41N, R4E).
(19) Kendall Creek	Van Zandt 15	Beginning where medium duty highway crosses Kendall Creek (Sec.27, T40N, R5E) downstream to mouth at Nooksack River (Sec.3, T39N, R5E).
(20) Maple Creek	Van Zandt 15	Beginning where unimproved dirt road crosses Maple Creek (Sec.18, T40N, R6E) downstream to mouth at Nooksack River (Sec.31, same township).
(21) Nooksack River*	Mt. Baker* 15 Lawrence 7 1/2 Sumas 7 1/2 Lynden 7 1/2 Bertrand 7 1/2 Ferndale 7 1/2 Van Zandt 15	Beginning at east section line (Sec.5, T39N, R7E) south bank only, both sides starting at east section line (Sec.1, T39N, R6E), downstream to mouth at Bellingham Bay (Sec.19, T38N, R2E). Exclude federal lands. The 1,000 cfs MAF point begins at confluence with Glacier Creek.
(22) Nooksack River (M. Fk.)	Mt. Baker 15 Van Zandt 15	From Mt. Baker National Forest boundary (Sec.25, T38N, R6E) downstream to mouth at Nooksack River (Sec.27, T39N, R5E).
(23) Nooksack River (N. Fk.)	Mt. Baker 15	From Mt. Baker National Forest boundary (Sec.5, T39N, R7E) downstream to where the medium-duty road crosses Nooksack River (Sec.2, T39N, R6E).
(24) Nooksack River (S. Fk.) (Cont.)*	Wickersham* 15 Van Zandt 15	From Skagit County line (Sec.35, T37N, R5E) downstream to mouth at Nooksack River (Sec.6, T38N, R5E). The 1,000 cfs MAF point begins at mouth of Hutchinson Creek (Sec.9, T37N, R5E).
(25) Orsino Creek	Wickersham 15	From an approximate point (SE1/4 of NW1/4 Sec.9, T37N, R6E) downstream to mouth at Skookum Creek (Sec.16, same township).
(26) Porter Creek	Van Zandt 15	From confluence of Porter Creek and unnamed creek (Sec.12, T38N, R5E) downstream to mouth at Nooksack River M. Fork (Sec.11, same township).
(27) Racehorse Creek	Van Zandt 15	Beginning at north section line (SW1/4 of NE1/4 of Sec.21, T39N, R6E) downstream to mouth at Nooksack River (Sec.10, T39N, R5E).
(28) Rocky Creek	Mt. Baker 15	From Mt. Baker National Forest boundary (Sec.35, T39N, R6E) downstream to mouth at Clearwater Creek (Sec.2, T38N, R6E).
(29) Saar Creek	Van Zandt 15	From an approximate point (NW1/4 of SE1/4 Sec.7, T40N, R5E) downstream to British Columbia-Washington state boundary (Sec.32, T41N, R5E).
(30) Samish River (in flood plain)	Wickersham 15	From confluence of Samish River and unnamed creek (Sec.31, T37N, R5E) downstream to Skagit County line (same section).
(31) Sisters Creek	Hamilton 15 Mt. Baker 15	From Mt. Baker National Forest boundary (Sec.25, T38N, R6E) downstream to mouth at Nooksack River M. Fork (Sec.26, same township).
(32) Skookum Creek	Wickersham 15	From confluence of Hayden Creek and Fish Creek (Sec.22, T37N, R6E) downstream to mouth at Nooksack River South Fork (Sec.27, T37N, R5E).

Stream Name		Quadrangle Name and Size	Legal Description
(33)	Smith Creek (in flood plain)	Lynden 15 Lawrence 7 1/2	From confluence of Smith Creek and unnamed creek (Sec.26, T39N, R4E) downstream to mouth at Nooksack River (Sec.21, same township).
(34)	Squalicum Creek	Lynden 15 Bellingham N. 7 1/2 Ferndale 7 1/2	Beginning where unimproved dirt road crosses Squalicum Creek (Sec.9, T38N, R3E) downstream to mouth at Bellingham Bay (Sec.24, T38N, R2E).
(35)	Sumas River	Lynden 15 Van Zandt 15 Sumas 7 1/2	From confluence of Sumas River and Dale Creek (Sec.4, T39N, R4E) downstream to British Columbia-Washington state boundary (Sec.36, T41N, R4E).
(36)	Tenmile Creek	Lynden 15 Bellingham North 7 1/2 Ferndale 7 1/2 Lynden 7 1/2	From east section line (Sec.17, T39N, R3E) downstream through Barrett Lake to mouth at Nooksack River (Sec.20, T39N, R2E).
(37)	Terrell Creek	Blaine 7 1/2 Birch Point 7 1/2	Beginning at (NE1/4 of SE1/4 of NE1/4 Sec.2, T39N, R1W) downstream to mouth at Birch Bay (Sec.30, T40N, R1E).
(38)	Unnamed tributary flowing to Canada	Mt. Baker 15 Van Zandt 15	From an approximate point (between NW1/4 and NE1/2 Sec.2, T40N, R6E) to downstream to British Columbia-Washington state boundary (Sec.34, T41N, R6E).
(39)	Warm Creek	Mt. Baker 15	From Mt. Baker National Forest boundary (Sec.24, T38N, R6E) downstream to mouth at Nooksack River M. Fk. (Sec.25, same township).
(40)	West Cornell Creek	Mt. Baker 15	From confluence of unnamed creek and West Cornell Creek (Sec.13, T39N, R6E) downstream to mouth at Nooksack River North Fork (Sec.1, same township).
(41)	Whatcom Creek	Bellingham N. 7 1/2	From the outlet of Lake Whatcom (Sec.28, T38N, R3E) downstream to mouth at Bellingham Bay (Sec.30, same township).
(42)	Glacier Creek	Mt. Baker 15	From confluence of Glacier Creek and Davis Creek (Sec.8, T39N, R7E) downstream to mouth at North Fork Nooksack River (Sec.6, same township).
(43)	Padden Creek	Bellingham S. 7 1/2	From confluence of unnamed creek and Padden Creek (NW1/4 Sec.7, T37N, R3E) downstream to mouth on Bellingham Bay (Sec.1, T37N, R2E).
(44)	Anderson Creek	Wickersham 15 Lake Whatcom 7 1/2	From outlet on Mirror Lk. (Sec.30, T37N, R5E) downstream to mouth on Lake Whatcom (Sec.27, T37N, R4E).
(45)	Chuckanut Creek	Bellingham S. 7 1/2	From confluence of unnamed creek and Chuckanut Creek (NW1/4 of SW1/4 Sec.17, T37N, R3E) downstream to mouth at Chuckanut Bay (Sec.13, T37N, R2E).
(46)	Smith Creek	Lake Whatcom 7 1/2	From confluence of unnamed creek and Smith Creek (SE1/4 of SW1/4, Sec.33, T38N, R4E) downstream to mouth on Lake Whatcom (Sec.5, T37N, R4E).

[Order DE 76-14, § 173-18-410, filed 5/3/76; Order 73-14, § 173-18-410, filed 8/27/73; Order DE 72-13, § 173-18-410, filed 6/30/72.]

WAC 173-18-420 Whitman County. Streams

Stream Name		Quadrangle Name and Size	Legal Description
(1)	Hangman Creek (Latah Creek)	Tekoa 7 1/2 Oaksdale 7 1/2 Fairfield 15	From the Washington-Idaho boundary (Sec.29, T20N, R46E) downstream to Whitman-Spokane County line (Sec.4, T29N, R45E).
(2)	Palouse River (S. Fork)	Pullman 7 1/2 Albion 7 1/2 Colfax South 7 1/2 Colfax North 7 1/2	From the confluence of the South Fork of the Palouse River and unnamed creek (Sec.16, T14N, R45E) downstream to mouth at Palouse River (Sec.11, T16N, R43E) in Colfax.
(3)	Palouse River*	Palouse 7 1/2 Elberton 7 1/2 Colfax 7 1/2 Diamond 7 1/2 Endicott 15 La Crosse 15 Benge 15 Starbuck 15	From the Washington-Idaho boundary (Sec.5, T16N, R46E) downstream to Adams County line (Sec.24, T16N, R38E) along Adams and Franklin County lines to mouth at Snake River (Sec.19, T13N, R37E). The flow is 200 cfs MAF at Washington-Idaho boundary.

Stream Name	Quadrangle Name and Size	Legal Description
(4) Pine Creek*	Rosalia 7 1/2 Spangle 15 Malden* 7 1/2 Pine City 7 1/2	From the confluence of Pine Creek and unnamed creek (NW1/4 of Sec.16, T20N, R44E) downstream to mouth at Rock Creek (Sec.15, T20N, R41E), excluding that stretch within Spokane County. This stream has over 300 sq. miles of drainage area ending at mouth of Cache Creek (Sec.23, T20N, R42E).
(5) Rock Creek*	Pine City 7 1/2 Rock Lake 7 1/2 Ewan 7 1/2 Texas Lake 7 1/2 Revere 7 1/2 La Crosse 15	From the confluence of Rock Creek and Pine Creek (Sec.15, T20N, R41E) downstream through Rock Lake to mouth at Palouse River (Sec.5, T16N, R39E) excluding those reaches in Adams County. Over 300 sq. miles drainage area at confluence of Rock Creek and Pine Creek.
(6) Snake River*	Clarkston* 15 Colton 7 1/2 Bishop 7 1/2 Kirby 7 1/2 Almota 7 1/2 Penawawa 15 Hay 15 Starbuck 15	From the Washington-Idaho boundary (Sec.16, T36N, R46E) downstream along the Whitman-Asotin County line and Garfield-Whitman County line and Columbia-Whitman County line to the Franklin County line (Sec.30, T13N, R37E). All of river under federal jurisdiction. This stream has over 200 cfs MAF flow at Washington-Idaho border.
(7) Union Flat Creek*	Ewartsville 7 1/2 Colfax South 7 1/2 Wilcox 7 1/2 Endicott 15 La Crosse* 15	From the confluence of Wilbur Creek and Union Flat Creek (Sec.6, T14N, R44E) downstream to mouth at Palouse River (Sec.35, T16N, R38E). This stream has over 300 sq. miles of drainage area ending at mouth of left bank unnamed tributary (Sec.31, T16N, R39E).

[Order DE 76-14, § 173-18-420, filed 5/3/76; Order 73-14, § 173-18-420, filed 8/27/73; Order DE 72-13, § 173-18-420, filed 6/30/72.]

WAC 173-18-430 Yakima County. Streams

Stream Name	Quadrangle Name and Size	Legal Description
(1) Ahtanum Creek	Tampico 7 1/2 Wiley City 7 1/2 Yakima West 7 1/2 Yakima East 7 1/2	From confluence of North and South Forks of Ahtanum Creek (Sec.17, T12N, R16E) downstream to mouth at Yakima River (Sec.17, T12N, R19E) excluding those reaches within Yakima Indian Reservation.
(2) Ahtanum Creek (N. Fk.)	Foundation Ridge 7 1/2 Pine Mtn. 7 1/2 Tampico 7 1/2	From confluence of Ahtanum Creek North Fork and Ahtanum Creek Middle Fork (Sec.24, T12N, R14E) downstream to mouth at Ahtanum Creek South Fork (Sec.17, T12N, R16E).
(3) Ahtanum Creek (S. Fk.)	Pine Mtn. 7 1/2 Tampico 7 1/2	From confluence of unnamed creek and Ahtanum Creek South Fork (Sec.24, T12N, R15E) downstream to mouth at Ahtanum Creek (left bank only).
(4) Columbia River*	Priest Rapids 15	From the Yakima Firing Center boundary (Sec.3, T13N, R23E) downstream along the Grant-Yakima County line to Benton County line (Sec.12, T13N, R23E). The flow exceeds 200 cfs MAF at Yakima Firing Center boundary.
(5) Cowiche Creek (S. Fork)	Tieton 7 1/2 Naches 7 1/2 Wiley City 7 1/2 Yakima 7 1/2 Selah West 7 1/2	From an approximate point (NW1/4 of NE1/4 Sec.33, T14N, R16E) downstream through Cowiche Creek to mouth at Naches River (Sec.9, T13N, R18E).
(6) Bumping River*	Bumping Lake* 15 Old Scab Mtn. 7 1/2 Cliffdell 7 1/2	From U.S.G.S. gaging station (Sec.23, T16N, R12E) downstream to mouth at Naches and Little Naches rivers (Sec.4, T17N, R14E). Exclude federal lands. The flow is over 200 cfs MAF at U.S.G.S. gaging station.
(7) Little Naches River*	Lester 15 Easton* 15 Cliffdell 7 1/2	From confluence of North Fork and Middle Fork Little Naches River (Sec.36, T19N, R12E) downstream to mouth at Naches River (Sec.4, T17N, R14E). Exclude federal lands. The 200 cfs MAF point begins at confluence with Crow Creek (Sec.30, T18N, R14E).
(8) Naches River*	Cliffdell 7 1/2 Manastash Lake 7 1/2 Nile 7 1/2 Milk Canyon 7 1/2 Tieton 7 1/2 Naches 7 1/2 Selah 7 1/2	From confluence of Little Naches River and Bumping River (Sec.4, T17N, R14E) downstream to mouth at Yakima River (Sec.12, T13N, R18E). Exclude federal lands. The flow is 200 cfs MAF at confluence of Little Naches River and Bumping River.
(9) Rattlesnake Creek*	Meeks Table 7 1/2 Nile 7 1/2	From Snoqualmie National Forest boundary (Sec.6, T15N, R15E) downstream to mouth at Naches River (Sec.3, same township). The flow at Snoqualmie N.F. boundary is 200 cfs MAF.
(10) Tieton River*	Weddle Canyon 7 1/2 Tieton* 7 1/2	From west section line (Sec.29, T14N, R15E) downstream to mouth at Naches River (Sec.35, T15N, R16E). Exclude federal lands. The flow is 200 cfs MAF at west section line (Sec.29, T14N, R15E).

Stream Name	Quadrangle Name and Size	Legal Description
(11) Tieton River (S. Fk.)	White Pass 15 Rimrock Lake 7 1/2	From the south section line (Sec.23, T12N, R12E) downstream to mouth at Rimrock Lake (Sec.7, T13N, R14E). Exclude federal lands.
(12) Yakima River (Cont.)*	Pomona* 7 1/2 Selah 7 1/2 Yakima East 7 1/2 Wapato 7 1/2 Toppenish 7 1/2 Granger N.W. 7 1/2 Granger 7 1/2 Sunnyside 7 1/2 Mabton West 7 1/2 Mabton East 7 1/2 Prosser 7 1/2	From the Kittitas County line (Sec.33, T15N, R19E) downstream, excluding all federal lands and Yakima Indian Reservation, to Benton County line (Sec.7, T8N, R24E). The flow exceeds 200 cfs MAF at Kittitas County line.

[Order DE 76-14, § 173-18-430, filed 5/3/76; Order 73-14, § 173-18-430, filed 8/27/73; Order DE 72-13, § 173-18-430, filed 6/30/72.]

Chapter 173-20 WAC

SHORELINE MANAGEMENT ACT—LAKES CONSTITUTING SHORELINES OF THE STATE

WAC

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173-20-770	Lakes coming under purview of chapter 90.58 RCW—Whatcom County lakes of statewide significance.
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173-20-790	Lakes coming under purview of chapter 90.58 RCW—Whitman County lakes of statewide significance.
173-20-800	Lakes coming under purview of chapter 90.58 RCW—Yakima County lakes.
173-20-810	Lakes coming under purview of chapter 90.58 RCW—Yakima County lakes of statewide significance.
173-20-820	Private lands within the confines of federal lands.

WAC 173-20-010 Purpose. The department of ecology, pursuant to RCW 90.58.300 is designated the state agency responsible for the program of regulation of the shorelines of the state. This chapter delimits the lakes which are classified as shorelines of the state.

[Order DE 72-14, § 173-20-010, filed 6/30/72.]

WAC 173-20-020 Applicability. The provisions of this chapter shall apply statewide.

[Order DE 72-14, § 173-20-020, filed 6/30/72.]

WAC 173-20-030 Definitions. As used herein, the following words and phrases shall have the following meanings:

(1) "Lakes" means all the surface water areas of the state, including reservoirs; except

(a) Lakes less than twenty acres in size;

(b) Streams or rivers (as described in WAC 173-18-030);

(c) Shorelines of statewide significance.

(2) "Lakes of statewide significance" means those lakes, whether natural, artificial or a combination thereof, with a surface acreage of one thousand acres or more measured at the ordinary high-water mark.

[Order DE 72-14, § 173-20-030, filed 6/30/72.]

WAC 173-20-040 Lakes coming under purview of chapter 90.58 RCW. Volumes I and II of the book *Lakes of Washington* by Ernest E. Wolcott and updated information from the United States Geological Survey were used as reference material for this listing.

This listing includes only those lakes coming under purview of chapter 90.58 RCW.

Use designations are taken directly from Lakes of Washington as follows:

R - Recreation-wildlife, general public use, beautification, fishing, etc.

D - Domestic-private use, farm pond, fire protection, stock, garden, etc.

PS - Public supply, municipal use, civic, industrial use, etc.

P - Power hydroelectric.

I - Irrigation.

Acreage given includes only water surface acres and not contiguous wetlands.

[Order DE 73-13, § 173-20-040, filed 8/27/73; Order DE 72-14, § 173-20-040, filed 6/30/72.]

WAC 173-20-044 Review of designations. The department shall review all the designations made herein at least once in every five year period following the effective date of chapter 90.58 RCW or as frequently before then as is deemed advisable by the department, and prepare the necessary revisions to ensure that the designations conform to the policies of chapter 90.58 RCW and of chapter 173-20 WAC in the manner and form prescribed for adoption and amending rules and regulations in chapter 34.04 RCW (the Administrative Procedure Act).

[Statutory Authority: RCW 90.58.120 and 90.58.200. 80-08-053 (Order DE 80-21), § 173-20-044, filed 6/30/80.]

WAC 173-20-046 Conflicts between designations and criteria. In the event that any of the designations set forth in this chapter conflict with the criteria set forth in RCW 90.58.030(2) or in WAC 173-20-030 the criteria shall control. The designation of the lake shall be governed by the criteria.

[Statutory Authority: RCW 90.58.120 and 90.58.200. 80-08-053 (Order DE 80-21), § 173-20-046, filed 6/30/80.]

WAC 173-20-050 Lakes coming under purview of chapter 90.58 RCW—Adams County lakes.

	Location	Section	Name	Area (Acres)		Use
(1)	T15N-R29E	4-SW1/4	Rodeo Lk.	60.0		R
(2)	T15N-R29E	32-B	Linda Lk.	99.2		R
(3)	T16N-R28E	3-A/B	Black Lks.-Upper	24.8		R
(4)	T16N-R29E	16-N	Thread Lk.	29.4		R
(5)	T16N-R29E	29-N	Unnamed Lk.	21.7		R
(6)	T16N-R29E	31-G	Owl Lk.	20.6		R
(7)	T17N-R38E	9-NE1/4	Twelve Mile Lk.	44.8		R
(8)	T17N-R38E	9/16	Twelve Mile Slough	211.2		R
(9)	T19N-R36E	36	Finnel Lk.	30.9		R
(10)	T19N-R37E	15-SW1/4	Hallin Lk.	33.3		R
(11)	T19N-R37E	21-N1/2	Cow Lk.	226.0		R
(12)	T19N-R38E	3-W1/2	Green Lk.	79.7		R
(13)	T19N-R38E	10-M/Na	Unnamed Lk.	26.1		R
(14)	T20N-R37E	1-W1/2	Fourth of July Lk.	74.4	Adams Co.	
				35.9	Lincoln Co.	
				110.3	Total	R
(15)	T20N-R38E	12	Pines Lk. (Alkali Lk)	120.8		R
(16)	T20N-R38E	29	Palm Lk.	88.3		R

[Order DE 76-16, § 173-20-050, filed 5/3/76; Order DE 72-14, § 173-20-050, filed 6/30/72.]

WAC 173-20-060 Lakes coming under purview of chapter 90.58 RCW—Adams County lakes of statewide significance.

Location	Section	Name	Area (Acres)		Use
(1) T20N-R37E	12	Sprague Lk.	1202.9	Adams Co.	
			637.7	Lincoln Co.	
			1840.6	Total	R

[Order DE 72-14, § 173-20-060, filed 6/30/72.]

WAC 173-20-070 Lakes coming under purview of chapter 90.58 RCW—Asotin County lakes. None.

[Order DE 72-14, § 173-20-070, filed 6/30/72.]

WAC 173-20-080 Lakes coming under purview of chapter 90.58 RCW—Asotin County lakes of statewide significance. None.

[Order DE 72-14, § 173-20-080, filed 6/30/72.]

WAC 173-20-090 Lakes coming under purview of chapter 90.58 RCW—Benton County lakes.

	Location	Section	Name	Area (Acres)	Use
(1)	T6N-R31E	5-SW1/4	Mound Pond	34.8	R
(2)	T6N-R31E	7-NE1/4	Yellepit Pond	36.3	R

[Order DE 72-14, § 173-20-090, filed 6/30/72.]

WAC 173-20-100 Lakes coming under purview of chapter 90.58 RCW—Chelan County lakes.

	Location	Section	Name	Area (Acres)	Use
(1)	T21N-R20E	21-B/C	Black Lk. (Spring Hill Reservoir)	28.1	R,I
(2)	T21N-R20E	29-D	Upper Wheeler Res.	36.2	R,I
(3)	T22N-R21E	29-K/Q	Three Lakes Res. (Cortez Lake)	32.9	R,I
(4)	T22N-R21E	33-D	Meadow Lk.	35.7	R,I
(5)	T23N-R16E	10-W1/2	Colchuck Lk.	87.8	R
(6)	T24N-R14E	3-SE1/4	Klonaqua Lks.-Lower	66.0	R,I
(7)	T24N-R14E	3-N/P	Klonaqua Lks.-Upper	67.0	R,I
(8)	T24N-R16E	33-N	Eight Mile Lk. (Res.)	71.6	R
(9)	T26N-R16E	19-A/H	Loch Eileen Lk.	24.8	R
(10)	T26N-R16E	29-L	Chiwaukum Lk.	66.6	R
(11)	T27N-R17E	22-D	Fish Lk.	513.3	R
(12)	T28N-R21E	22-G	Grass Lk.(Dry Lk.)	76.8	R
(13)	T28N-R21E	23-K	Wapato Lk.	185.6	R,I
(14)	T28N-R21E	26-B	Alkali Lk.(Roses Lk)	179.2	R
(15)	T29N-R21E	36-P	Antilon Lk. (Res.)	96.0	R,I
(16)	T24N-R16E	9	Victoria Lk.	26.6	R

[Order DE 76-16, § 173-20-100, filed 5/3/76; Order DE 72-14, § 173-20-100, filed 6/30/72.]

WAC 173-20-110 Lakes coming under purview of chapter 90.58 RCW—Chelan County lakes of statewide significance.

Location	Section	Name	Area (Acres)		Use
(1) T16N-R23E	16/17	Wanapum	440.0	Chelan Co.	
		Dam	1184.0	Douglas Co.	
		Res.	6748.0	Grant Co.	
			6308.0	Kittitas Co.	
			14680.0	Total	
(2) T21N-R22E	5-H/J	Rock Island	1735.0	Chelan Co.	
		Pool	1735.0	Douglas Co.	
			3470.0	Total	R,P
(3) T24N-R20E	35	Entiat Lk.	4930.0	Chelan Co.	
			4930.0	Douglas Co.	
			9860.0	Total	R,P
(4) T27N-R17E	28-L	Wenatchee Lk.	2445.0		R
(5) T27N-R22E	13-J	Chelan Lk.	33104.0		R,I,
(6) T28N-R24E	6/7	Wells Res.	97.0	Chelan Co	P
			4850.0	Douglas Co.	
			4753.0	Okanogan Co.	
			9700.0	Total	P,R

[Order DE 72-14, § 173-20-110, filed 6/30/72.]

WAC 173-20-120 Lakes coming under purview of chapter 90.58 RCW—Clallam County lakes.

	Location	Section	Name	Area (Acres)	Use
(1)	T29N-R14W	20 A/B	Wentworth Lk.	53.8	R
(2)	T30N-R7W	15-G	Aldwell Lk.	320.8	P,R
(3)	T30N-R8W	22-Q	Sutherland Lk.	360.8	R
(4)	T30N-R12W	9-J/K	Beaver Lk.	36.3	R
(5)	T30N-R13W	35-E	Pleasant Lk.	486.0	R
(6)	T30N-R14W	16-L	Dickey Lk.	527.0	R
(7)	T31N-R15W	12-W1/2	Elk Lk.	59.0	R
(8)	T31N-R15W	18-E/M	Seafield Lk.	22.0	R

[Statutory Authority: RCW 90.58.030, 90.58.120 and 90.58.200. 85-09-043 (Order DE 85-05), § 173-20-120, filed 4/15/85; Order DE 76-16, § 173-20-120, filed 5/3/76; Order DE 72-14, § 173-20-120, filed 6/30/72.]

WAC 173-20-130 Lakes coming under purview of chapter 90.58 RCW—Clallam County lakes of statewide significance.

Location	Section	Name	Area (Acres)	Use
T31N-R15W	31-A	Ozette Lk.	7787.0	R

[Statutory Authority: RCW 90.58.030, 90.58.120 and 90.58.200. 85-09-043 (Order DE 85-05), § 173-20-130, filed 4/15/85; Order DE 76-16, § 173-20-130, filed 5/3/76; Order DE 72-14, § 173-20-130, filed 6/30/72.]

WAC 173-20-140 Lakes coming under purview of chapter 90.58 RCW—Clark County lakes.

Location	Section	Name	Area (Acres)	Use
(1) T1N-R3E	2-F/L	Lacamas Lk. (Res.)	315.0	PS,R
(2) T1N-R3E	2-F/L	Round Lk.	32.4	PS,R
(3) T2N-R1E	9-G/H	Unnamed	23.0	R
(4) T4N-R1E	6	Mud Lk.	92.0	R
(5) T4N-R3E	30-E	Battleground Lk.	28.0	R

[Order DE 76-16, § 173-20-140, filed 5/3/76; Order DE 73-13, § 173-20-140, filed 8/27/73; Order DE 72-14, § 173-20-140, filed 6/30/72.]

WAC 173-20-150 Lakes coming under purview of chapter 90.58 RCW—Clark County lakes of statewide significance.

	Location	Section	Name	Area (Acres)		Use
(1)	T6N-R2E	33-J	Merwin Lk.	2400.3	Clark Co.	
			(Res.)	1689.3	Cowlitz Co.	
				4089.6	Total	P,R
(2)	T6N-R4E	32-NE1/4	Yale Res.	2022.4	Clark Co.	
				1779.2	Cowlitz Co.	
			s	3801.6	Total	P,R

[Order DE 73-13, § 173-20-150, filed 8/27/73; Order DE 72-14, § 173-20-150, filed 6/30/72.]

WAC 173-20-160 Lakes coming under purview of chapter 90.58 RCW—Columbia County lakes. None.

[Order DE 72-14, § 173-20-160, filed 6/30/72.]

WAC 173-20-170 Lakes coming under purview of chapter 90.58 RCW—Columbia County lakes of statewide significance. None.

[Order DE 72-14, § 173-20-170, filed 6/30/72.]

WAC 173-20-180 Lakes coming under purview of chapter 90.58 RCW—Cowlitz County lakes.

	Location	Section	Name	Area (Acres)	Use
(1)	T5N-R1E	19-M	Horseshoe Lk.	78.9	R
(2)	T7N-R4E	16	Merrill Lk.	344.0	R
(3)	T8N-R2W	33-SW1/4	Sacajawea Lk.	47.7	R
(4)	T10N-R4E	25-E/F	Fawn Lk.	23.6	R

[Order DE 72-14, § 173-20-180, filed 6/30/72.]

WAC 173-20-190 Lakes coming under purview of chapter 90.58 RCW—Cowlitz County lakes of statewide significance.

	Location	Section	Name	Area (Acres)		Use
(1)	T6N-R2E	33-J	Merwin Lk.	1689.3	Cowlitz Co.	
			(Res.)	2400.3	Clark Co.	
				4089.6	Total	P,R
(2)	T6N-R4E	32-NE1/4	Yale Res.	1779.2	Cowlitz Co.	
				2022.4	Clark Co.	
				3801.6	Total	P,R
(3)	T10N-R1W	36-R	Silver Lk.	2996.0		R

[Order DE 72-14, § 173-20-190, filed 6/30/72.]

WAC 173-20-200 Lakes coming under purview of chapter 90.58 RCW—Douglas County lakes.

	Location	Section	Name	Area (Acres)	Use
(1)	T25N-R25E	12-J/K	Jameson Lk.	331.7	R
(2)	T25N-R25E	12-K/Q	Jameson Pothole	20.6	R
(3)	T25N-R27E	31-N/N	Intermittent	22.8	R
(4)	T26N-R26E	20	Grimes Lk.	124.0	R
(5)	T26N-R27E	33-B/C	Haynes Lk.	50.4	R
(6)	T26N-R27E	34-D	Stallard Lk.	64.0	R
(7)	T28N-R24E	35-NE1/4	Cornell Lk.	37.2	R
(8)	T29N-R27E	17-J/R	Unnamed Lk.	24.2	R
(9)	T29N-R27E	20-A/B	Boot Lk.	36.6	R
(10)	T29N-R28E	22-E/F	Elbow Lk.	25.4	R
(11)	T29N-R29E	2-G/H	Unnamed Lk.	21.8	R
(12)	T29N-R29E	22-H/J	Unnamed Lk.	42.2	R
(13)	T29N-R29E	22-N	Wilson Lk.	34.5	R
(14)	T29N-R30E	7-SW1/4	Smith Lk.	34.1	R
(15)	T30N-R29E	36-A/B	Unnamed Lk.	24.0	R
(16)	T30N-R30E	7-J/K	Black Lk.	36.2	R

[Order DE 77-17, § 173-20-200, filed 9/1/77; Order DE 76-16, § 173-20-200, filed 5/3/76; Order DE 72-14, § 173-20-200, filed 6/30/72.]

WAC 173-20-210 Lakes coming under purview of chapter 90.58 RCW—Douglas County lakes of statewide significance.

Location	Section	Name	Area (Acres)		Use
(1) T16N-R23E	16/17	Wanapum	1184.0	Douglas Co	
		Dam Res.	440.0	Chelan Co.	
			6748.0	Grant Co.	
			6308.0	Kittitas Co.	
			14680.0	Total	
(2) T21N-R22E	5-H/J	Rock Island	1735.0	Douglas Co.	
		Pool	1735.0	Chelan Co.	
			3470.0	Total	R,P
(3) T24N-R20E	35	Entiat Lk.	4930.0	Douglas Co.	
			4930.0	Chelan Co.	
			9860.0	Total	R,P
(4) T28N-R24E	6 & 7	Wells	4850.0	Douglas Co.	
		Reservoir	4753.0	Okanogan Co.	
			97.0	Chelan Co.	
			9700.0	Total	P,R
(5) T29N-R25E	24-S1/2	Rufus Wood Lk.	3900.0	Douglas Co.	P,R
(6) T28N-R29E	22&29	Banks Lk.	24,600.0	Grant Co.	
			300.0	Douglas Co.	
			24,900.0	Total	

[Order DE 76-16, § 173-20-210, filed 5/3/76; Order DE 73-13, § 173-20-210, filed 8/27/73; Order DE 72-14, § 173-20-210, filed 6/30/72.]

WAC 173-20-220 Lakes coming under purview of chapter 90.58 RCW—Ferry County lakes.

	Location	Section	Name	Area (Acres)	Use
(1)	T37N-R32E	27-SW1/4	Mud Lk.	23.0	R
(2)	T37N-R33E	32-N1/2	San Poil Lk.	27.7	R,PS
(3)	T38N-R33E	28-D	Curlew Lk.	869.6	R,I

[Order DE 72-14, § 173-20-220, filed 6/30/72.]

WAC 173-20-230 Lakes coming under purview of chapter 90.58 RCW—Ferry County lakes of statewide significance. None.

[Order DE 72-14, § 173-20-230, filed 6/30/72.]

WAC 173-20-240 Lakes coming under purview of chapter 90.58 RCW—Franklin County lakes.

	Location	Section	Name	Area (Acres)	Use
(1)	T12N-R30E	17-J/R	Clark Pond	49.3	R
(2)	T12N-R30E	20-SE1/4	Unnamed Lk.	26.2	R
(3)	T13N-R29E	5-W1/2	Unnamed Lk.	29.7	R
(4)	T13N-R29E	15-N1/2	Unnamed Lk.	50.0	R
(5)	T13N-R30E	24-L/M	Bailie Pond	22.7	R
(6)	T13N-R30E	34	Mesa Lk.	50.0	R

	Location	Section	Name	Area (Acres)	Use
(7)	T13N-R30E	5-E1/2	Unnamed Lk.	63.0	R
(8)	T13N-R33E	5-N	Sulphur Lk.	22.0	R
(9)	T13N-R34E	4-SE1/4	Kahlotus Lk.	321.0	R
(10)	T14N-R28E	24-NW1/4	Unnamed Lk.	20.0	R
(11)	T14N-R28E	26-NW1/4	Unnamed Lk.	25.0	R
(12)	T14N-R29E	11-N1/2	Unnamed Lk.	71.9	R
(13)	T14N-R29E	11-Q/R	Unnamed Lk.	29.5	R
(14)	T14N-R29E	12	Scootney Lk.	217.0	R
(15)	T14N-R29E	14-E1/2	Unnamed Lk.	50.0	R
(16)	T14N-R29E	23-B	Unnamed Lk.	24.0	R
(17)	T14N-R29E	25-D	Unnamed Lk.	49.6	R
(18)	T14N-R29E	26	Unnamed Lk.	130.0	R
(19)	T14N-R29E	36-S1/2	Unnamed Lk.	20.0	R
(20)	T14N-R30E	14-B	Unnamed Lk.	25.8	R
(21)	T14N-R30E	27-J	Scootney Reservoir	685.0	R,I
(22)	T14N-R30E	27-R	Unnamed Lk.	23.0	R
(23)	T14N-R30E	33-SW1/4	Unnamed Lk.	30.0	R
(24)	T14N-R34E	36-N	Washtucna Lk.	43.4	R

[Order DE 73-13, § 173-20-240, filed 8/27/73; Order DE 72-14, § 173-20-240, filed 6/30/72.]

WAC 173-20-250 Lakes coming under purview of chapter 90.58 RCW—Franklin County lakes of statewide significance. None.

[Order DE 72-14, § 173-20-250, filed 6/30/72.]

WAC 173-20-260 Lakes coming under purview of chapter 90.58 RCW—Garfield County lakes. None.

[Order DE 73-13, § 173-20-260, filed 8/27/73; Order DE 72-14, § 173-20-260, filed 6/30/72.]

WAC 173-20-270 Lakes coming under purview of chapter 90.58 RCW—Garfield County lakes of statewide significance. None.

[Order DE 72-14, § 173-20-270, filed 6/30/72.]

WAC 173-20-280 Lakes coming under purview of chapter 90.58 RCW—Grant County lakes.

	Location	Section	Name	Area (Acres)	Use
(1)	T17N-R26E	8	Frenchman Hills Lk.	800.0	R
(2)	T17N-R26E	5-SW1/4	Sand Lk.	28.4	R
(3)	T18N-R26E	25	Winchester Wasteway Extension	400.0	R
(4)	T17N-R28E	27-NE1/4	Goose Lk.	112.0	R
(5)	T17N-R28E	34-J	Lower Goose Lk.	50.0	R
(6)	T17N-R29E	10-B	Warden Lk.	186.0	R
(7)	T17N-R29E	15-SW1/4	South Warden Lk.	24.0	R
(8)	T17N-R29E	17-P/Q	Susan Lk.	20.0	R
(9)	T17N-R29E	18-P	Soda Lk.	155.0	R,I
(10)	T17N-R29E	22-SW1/4	Virgin Lk.	20.0	R
(11)	T17N-R29E	27-D/E	North Windmill Lk.	22.3	R
(12)	T17N-R29E	28-L/P	Heart Lk.	25.8	R
(13)	T17N-R29E	28-Q	Windmill Lk.	33.8	R
(14)	T17N-R29E	32-B	Long Lk.	74.8	R,I
(15)	T17N-R29E	33-N1/2	Canal Lk.	76.1	R
(16)	T18N-R26E	15-SE1/4	Beda Lk.	34.0	R
(17)	T18N-R25E	30-E1/2	Unnamed Lk.	60.0	R
(18)	T19N-R23E	9	Ancient Lk.	250.0	R
(19)	T19N-R23E	10-R	Stan Coffin Lk.	40.9	R
(20)	T19N-R23E	13	Flat Lk.	98.2	R
(21)	T19N-R23E	15-NE1/4	Quincy Lk.	42.6	R
(22)	T19N-R23E	15-L	Burke Lk.	73.3	R
(23)	T19N-R23E	16	Dusty Lk.	30.0	R
(24)	T19N-R23E	22-C	Evergreen Res.	235.0	R,I
(25)	T19N-R25E T19N-R26E	25-SE1/4 30-SW1/4	Winchester Wasteway Reservoir	660.0	R,I
(26)	T20N-R23E	9-A/H	Crater Lk.	25.0	R
(27)	T20N-R23E	10-L	Babcock Ridge Lk.	20.0	R,I
(28)	T20N-R28E	10-E	Unnamed Lk.	79.4	R
(29)	T18N-R23E	21-NE1/4	Hilltop Lk.	30.8	R
(30)	T21N-R27E	6	Ephrata Lk.	25.0	R
(31)	T21N-R27E	12	South Willow Lk.	39.4	R
(32)	T21N-R27E	12-N1/2	Willow Lk.	23.3	R
(33)	T21N-R27E	16-W1/2	Unnamed Lk.	27.0	R
(34)	T21N-R28E	32-SE1/4	Unnamed Lk.	80.9	R
(35)	T21N-R29E	7-SE1/4	Broken Rock Lakes		
			(1) Northernmost	20.0	R
			(2) Southernmost	40.0	R
(36)	T21N-R30E	20-F	Black Rock Lk.	66.7	R
(37)	T22N-R27E	19	Soap Lk.	840.0	R
(38)	T22N-R28E	2-N	Brook Lk.	427.6	R
(39)	T22N-R28E	8-J	Round Lk.	110.6	R
(40)	T22N-R29E	23-Q/R	Unnamed Lk.	28.7	R
(41)	T23N-R26E	1-NE1/4	Alkali Lk.(Part of Lenore)	308.1	R
(42)	T23N-R26E	35	Little Soap Lk.	99.2	R
(43)	T24N-R27E	15-SW1/4	Park Lk.	341.5	R
(44)	T24N-R27E	29-N	Blue Lk.	536.1	R
(45)	T24N-R28E	6	Dry Falls Lk.	98.9	R
(46)	T24N-R28E	8-M	Deep Lk.	104.3	R
(47)	T25N-R28E	35-E1/2	Table Lk.	20.0	R
(48)	T25N-R28E	33-SW1/4	Lena Lk. (Coulee)	24.8	R
(49)	T27N-R29E	26-SE1/4	Higginbotham Res.	62.0	R,D
(50)	T28N-R30E	25-G/H	Long Lk.	24.8	R
(51)	T16N-R24E	29-SE1/4	Lenice Lk.	80.9	R
(52)	T16N-R24E	29-SW1/4	Merry Lk.	21.8	R
(53)	T16N-R24E	30-S1/2	Nunnally Lk.	37.1	R
(54)	T17N-R28E	16-E1/2	Corral Lk.	80.0	R

[Order DE 73-13, § 173-20-280, filed 8/27/73; Order DE 72-14, § 173-20-280, filed 6/30/72.]

WAC 173-20-290 Lakes coming under purview of chapter 90.58 RCW—Grant County lakes of statewide significance.

	Location	Section	Name	Area (Acres)		Use
(1)	T13N-R23E	2/3	Priest Rapids Dam Reservoir	4540.0	Grant Co.	
				2080.0	Kittitas Co	
				1080.0	Yakima Co.	
				7700.0	Total	P,R
(2)	T16N-R23E	16/17	Wanapum Dam Res.	6748.0	Grant Co.	
				6308.0	Kittitas Co.	
				1184.0	Douglas Co.	
				440.0	Chelan Co.	
				14680.0	Total	-
(3)	T17N-R28E	11	Potholes Res.	28200.0		R,I
(4)	T18N-R28E	5-F	Moses Lk.	6815.2		R,I
(5)	T23N-R26E	35-B/G	Lenore Lk.	1670.0		R
(6)	T23N-R28E	36-NW1/4	Long Lk. Res.	1010.0		R,I
(7)	T25N-R28E	32/33	Banks Lk.	24600.0		R
				300.0	Douglas Co.	
				24900.0	Total	

[Order DE 73-13, § 173-20-290, filed 8/27/73; Order DE 72-14, § 173-20-290, filed 6/30/72.]

WAC 173-20-300 Lakes coming under purview of chapter 90.58 RCW—Grays Harbor County lakes.

	Location	Section	Name	Area (Acres)	Use
(1)	T17N-R5W	17-S1/2	Unnamed	23.0	R
(2)	T17N-R9W	1-SE1/4	Aberdeen Lk.(Res.)	64.0	PS,R
(3)	T17N-R10W	13	Unnamed	76.0	PS
(4)	T17N-R12W	14	Duck Lk.	197.0	R
(5)	T18N-R7W	31-R	Sylvia Lk. (Res.)	31.0	R
(6)	T19N-R10W	30-H	Failor Lk. (Res.)	60.0	R
(7)	T21N-R10W	22-J/R	Unnamed	20.0	R

[Order DE 72-14, § 173-20-300, filed 6/30/72.]

WAC 173-20-310 Lakes coming under purview of chapter 90.58 RCW—Grays Harbor County lakes of statewide significance. None.

[Order DE 72-14, § 173-20-310, filed 6/30/72.]

WAC 173-20-320 Lakes coming under purview of chapter 90.58 RCW—Island County lakes.

	Location	Section	Name	Area (Acres)	Use
(1)	T29N-R2E	24-N1/2	Unnamed Lk.	26.8	R
(2)	T29N-R3E	6-D	Goss Lk.	55.1	R
(3)	T29N-R3E	7-A	Lone Lk.	92.1	R
(4)	T29N-R3E	26	Deer Lk.	82.1	R
(5)	T31N-R1E	6-S1/2	Unnamed Lk.	25.0	R
(6)	T31N-R1E	22	Crockett Lake	500.0	R
(7)	T32N-R3E	30-N	Kristoferson Lk.	25.0	D,R
(8)	T33N-R2E	18-N1/2	Unnamed Lk.	50.0	R
(9)	T34N-R1E	35-NW1/4	Cranberry Lk.	128.1	R

[Order DE 76-16, § 173-20-320, filed 5/3/76; Order 73-13, § 173-20-320, filed 9/12/73 and Order DE 73-13, filed 8/27/73; Order DE 72-14, § 173-20-320, filed 6/30/72.]

WAC 173-20-330 Lakes coming under purview of chapter 90.58 RCW—Island County lakes of statewide significance. None.

[Order DE 72-14, § 173-20-330, filed 6/30/72.]

WAC 173-20-340 Lakes coming under purview of chapter 90.58 RCW—Jefferson County lakes.

	Location	Section	Name	Area (Acres)	Use
(1)	T27N-R1W	1-A/H	Wahl Lk.	22.0	R
(2)	T28N-R1W	6-K/L	Peterson Lk.	22.7	R
(3)	T28N-R1W	18-N1/2	Tarboo Lk.	21.6	R
(4)	T28N-R1W	26-K	Sandy Shore Lk.	36.2	R
(5)	T28N-R2W	12-NW1/4	Crocker Lk.	65.3	R
(6)	T28N-R2W	26-J	Leland Lk.	99.3	R
(7)	T28N-R2W	33-A/B	Lords Lk. (Res.)	56.0	PS,R
(8)	T29N-R1W	9-E1/2	Anderson Lk.	58.7	R
(9)	T29N-R1W	28-L/P	Gibbs Lk.	36.8	R
(10)	T30N-R1W	11-D/E	Kah Tai Lagoon	62.0	R
(11)	T30N-R1W	16-H/J	Unnamed Lk.	21.6	R

[Order DE 72-14, § 173-20-340, filed 6/30/72.]

WAC 173-20-350 Lakes coming under purview of chapter 90.58 RCW—Jefferson County lakes of statewide significance. None.

[Order DE 72-14, § 173-20-350, filed 6/30/72.]

WAC 173-20-360 Lakes coming under purview of chapter 90.58 RCW—King County lakes.

	Location	Section	Name	Area (Acres)	Use
(1)	T20N-R6E	2-A	Bass Lk.	24.0	R
(2)	T20N-R7E	28-N/P	White River Mill Pond	23.0	PS
(3)	T21N-R4E	9-N1/2	Steel Lk.	46.4	R
(4)	T21N-R4E	10-NW1/4	Dolloff Lk.	21.1	R
(5)	T21N-R4E	15-SW1/4	North Lk.	55.2	R
(6)	T21N-R4E	22-K/L	Geneva Lk.	28.8	R
(7)	T21N-R4E	27-A	Killarney Lk.	31.3	R
(8)	T21N-R4E	27-N/P	Fivemile Lk.	38.4	R
(9)	T21N-R5E	23-E1/2	Moneysmith Lk.	22.4	R
(10)	T21N-R6E	4-J	Sawyer Lk.	279.0	R
(11)	T21N-R6E	7-E1/4	Morton Lk.	66.4	R
(12)	T21N-R6E	12-A/H	Twelve Lk.	43.2	R
(13)	T21N-R6E	14-Q	Jones Lk.	22.5	R
(14)	T21N-R7E	29-K/Q	Deep Lk.	39.0	R
(15)	T21N-R8E	13-P/Q	Eagle Lk.	53.2	R
(16)	T21N-R8E	27	Howard Hanson Res.	—	PS,R
(17)	T21N-R10E	7-W1/2	Findley Lks. (1)	22.3	R
(18)	T22N-R4E	3-NW1/4	Angle Lk.	102.3	R
(19)	T22N-R4E	34-NW1/4	Star Lk.	34.4	R
(20)	T22N-R5E	1-A/B	Shady Lk.	21.1	R
(21)	T22N-R5E	5-H/J	Panther Lk.	33.0	R
(22)	T22N-R5E	11-R	Youngs Lk. (Res.)	700.0	PS
(23)	T22N-R5E	27	Meridian Lk.	149.6	R
(24)	T22N-R6E	7-SE1/4	Shadow Lk.	49.6	R
(25)	T22N-R6E	22-M/N	Wilderness Lk.	66.6	R
(26)	T22N-R6E	28-E	Pipe Lk.	52.1	R
(27)	T22N-R6E	29	Lucerne Lk.		R
(28)	T22N-R7E	9-W1/2	Walsh Lk.	105.0	PS
(29)	T22N-R7E	32	Retreat Lk.	52.7	R
(30)	T22N-R8E	11-C	Masonry Pool (Res.)	280.0	PS,P
(31)	T22N-R10E	5-A/B	Mason Lk.	32.6	R
(32)	T23N-R4E	19-M	Burien Lk.	43.7	R
(33)	T23N-R5E	36-NE1/4	Desire Lk.	71.6	R
(34)	T23N-R6E	18-K/Q	Kathleen Lk.	38.5	R
(35)	T23N-R6E	31-E1/2	Spring Lk.	67.9	R
(36)	T23N-R8E	34-SW1/4	Rattlesnake Lk.	112.0	R
(37)	T23N-R10E	2-P/Q	Derrick Lk.	36.9	R
(38)	T23N-R10E	10-SE1/4	Caroline Lk.	59.6	R
(39)	T23N-R10E	11-S1/2	Wildcat Lk.-Upper	53.7	R
(40)	T23N-R10E	19-P	Thompson Lk.	42.7	R
(41)	T23N-R10E	23-N1/2	Kaleetan Lk.	42.8	R
(42)	T23N-R10E	32-H/J	Kulla Kulla Lk.	60.1	R
(43)	T23N-R10E	35-C/D	Tusohatchie Lk. Lower	31.8	R
(44)	T23N-R11E	19	Snow Lk.	159.5	R
(45)	T23N-R12E	11-N1/2	Iceberg Lk.	21.1	R
(46)	T24N-R5E	2-SE1/4	Phantom Lk.	63.2	R
(47)	T24N-R6E	9-N1/2	Pine Lk.	88.3	R
(48)	T24N-R6E	11-B	Beaver Lk. No. 2	61.9	R
(49)	T24N-R7E	10-E1/2	Intermittent Lk.	49.0	R
(50)	T24N-R7E	27-J/R	Alice Lk.	32.6	R
(51)	T24N-R8E	2-D/E	Boyle Lk.	24.0	R
(52)	T24N-R8E	11-M	Klaus Lk.	62.0	R
(53)	T24N-R8E	29-SW1/4	Snoqualmie Mill Pond	66.0	PS,R
(54)	T24N-R9E	8-R	Hancock Lk.	236.2	R
(55)	T24N-R9E	22-SW1/4	S.M.C. Lk.	40.7	R

	Location	Section	Name	Area (Acres)	Use
(56)	T24N-R9E	22-B/G	Moolock Lk.	45.4	R
(57)	T24N-R10E	2-E	Marten Lk.	40.4	R
(58)	T25N-R4E	5-M/N	Green Lk.	255.3	R
(59)	T25N-R4E	17-K	Portage Bay	148.0	R
(60)	T25N-R4E	19-C	Union Lk.	598.0	R
(61)	T25N-R7E	13-B/G	Loop Lk.	35.7	R
(62)	T25N-R7E	19-N1/2	Ames Lk.	79.9	R
(63)	T25N-R7E	22-E1/2	Langlois Lk.	40.0	R
(64)	T25N-R8E	13-P	Black Lk.	25.7	R
(65)	T25N-R8E	35-M	Bridges Lk.	34.0	R
(66)	T25N-R9E	24-E/M	Lock Katrine (Lk.)	51.2	R
(67)	T25N-R9E	25-L/M	Lock Katrine (Lk.) Upper	24.4	R
(68)	T25N-R9E	32-Q	Calligan Lk.	361.0	R
(69)	T25N-R9E	35-N1/2	Phillippa Lk.	121.4	R
(70)	T26N-R6E	7-P	Cottage Lk.	63.1	R
(71)	T26N-R7E	3-M	Margaret Lk. (Res.)	43.8	R
(72)	T26N-R7E	35-NE1/4	Joy Lk.	105.1	R
(73)	T26N-R8E	25-F/G	Lynch Lk.	22.9	R
(74)	T26N-R9E	32-E/M	Tolt Res.	850.0	PS

[Order DE 76-16, § 173-20-360, filed 5/3/76; Order DE 73-13, § 173-20-360, filed 8/27/73; Order DE 72-14, § 173-20-360, filed 6/30/72.]

WAC 173-20-370 Lakes coming under purview of chapter 90.58 RCW—King County lakes of statewide significance.

	Location	Section	Name	Area (Acres)		Use
(1)	T19N-R7E	17-NE1/4	Mud Mtn. Res.	600.0	King Co.	
				600.0	Pierce Co.	
				1200.0	Total	PS,R
(2)	T22N-R8E	12-NE1/4	Chester Morse Lk. Res.	1682.0		PS,P
(3)	T25N-R4E	16-Q	Washington Lk.	22138.0		R
(4)	T25N-R5E	13-K	Sammamish Lk.	4897.3		R

[Order DE 72-14, § 173-20-370, filed 6/30/72.]

WAC 173-20-380 Lakes coming under purview of chapter 90.58 RCW—Kitsap County lakes.

	Location	Section	Name	Area (Acres)		Use
(1)	T22N-R1W	2-E1/2	Wye Lk.	37.9		R
(2)	T22N-R1W	2-E1/2	Carney Lake	18.7	Kitsap Co.	
				20.5	Pierce Co.	
				39.2	Total	R
(3)	T24N-R1E	8-N	Kitsap Lk.	238.4		R
(4)	T24N-R1W	2-H	Wildcat Lk.	111.6		R
(5)	T24N-R1W	26-M	Union River Res.	93.0		PS
(6)	T24N-R1W	31-L	Panther Lk.	74.1	Kitsap Co.	
				30.0	Mason Co.	
				104.1	Total	R
(7)	T24N-R1W	32-C	Mission Lk.	87.7		R
(8)	T24N-R1W	35-Q/R	Twin Lks. (Res.)	21.7		PS
(9)	T24N-R1W	35-Q/R	Tiger Lk.			
(10)	T22N-R1E	10-K/L	Horseshoe Lk.	40.3		R
(11)	T23N-R2E	8-E	Long Lk.	314.0		R
(12)	T25N-R1E	3-S1/2	Island Lk.	42.7		R
(13)	T27N-R2E	21-M	Miller Lk.	25.7		R
(14)	T24N-R1W	5	William Symington			
(15)	T24N-R1W	17	Tahuya Lk.			R
(16)	T24N-R2W	23&26	Three Fingers Pond & Holland Ponds	30.8		R
(17)	T28N-R2E	21	Buck Lk.	22.0		R
(18)	T24N-R2W		Morgan Marsh	95.0		R

[Statutory Authority: RCW 90.58.120 and 90.58.200. 81-13-013 (Order DE 81-17), § 173-20-380, filed 6/11/81; Order DE 76-16, § 173-20-380, filed 5/3/76; Order DE 73-13, § 173-20-380, filed 8/27/73; Order DE 72-14, § 173-20-380, filed 6/30/72.]

WAC 173-20-390 Lakes coming under purview of chapter 90.58 RCW—Kitsap County lakes of statewide significance. None.

[Order DE 72-14, § 173-20-390, filed 6/30/72.]

WAC 173-20-400 Lakes coming under purview of chapter 90.58 RCW—Kittitas County lakes.

Location	Section	Name	Area (Acres)	Use
(1) T17N-R15E	3-A	Manastash Lk.	23.5	R
(2) T20N-R13E	11-F	Easton Lk.	237.6	R,I
(3) T21N-R11E	3-L	Lost Lk.	144.8	R
(4) T21N-R12E	15-NW1/4	Unnamed Lks.	60.0	R
(5) T22N-R13E	2	Cooper Lk.	119.7	R
(6) T23N-R14E	3-NE1/4	Tucquala Lk.	63.0	R

[Order DE 72-14, § 173-20-400, filed 6/30/72.]

WAC 173-20-410 Lakes coming under purview of chapter 90.58 RCW—Kittitas County lakes of statewide significance.

	Location	Section	Name	Area(Acres)		Use
(1)	T15N-R23E	32	Priest Rapids Dam Res.	2080.0	Kittitas Co.	
				4540.0	Grant Co.	
				1080.0	Yakima Co.	
				7700.0	Total	P,R
(2)	T16N-R23E	17	Wanapum Dam Res.	6308.0	Kittitas Co.	
				6748.0	Grant Co.	
				1184.0	Douglas Co.	
				440.0	Chelan Co.	
				14680.0	Total	
(3)	T20N-R14E	10-A	Cle Elum Lk. (Res.)	4810.0		R,I
(4)	T21N-R11E	12-H	Keechelus Lk.	2560.0		R,I
(5)	T21N-R13E	34-N/P	Kachess Lk.	4540.0		R,I

[Order DE 72-14, § 173-20-410,filed 6/30/72.]

WAC 173-20-420 Lakes coming under purview of chapter 90.58 RCW—Klickitat County lakes.

	Location	Section	Name	Area (Acres)	Use
(1)	T2N-R13E	25-E/M	Spearfish Lk.	21.8	R
(2)	T5N-R15E	13-E/M	Carp Lk.	21.6	R
(3)	T6N-R10E	15-E	Trout Lake	110.0	R

[Order DE 73-13, § 173-20-420, filed 8/27/73; Order DE 72-14, § 173-20-420, filed 6/30/72.]

WAC 173-20-430 Lakes coming under purview of chapter 90.58 RCW—Klickitat County lakes of statewide significance. None.

[Order DE 72-14, § 173-20-430, filed 6/30/72.]

WAC 173-20-440 Lakes coming under purview of chapter 90.58 RCW—Lewis County lakes.

	Location	Section	Name	Area (Acres)	Use
(1)	T13N-R1E	30-K/Q	Carlisle Lk.	220.3	R
(2)	T14N-R5E	9-B	Mineral Lk.	277.3	R

[Order DE 72-14, § 173-20-440, filed 6/30/72.]

WAC 173-20-450 Lakes coming under purview of chapter 90.58 RCW—Lewis County lakes of statewide significance.

	Location	Section	Name	Area (Acres)	Use
(1)	T12N-R2E	29-C	Mayfield Res.	2200.0	P,R
(2)	T12N-R3E	10-N	Mossyrock Res.	10200.0	P,R
(3)	T15N-R4E	9-F	Alder Res.	124.0 Lewis Co. 1689.6 Pierce Co. 1117.6 Thurston Co. 2931.2 Total	P,R

[Order DE 76-16, § 173-20-450, filed 5/3/76; Order DE 72-14, § 173-20-450, filed 6/30/72.]

WAC 173-20-460 Lakes coming under purview of chapter 90.58 RCW—Lincoln County lakes.

	Location	Section	Name	Area (Acres)	Use
(1)	T21N-R33E	3-Q/R	Reisenauer Res.	22.0	R,I,PS
(2)	T21N-R33E	12-SE1/4	Sylvan Lk.	550.0	R
(3)	T21N-R38E	36-F	Fourth of July Lk.	35.9 Lincoln Co. 74.9 Adams Co. 110.3 Total	R
(4)	T21N-R39E	10-H/J	Unnamed Lk.	28.9	R
(5)	T21N-R39E	12-N	Fishtrap Lk. (Res.)	172.8 Lincoln Co. 22.8 Spokane Co. 195.6 Total	R
(6)	T21N-R39E	22-L	Intermittent Lk.	93.0	R
(7)	T21N-R39E	25-Q	Downs Lk.	Lincoln Co. 28.8 Spokane 394.6Co. 423.4 Total	R
(8)	T21N-R39E	26-P	Unnamed Lk.	99.0	R
(9)	T21N-R39E	34-N1/2	Intermittent Lk.	60.0	R
(10)	T22N-R31E	28-B	Peterson Lk.	20.5	R
(11)	T22N-R32E	6-NE1/4	Sullivan Lk.	72.4	R
(12)	T22N-R32E	6-SW1/4	Wooley Lk.	23.7	R
(13)	T22N-R32E	12-SW1/4	Pacific Lk.	129.7	R
(14)	T22N-R32E	26-SW1/4	Tule Lk. (Bobs)	126.7	R
(15)	T22N-R33E	4-N1/2	Neves Lk.	25.1	R
(16)	T22N-R39E	22-SE1/4	Ames Lk.	29.1	R
(17)	T22N-R39E	32-N/P	Unnamed Lk.	24.8	R
(18)	T23N-R32E	7-W1/2	Unnamed Lk.	42.2	R
(19)	T23N-R32E	27-SW1/4	Goetz Lk.	36.2	R
(20)	T23N-R33E	13-SE1/4	Coffee Pot Lk.	316.8	R
(21)	T23N-R33E	23-E1/2	Deer Springs Lk.	60.3	R
(22)	T23N-R33E	34-S1/2	Browns Lk.	42.2	R
(23)	T23N-R33E	34-S1/2	Tavares Lk.		
(24)	T23N-R34E	3-D	Twin Lks. - Lower	44.9	R
(25)	T23N-R34E	25-NE1/4	Unnamed Lk.	25.3	R
(26)	T23N-R35E	19-Na	Cormana Lk.	48.3	R
(27)	T24N-R32E	12-NW1/4	Drapers Lk.	34.2	R
(28)	T24N-R33E	31-N1/2	Unnamed Lk.	48.3	R
(29)	T24N-R34E	1-SW1/4	Florence Lk.	33.8	R
(30)	T24N-R34E	15-W1/2	Wills Lk.	22.0	R,D
(31)	T24N-R34E	16-NW1/4	Phillips Lk.	31.2	R
(32)	T24N-R34E	16-S1/2	Unnamed Lk.	40.8	R
(33)	T24N-R34E	22-NW1/4	Meadow Lk.	44.4	R,D
(34)	T24N-R34E	35-NW1/4	Twin Lks. - Upper	39.2	R
(35)	T24N-R35E	3-A/B	Whittaker Lk.	26.1	R
(36)	T24N-R35E	4-SW1/4	Unnamed Lk.	20.0	R
(37)	T24N-R35E	19	Wall Lk.	32.2	R
(38)	T25N-R33E	8-L/M	"H" Lake	26.0	R
(39)	T25N-R33E	17-SW1/4	Wagner Lk.	92.7	R
(40)	T25N-R33E	34-L	Bergeau Lk.	31.0	R
(41)	T25N-R34E	27-SW1/4	Unnamed Lk.	54.3	R
(42)	T25N-R34E	32	Swanson Lk.	63.3	R
(43)	T25N-R34E	33-NW1/4	Swanson Lk.	38.6	R
(44)	T25N-R35E	10-S1/2	Unnamed Lk.	28.8	R
(45)	T25N-R39E	9-SE1/4	Unnamed Lk.	42.2	
(46)	T25N-R39E	10-S1/2	Unnamed Lk.	67.0	R
(47)	T26N-R34E	27-SE1/4	Greenwood Lk.	20.0	D,R
(48)	T26N-R38E	33-SE1/4	Unnamed Lk.	24.0	R
(49)	T27N-R39E	20-B	Little Falls Res.	125.0 Lincoln Co. 125.0 Stevens Co. 250.0 Total	P,R

[Order DE 72-14, § 173-20-460, filed 6/30/72.]

WAC 173-20-470 Lakes coming under purview of chapter 90.58 RCW—Lincoln County lakes of statewide significance.

	Location	Section	Name	Area (Acres)	Use
(1)	T20N-R37E	12	Sprague Lk.	637.7 Lincoln Co. 1202.9 Adams Co. 1840.6 Total	
(2)	T27N-R39E	13-M	Long Lk. (Res.)	100.0 Lincoln Co. 2510.0 Spokane Co. 2410.0 Stevens Co. 5020.0 Total	P,R

[Order DE 72-14, § 173-20-470, filed 6/30/72.]

WAC 173-20-480 Lakes coming under purview of chapter 90.58 RCW—Mason County lakes.

	Location	Section	Name	Area (Acres)	Use
(1)	T19-3W	4	Fawn Lk.		
(2)	T19-R5W	1-E1/2	Lost Lk.	121.6	R
(3)	T19-R5W	8-A/B	Lystair Lk.	30.4	R
(4)	T19-R5W	17	Simpson Lk.	29.4	R
(5)	T19-R5W	28-W1/2	Stump Lk.	23.2	R
(6)	T20N-R2W	5	Phillips Lk.	111.4	R
(7)	T20N-R2W	18	Timber Lk.		
(8)	T20N-R2W	30-H/J	Forbes Lk.	38.4	R
(9)	T20N-R3W	6-SW1/4	Island Lk.	109.0	R
(10)	T20N-R3W	31-K	Isabella Lk.	208.0	R
(11)	T20N-R4W	12-E1/2	Intermittent Lks.	75.0	R
(12)	T20N-R5W	1-E	Hanks Lake	27.0	R
(13)	T20N-R5W	8-N1/2	Nahwatzel Lk.	268.8	R
(14)	T21N-R2W	3-P	Benson Lk.	81.8	R
(15)	T21N-R2W	32-N	Spencer Lk.	220.4	R
(16)	T21N-R3W	28-B	Cranberry Lk.	170.6	R
(17)	T21N-R3W	27	Lk. Limerick		
(18)	T21N-R3W	31-D/E	Intermittent Lk.	20.0	R
(19)	T21N-R5W	21-W1/2	Bingham Lk.	24.0	R
(20)	T22N-R1W	7-H	Devereaux Lk.	100.4	R

	Location	Section	Name	Area (Acres)		Use
(21)	T22N-R1W	19	Unnamed Lk.			
(22)	T22N-R2W	23-R	Prickett Lk.	68.1		R
(23)	T22N-R2W	34-F	Mason Lk.	996.0		R
(24)	T22N-R3W	14-C/D	Maggie Lk.	22.3		R
(25)	T22N-R4W	16-F	Cushman Res. No. 2	70.4		P,R
(26)	T23N-R1W	5	Tiger Lk.	109.1		R
(27)	T23N-R2W	19-S1/2	Wooten Lk.	69.8		R
(29)	T23N-R2W	20-NE1/4	Bennettson Lk.	25.4		R
(30)	T23N-R2W	30-H	Haven Lk.	70.5		R
(31)	T23N-R3W	35-K/Q	Tee Lk.	38.4		R
(32)	T23N-R4W	11-P	Lilliwaup Swamp	225.0		R
(33)	T23N-R4W	12-G/H	Melbourne Lk.	34.1		R
(34)	T23N-R4W	22-NE1/4	Price Lk.	61.8		R
(35)	T24N-R1W	31	Panther Lk.	30.0	Mason Co.	
				74.1	Kitsap Co.	
				104.1	Total	R

[Order DE 72-14, § 173-20-480, filed 6/30/72.]

WAC 173-20-490 Lakes coming under purview of chapter 90.58 RCW—Mason County lakes of statewide significance.

	Location	Section	Name	Area (Acres)	Use
(1)	T22N-R4W	5-L	Cushman Lk. (Res.)	4003.0	P,R

[Order DE 72-14, § 173-20-490, filed 6/30/72.]

WAC 173-20-500 Lakes coming under purview of chapter 90.58 RCW—Okanogan County lakes.

	Location	Section	Name	Area (Acres)	Use
(1)	T29N-R23E	10/15	Alta Lk.	187.4	R
(2)	T31N-R24E	22-B	Rat Lk.	62.7	R,PS
(3)	T33N-R25E	16-G	Leader Lk. (Res.)	159.0	R
(4)	T34N-R21E	8-E	Patterson Lk. (Res.)	142.9	R,I
(5)	T34N-R21E	15-A/H	Twin Lks. (Little)	23.8	R
(6)	T34N-R21E	15-G/K	Twin Lks. (Big)	77.4	R
(7)	T34N-R21E	27-NW1/4	Moccasin Lk.	33.1	R
(8)	T34N-R22E	20-D/E	Davis Lk.	39.3	R
(9)	T34N-R25E	13-E1/2	Green Lk.	44.8	R
(10)	T34N-R26E	7-C	Brown Lk.	61.4	R
(11)	T34N-R26E	10-R	Duck Lk.	29.1	R,I
(12)	T34N-R29E	5-D	Crawfish Lk.	80.4	R
(13)	T35N-R21E	36	Pearrygin Lk. (Res.)	192.0	R,I
(14)	T35N-R25E	4-K/Q	Roberts Lk.	29.8	R
(15)	T35N-R25E	6-K	Salmon Lk.	313.0	R,I
(16)	T35N-R25E	18-NW1/4	Conconully Res.	450.0	R,I
(17)	T35N-R26E	3-P/Q	Booher Lk.	24.8	R
(18)	T35N-R26E	5-S1/2	Medicine Lk.	37.9	R
(19)	T35N-R26E	7-Q/R	Peninsula Lk.	23.4	R
(20)	T35N-R26E	8-N	Horseshoe Lk.	28.7	R
(21)	T35N-R26E	22-NE1/4	Alkali Lk.	46.1	R
(22)	T35N-R26E	28-B	Evans Lk.	26.9	R
(23)	T36N-R25E	22-D	Fish Lk.	102.3	R
(24)	T36N-R27E	30-NW1/4	Unnamed Lk.	22.7	R
(25)	T36N-R28E	21-A/B	Talkire Lk.	26.9	R
(26)	T36N-R30E	19-E/F	Round Lk.	20.3	R
(27)	T36N-R30E	19-G/K	"L" Lk.	21.4	R
(28)	T37N-R25E	2-E	Forde Lk.	23.9	R
(29)	T37N-R25E	13-H/J	Lemanasky Lk.	20.1	R
(30)	T37N-R25E	21-H	Blue Lake (Res.)	186.0	R
(31)	T37N-R26E	25-NW1/4	Aeneas Lk.	60.7	R
(32)	T38N-R25E	35-E/F	Lower Sinlahekin Impoundment	57.7	R
(33)	T38N-R26E	2-Q	Spectacle Lk.	314.8	R,I
(34)	T38N-R27E	17-P	Whitestone Lk. (Res.)	169.6	R,I
(35)	T38N-R28E	2-A/B	Fanchers Dam Res.	20.0	R,D
(36)	T38N-R30E	17-NE1/4	Bonapart Lk.	158.7	R
(37)	T38N-R30E	27-F/L	Walker Lk.	43.5	R
(38)	T38N-R30E	29-C/F	Meadow Lk.	23.7	R
(39)	T39N-R25E	4-R	Chopaka Lk.	148.8	R
(40)	T39N-R26E	24-E	Wannacut Lk.	411.6	R
(41)	T39N-R27E	6-W1/2	Blue Lk.	110.6	R
(42)	T39N-R27E	22-SW1/4	Horseshoe Lk.	59.9	R
(43)	T39N-R27E	27-G/K	Unnamed Lk.	26.1	R
(44)	T39N-R29E	15-NW1/4	Muskrat Lk.	89.6	R
(45)	T40N-R25E	17-J/R	Unnamed Lk.	23.4	R
(46)	T40N-R27E	27-P	Zosels Mill Pond	100.0	R
(47)	T40N-R29E	6-S1/2	Sidley Lk.	108.8	R
(48)	T40N-R29E	8-D	Molson Lk.	20.3	R
(49)	T40N-R29E	26-B/G	Fields Lk.	21.7	R
(50)	T39N-R30E	28-E/M	Lost Lk.	46.8	R

[Order DE 76-16, § 173-20-500, filed 5/3/76; Order 72-14, § 173-20-500, filed 6/30/72.]

WAC 173-20-510 Lakes coming under purview of chapter 90.58 RCW—Okanogan County lakes of statewide significance.

Location	Section	Name	Area (Acres)		Use
(1) T28N-R24E	6/7	Wells Dam Res.	4753.0	Okanogan Co.	
			4850.0	Douglas Co.	
			97.0	Chelan Co.	
			9700.0	Total	P,R
(3) T39N-R25E	13-H	Palmer Lk.	2063.0		R,I
(4) T40N-R27E	22-M	Osoyoos Lk.	2036.0	Okanogan Co.	
			3693.9	British Col.	
			5729.0	Total	R

[Order DE 76-16, § 173-20-510, filed 5/3/76; Order DE 72-14, § 173-20-510, filed 6/30/72.]

WAC 173-20-520 Lakes coming under purview of chapter 90.58 RCW—Pacific County lakes.

	Location	Section	Name	Area (Acres)	Use
(1)	T10N-R11W	4-SW1/4	Breaker Lk.	20.3	R
(2)	T10N-R11W	33-A	Black Lk.	30.0	PS
(3)	T11N-R11W	9-K	Loomis Lk.	150.7	R
(4)	T11N-R11W	21-E1/2	Island Lk.	55.8	R
(5)	T12N-R11W	9-K/Q	Skating Lk.	66.0	R
(6)	T12N-R11W	16-J/R	Espy Lk.	20.0	R

[Order DE 72-14, § 173-20-520, filed 6/30/72.]

WAC 173-20-530 Lakes coming under purview of chapter 90.58 RCW—Pacific County lakes of statewide significance. None.

[Order DE 72-14, § 173-20-530, filed 6/30/72.]

WAC 173-20-540 Lakes coming under purview of chapter 90.58 RCW—Pend Oreille County lakes.

	Location	Section	Name	Area (Acres)	Use
(1)	T30N-R43E	5-K/L	Lost Lk.	22.1	R
(2)	T30N-R43E	8-N	Horseshoe Lk.	128.0	R

	Location	Section	Name	Area (Acres)	Use
(3)	T30N-R43E	9-A	Trout Lk.	94.8	R
(4)	T30N-R43E	32-L	Fan Lk.	72.9	R
(5)	T30N-R44E	3-SE1/4	Diamond Lk.	754.5	R
(6)	T30N-R44E	35-N1/2	Chain Lk.	77.6	R
(7)	T30N-R46E	30-M/N	Trask Pond	50.3	R
(8)	T31N-R43E	35-B	Sacheen Lk.	282.2	R
(9)	T31N-R44E	10-SE1/4	Kent Meadows Lk.	134.3	R
(10)	T31N-R45E	23-S1/2	Unnamed Lk.	37.9	R
(11)	T32N-R43E	27-P	Power Lk.	54.8	R,P
(12)	T32N-R44E	31-G	Davis Lk.	145.9	R
(13)	T32N-R45E	23-Q	Marshall Lk.	188.7	R,D
(14)	T32N-R46E	31	Shearer Lk.	48.7	R
(15)	T33N-R43E	12-13/14	Unnamed Slough	64.8	R
(16)	T34N-R44E	36-NE1/4	North Skookum Lk.	38.5	R
(17)	T33N-R44E	2-A	Kings Lk.	53.2	R
(18)	T34N-R43E	3-C/F	Parker Lk.	22.1	R
(19)	T36N-R42E	3-L/M	Leo Lk.	39.3	R
(20)	T36N-R43E	12-NW1/4	Scotchman Lk.	34.1	R
(21)	T36N-R43E	23-NE1/4	Yocum Lk.	41.7	R
(22)	T37N-R42E	35-N	Nile Lk.	22.8	R
(23)	T37N-R42E	36-K/Q	Browns Lk.	20.2	R
(24)	T37N-R43E	6-E1/2	Ione Mill Pond	37.2	R,PS
(25)	T39N-R43E	25-A	Sullivan Res.	62.8	R,PS
(26)	T40N-R43E	34-Q	Ledbetter Lk.	22.7	R
(27)	T32N-R45E	4	Bead Lk.	719.8	R

[Order DE 76-16, § 173-20-540, filed 5/3/76; Order DE 72-14, § 173-20-540, filed 6/30/72.]

WAC 173-20-550 Lakes coming under purview of chapter 90.58 RCW—Pend Oreille County lakes of statewide significance.

	Location	Section	Name	Area (Acres)	Use
(1)	T32N-R43E	12-F	Calispell Lk.	1031.0	R
(2)	T39N-R44E	31	Sullivan Lk.	1400.0	R,P
(3)	T40N-R43E	10-NE1/4	Boundary Res.	1600.0	R,P

[Statutory Authority: RCW 90.58.030, 90.58.120 and 90.58.200. 85-09-043 (Order DE 85-05), § 173-20-550, filed 4/15/85; Order DE 76-16, § 173-20-550, filed 5/3/76; Order DE 72-14, § 173-20-550, filed 6/30/72.]

WAC 173-20-560 Lakes coming under purview of chapter 90.58 RCW—Pierce County lakes.

	Location	Section	Name	Area (Acres)		Use
(1)	T20N-R1W	1-M	Bay Lk.	129.6		R
(2)	T22N-R1W	14-A	Carney Lk.	20.5	Pierce Co.	
				18.7	Kitsap Co.	
				39.2	Total	R
(3)	T16N-R3E	1-J/K	Cranberry Lk.	25.6		R
(4)	T16N-R3E	7-A/B	Harts Lk.	108.8		R
(5)	T16N-R3E	9-P/Q	Tule Lk.	30.8		R
(6)	T16N-R3E	12-E1/2	Silver Lk.	138.0		R
(7)	T16N-R3E	14-SW1/4	Kreger Lk.	42.4		R
(8)	T16N-R4E	6-A	Rapjohn Lk.	55.8		R
(9)	T16N-R4E	10-J	Ohop Lk.	235.6		R
(10)	T16N-R4E	33-Q	La Grande Res.	55.0		P
(11)	T17N-R4E	14-A/H	Whitman Lk.	29.6		R
(12)	T17N-R4E	23-E	Tanwax Lk.	172.8		R
(13)	T17N-R4E	26-W1/2	Clear Lk.	155.1		R
(14)	T17N-R4E	27-K/L	Twenty Seven Lk.	21.0		R
(15)	T17N-R4E	33-C	Mud Lk.	20.6		R
(16)	T17N-R5E	5-SW1/4	Kapowsin Lk.	512.0		R
(17)	T18N-R2E	34-B/C	Muck Lk.	25.7		R
(18)	T18N-R5E	30-M/N	Morgan Lk.	23.0		R
(19)	T19N-R1E	4-N1/2	Florence Lk.	66.5		R
(20)	T19N-R1E	9-NE1/4	Josephine Lk.	72.5		R
(21)	T19N-R2E	4-E/M	Louise Lk.	39.1		R
(22)	T19N-R2E	10-E1/2	Gravelly Lk.	147.8		R
(23)	T19N-R3E	20-SE1/4	Spanaway Lk.	262.4		R
(24)	T19N-R6E	4-E1/2	Wickersham Basin	60.0		P,R
(25)	T20N-R2E	24-B/G	Unnamed Lk.	29.0		R
(26)	T20N-R2E	33	Waughop Lk.			
(27)	T20N-R2E	33-P/Q	Mud Lake	21.7		R
(28)	T20N-R2E	34-G	Steilacoom Lk.	313.2		R
(29)	T20N-R3E	29-C/F	Wapato Lk.	28.2		R
(30)	T20N-R4E	4-K/Q	Surprise Lk.	29.9		R
(31)	T20N-R5E	26-N1/2	Printz Basin	30.0		P,R
(32)	T22N-R2E	20-A	Crescent Lk.	46.8		R
(33)	T22N-R1E	19	Stansberry Lk.			
(34)	T22N-R1E	30-31	Manmade Lk.			
(35)	T19N-R7E	17-NE1/4	Mud Mt. Res.	600.00		R

[Order DE 72-14, § 173-20-560, filed 6/30/72.]

WAC 173-20-570 Lakes coming under purview of chapter 90.58 RCW—Pierce County lakes of statewide significance.

	Location	Section	Name	Area (Acres)		Use
(1)	T15N-R4E	9-F	Alder Lk. (Res.)	1689.6	Pierce Co.	
				1117.6	Thurston Co.	
				124.0	Lewis Co.	
				2931.2	Total	P,R
(2)	T19N-R2E	20	American Lk.	1125.1		R
(3)	T20N-R5E	8-E	Tapps Lk. (Res.)	2296.0		P,R

[Order DE 72-14, § 173-20-570, filed 6/30/72.]

WAC 173-20-580 Lakes coming under purview of chapter 90.58 RCW—San Juan County lakes.

	Location	Section	Name	Area (Acres)	Use
(1)	T35N-R1W	4-G	Spencer Lk.	64.0	R
(2)	T35N-R2W	23-A	Hummel Lk.	36.1	R
(3)	T35N-R3W	17-Q/R	Zylstra Lk.		
(4)	T35N-R3W	18-M	Trout Lk. (Res.)	54.0	PS
(5)	T35N-R3W	19-G	Woods Res. (Proposed)	29.0	D,R
(6)	T36N-R1W	33-N1/2	Horseshoe Lk.	84.0	R
(7)	T36N-R2W	12-L	Martins Lk.	21.5	R
(8)	T36N-R3W	30-E/M	Briggs Pond	29.1	PS
(9)	T36N-R3W	33-Q	Sportsmans Lk.	66.0	R,D
(10)	T37N-R1W	32-P	Cascade Lk.	171.6	R,P
(11)	T37N-R1W	34-M	Mountain Lk.	198.0	PS,R

[Statutory Authority: RCW 90.58.120 and 90.58.200. 80-08-053(Order DE 80-21), § 173-20-580, filed 6/30/80; Order DE 72-14, § 173-20-580, filed 6/30/72.]

WAC 173-20-590 Lakes coming under purview of chapter 90.58 RCW—San Juan County lakes of statewide significance.

None.

[Order DE 72-14, § 173-20-590, filed 6/30/72.]

WAC 173-20-600 Lakes coming under purview of chapter 90.58 RCW—Skagit County lakes.

	Location	Section	Name	Area (Acres)	Use
(1)	T33N-R4E	13-M/N	Devils Lk.	30.9	R
(2)	T33N-R4E	15-M/N	Sixteen Lk.	41.6	R
(3)	T33N-R5E	30-D	McMurray Lk.	160.6	R
(4)	T33N-R6E	22-Q	Cavanaugh Lk.	844.0	R
(5)	T34N-R1E	11-NE1/4	Erie Lk.	111.0	R
(6)	T34N-R1E	13-H	Campbell Lk.	410.3	R
(7)	T34N-R1E	23-K	Pass Lk.	98.6	R
(8)	T34N-R2E	6-SW1/4	Whistle Lk.	29.7	PS
(9)	T34N-R3E	36-J	Britt Slough	21.0	R
(10)	T34N-R4E	1-E1/2	Clear Lk.	222.9	R
(11)	T34N-R4E	2-N1/2	Unnamed Lk.	74.0	R
(12)	T34N-R4E	10-SW1/4	Barney Lk.	152.0	R
(13)	T34N-R4E	15-E1/2	Unnamed Lk.	28.0	R
(14)	T34N-R4E	36-C	Big Lk.	545.2	R
(15)	T34N-R5E	7-W1/2	Beaver Lk.	73.4	R
(16)	T34N-R6E	25-F	Day Lk.	136.5	R
(17)	T35N-R1E	23-K/Q	Cranberry Lk.	26.8	R
(18)	T35N-R1E	36-SW1/4	Heart Lk.	60.8	R
(19)	T35N-R5E	13-N1/2	Minkler Lk.	36.7	R
(20)	T35N-R5E	32-E1/2	Judy Res.	108.0	PS
(21)	T35N-R10E	31-A	Barnaby Slough	20.0	R
(22)	T35N-R10E	32-L/M	Mill Slough	20.0	R
(23)	T35N-R11E	36-SE1/4	Granite Lk. No. 3	38.4	R
(24)	T36N-R8E	32	Grandy Lk.	56.0	R
(25)	T34N-R2E	12-M	Old Channel Lk.	23.2	

[Statutory Authority: RCW 90.58.120 and 90.58.200. 80-08-053 (Order DE 80-21), § 173-20-600, filed 6/30/80; Order DE 72-14, § 173-20-600, filed 6/30/72.]

WAC 173-20-610 Lakes coming under purview of chapter 90.58 RCW—Skagit County lakes of statewide significance.

	Location	Section	Name	Area (Acres)	Use
(1)	T35N-R8E	2-M	Shannon Lk. (Res.)	2148.0	P,R

[Order DE 72-14, § 173-20-610, filed 6/30/72.]

WAC 173-20-620 Lakes coming under purview of chapter 90.58 RCW—Skamania County lakes.

	Location	Section	Name	Area (Acres)	Use
(1)	T1N-R6E	4-N1/2	Franz Lk.	99.0	R
(2)	T2N-R6E	34-H/J	Unnamed Lk.	20.0	R
(3)	T2N-R7E	1-NW1/4	Stevenson Lk.	84.0	PS,R
(4)	T2N-R7E	11-E/F	Ashes Lk.	51.2	PS,R
(5)	T2N-R7E	14-D/E	Wauna Lk.	55.2	R
(6)	T2N-R7E	20-M	Greenleaf Slough (Lk)	47.8	R
(7)	T2N-R7E	30-NW1/4	Unnamed Lk.	20.0	R
(8)	T3N-R9E	26-S1/2	Drano Lk.	220.0	R
(9)	T3N-R10E	10-B/C	Northwestern Lk.	97.0	R,P
(10)	T10N-R5E	14-N	Venus Lk.	21.0	R
(11)	T10N-R5E	19-E/F	Elk Lk.	30.5	R
(12)	T10N-R5E	19-M/P	Hanaford Lk.	23.6	R

[Order DE 73-13, § 173-20-620, filed 8/27/73; Order DE 72-14, § 173-20-620, filed 6/30/72.]

WAC 173-20-630 Lakes coming under purview of chapter 90.58 RCW—Skamania County lakes of statewide significance.

	Location	Section	Name	Area (Acres)	Use
(1)	T2N-R7E	21-E1/2	Bonneville Pool (Res.)	10100.0 Skamania Co. 10100.0 Oregon	
				20200.0 Total	P,R
(2)	T7N-R5E	28-F/L	Swift Res.	4588.8	P,R
(3)	T9N-R5E	15-A	Spirit Lk.	1262.0	R

[Order DE 73-13, § 173-20-630, filed 8/27/73; Order DE 72-14, § 173-20-630, filed 6/30/72.]

WAC 173-20-640 Lakes coming under purview of chapter 90.58 RCW—Snohomish County lakes.

	Location	Section	Name	Area (Acres)	Use
(1)	T27N-R4E	1-SW1/4	Martha Lk.	59.3	R
(2)	T27N-R4E	32-SW1/4	Ballinger Lk.	103.2	R
(3)	T27N-R5E	36-SE1/4	Crystal Lk. (Res.)	39.1	R
(4)	T27N-R7E	22-A/B	Fontal Lk.	37.2	R
(5)	T27N-R7E	23-SW1/4	Hannan Lk.	48.4	R
(6)	T27N-R8E	21-B/C	Tomtit Lk.	27.9	R
(7)	T27N-R8E	21-E/M	Dagger Lk.	27.7	R
(8)	T27N-R11E	21-NE1/4	Sunset Lk.	38.4	R
(9)	T28N-R4E	34-S1/2	Serene Lk.	42.3	R
(10)	T28N-R4E	35-A/B	Stickney Lk.	25.7	R
(11)	T28N-R5E	24-E1/4	Hanson Slough	35.0	R
(12)	T28N-R5E	30-H	Silver Lk.	102.3	R
(13)	T28N-R5E	32&34	Thomas Lk.	100	PS
(14)	T28N-R6E	1-SE1/4	Storm Lk.	78.1	R
(15)	T28N-R6E	2-A	Flowing Lk.	134.8	R
(16)	T28N-R6E	2-C/D	Panther Lk.	46.7	R
(17)	T28N-R6E	7-NW1/4	Blackmans Lk.	60.1	R
(18)	T28N-R6E	24-A	Chain Lk.	22.8	R
(19)	T28N-R7E	12-J	Woods Lk.	20.5	R
(20)	T28N-R7E	16-A	Cochran Lk.	33.6	R
(21)	T28N-R8E	6-G	Chaplain Lk. (Res.)	443.7	PS
(22)	T28N-R8E	22-G/H	Kellogg Lk.	20.2	R
(23)	T28N-R9E	20-NE1/4	Wallace Lk.	55.3	R
(24)	T28N-R10E	5-G/H	Boulder Lk.	21.7	R
(25)	T28N-R11E	1-W1/2	Blanca Lk.	179.0	R
(26)	T29N-R7E	15-NE1/4	Purdy Creek Ponds	20.0	R
(27)	T29N-R7E	27-N/P	Hughes Lk.	20.2	R
(28)	T29N-R7E	28-E	Roesiger Lk.	352.2	R
(29)	T29N-R8E	21-D	Echo Lk.	24.6	R
(30)	T29N-R9E	9-M/N	East Boardman Lk.	24.7	R
(31)	T29N-R9E	36-J/R	Greider Lks. Upper	58.4	R
(32)	T29N-R10E	4	Copper Lk.	60.8	R
(33)	T30N-R6E	31-C/D	Cassidy Lk.	124.6	R
(34)	T30N-R6E	36-E1/2	Bosworth Lk.	95.4	R
(35)	T31N-R4E	18-SE1/4	Martha Lk.	58.4	R
(36)	T31N-R4E	20-L/P	Howard Lk.	27.1	R
(37)	T31N-R4E	23-L	Ki Lk.	97.4	R
(38)	T31N-R4E	33-G	Goodwin Lk.	546.8	R
(39)	T31N-R4E	33-P	Shoecraft Lk.	136.8	R
(40)	T31N-R4E	34-H	Crabapple Lk.	36.3	R
(41)	T31N-R4E	35-A/H	Loma Lk.	21.1	R
(42)	T32N-R4E	26-K/L	Sunday Lk.	38.7	R
(43)	T32N-R5E	26-SE1/4	Armstrong Lk.	30.7	R
(44)	T32N-R5E	27-F/G	Bryant Lk.	20.2	R
(45)	T32N-R6E	26-C	Little Lk.	23.4	R
(46)	T32N-R7E	19-H/J	Riley Lk.	30.0	R
(47)	T32N-R10E	28	Evangeline Lk.	25.0	

[Statutory Authority: RCW 90.58.200. 98-09-098 (Order 97-40), § 173-20-640, filed 4/22/98, effective 5/23/98; Order DE 76-16, § 173-20-640, filed 5/3/76; Order DE 72-14, § 173-20-640, filed 6/30/72.]

WAC 173-20-650 Lakes coming under purview of chapter 90.58 RCW—Snohomish County lakes of statewide significance.

Location	Section	Name	Area (Acres)	Use
(1) T29N-R6E	8-L	Stevens Lk.	1021.1	R

[Order DE 72-14, § 173-20-650, filed 6/30/72.]

WAC 173-20-660 Lakes coming under purview of chapter 90.58 RCW—Spokane County lakes.

Location	Section	Name	Area (Acres)		Use
(1) T21N-R39E	12-N	Fishtrap Lk.	22.8	Spokane	
		(Res.)	172.8	Lincoln	
			195.6	Total	R
(2) T21N-R39E	25-Q	Downs Lk.	394.6	Spokane Co.	
			28.8	Lincoln Co.	
			423.4	Total	R
(3) T21N-R40E	7-B/C	Unnamed Lk.	21.0		R
(4) T21N-R40E	13-C	Williams Lk.	318.6		R
(5) T21N-R40E	32-NE1/4	Feustal Lk.	36.6		R
(6) T21N-R41E	4-M	Badger Lk.	243.8		R
(7) T21N-R42E	20F	Bonnie Lk.	284.3	Spokane Co.	
			81.8	Whitman Co.	
			366.1	Total	R
(8) T22N-R40E	25-N1/2	Alkali Lk.	96.0		R
(9) T22N-R40E	30-B	Hog Lk.	53.0		R
(10) T22N-R40E	33-S1/2	Mason Lk.	52.1		R
(11) T22N-R40E	36-J	Amber Lk.	116.8		R
(12) T22N-R41E	27-J	Unnamed Lk.	26.0		R
(13) T22N-R41E	36-H	Chapman Lk.	145.6		R
(14) T22N-R42E	11-K	Philleo Lk.	70.8		R
(15) T23N-R42E	5-A/H	Fish Lk.	47.1		R
(16) T23N-R42E	14-NW1/4	Unnamed Lk.	20.0		R
(17) T24N-R40E	13-W1/4	West Medical Lk.	234.8		R
(18) T24N-R40E	21-J/R	Unnamed Lk.	38.0		R
(19) T24N-R40E	27-NW1/4	Lonelyville Lk.	22.8		R
(20) T24N-R41E	17-G/H	Silver Lk.	559.1		R
(21) T24N-R41E	18-W1/2	Medical Lk.	148.9		R
(22) T24N-R41E	19-K/Q	Otter Lk.	26.1		R
(23) T24N-R41E	19-H	Ring Lake	22.9		R
(24) T24N-R41E	22-N/P	Granite Lk.	105.8		R
(25) T24N-R41E	22-P	Willow Lk.	79.7		R
(26) T24N-R41E	26-B	Meadow Lk.	31.9		R
(27) T24N-R41E	30-SW1/4	Clear Lk.	374.8		R,I
(28) T24N-R42E	28-B	Queen Lucas Lk.	36.8		R
(29) T25N-R43E	18-J	Upper Falls Res.	146.0		P,R
(30) T25N-R44E	24-F/G	Shelley Lk.	35.6		R
(31) T25N-R45E	22-H	Liberty Lk.	711.4		R
(32) T26N-R40E	10-SW1/4	Horseshoe Lk.	67.9		R
(33) T26N-R40E	10-G/K	Woods Lk.	32.0		R
(34) T26N-R42E	6-R	Nine Mile Res.	440.0		P,R
(35) T27N-R41E	7-K/L	Knight Lk.	34.0		R
(36) T28N-R43E	15-G/K	Bear Lk.	33.8		R
(37) T29N-R42E	34-K/Q	Dragoon Lk.	22.4		R,I
(38) T29N-R43E	15-L	Eloika Lk.	659.2		R
(39) T29N-R44E	19-J	Reflection Lk.	51.8		R

[Order DE 76-16, § 173-20-660, filed 5/3/76; Order DE 72-14, § 173-20-660, filed 6/30/72.]

WAC 173-20-670 Lakes coming under purview of chapter 90.58 RCW—Spokane County lakes of statewide significance.

Location	Section	Name	Area (Acres)	Use
(1) T26N-R45E	11-G	Newman Lk.	1190.2	R
(2) T27N-R39E	13-M	Long Lk. (Res.)	2510.0 Spokane Co.	
			100.0 Lincoln Co.	
			2410.0 Stevens Co.	
			5020.0 Total	P,R

[Order DE 72-14, § 173-20-670, filed 6/30/72.]

WAC 173-20-680 Lakes coming under purview of chapter 90.58 RCW—Stevens County lakes.

Location	Section	Name	Area (Acres)	Use
(1) T27N-R39E	20-B	Little Falls Res.	125.0	P,R
(2) T30N-R37E	4-Q/R	Hunter Res.	20.0	D,I,R
(3) T30N-R37E	32-F/L	Newbill Lk.	21.7	R,D
(4) T31N-R40E	17-R	Waitts Lk.(Res.)	455.4	R,P,I
(5) T31N-R40E	36-R	Jumpoff Lk.	105.1	R
(6) T31N-R41E	21-R	Beitey Res.	24.2	D,R
(7) T31N-R41E	24-A/H	Nelson Lk.	20.4	R
(8) T32N-R37E	34-P/Q	Clark Lk.	23.8	R
(9) T32N-R39E	36-NW1/4	Rainbow Lk. (Fourmile Lk.)	27.8	R
(10) T32N-R41E	15-L	Horseshoe Lk.	23.5	R
(11) T32N-R41E	29	Bailey Lk.		
(12) T34N-R41E	20-K/Q	Pond No. 1	24.0	R
(13) T35N-R40E	19-F/L	White Mud Lk.	59.4	R
(14) T35N-R40E	30-SE1/4	Hatch Lk.	34.3	R
(15) T35N-R40E	36-K	Starvation Lk.	28.4	R
(16) T35N-R41E	3-W1/2	Black Lk.	69.6	R
(17) T35N-R41E	4-B	Spruce Lk. (Twin Lks.)	26.8	R
(18) T36N-R38E	15-D/E	Mission Lk.	21.9	R
(19) T36N-R42E	8-Q	Heritage Lk.	71.1	R
(20) T36N-R42E	17-W1/2	Thomas Lk.	162.6	R
(21) T36N-R42E	19-A	Gillette Lk.	48.0	R
(22) T36N-R42E	19-H/J	Sherry Lk.	26.1	R
(23) T37N-R39E	16-F	Peterson Swamp	37.8	R
(24) T38N-R37E	13-J/K	Dilly Lk.	35.4	R
(25) T38N-R37E	13-L/M	Perkins Lk.	25.6	R
(26) T38N-R37E	24-D	Ryan Lk.	25.4	R
(27) T38N-R38E	36-C/F	Williams Lk.	37.7	R
(28) T39N-R37E	8-G	Pierre Lk.	105.6	R
(29) T39N-R41E	34-C	Deep Lk.	198.1	R
(30) T40N-R41E	26-L	Cedar Lk.	51.2	R

[Order DE 77-17, § 173-20-680, filed 9/1/77; Order DE 72-14, § 173-20-680, filed 6/30/72.]

WAC 173-20-690 Lakes coming under purview of chapter 90.58 RCW—Stevens County lakes of statewide significance.

Location	Section	Name	Area (Acres)	Use
(1) T27N-R39E	13-M	Long Lk. (Res.)	2410.0 Stevens Co.	
			2510.0 Spokane Co.	
			100.0 Lincoln Co.	
			5020.0 Total	P,R
(2) T30N-R41E	NE1/4	Deer Lk.	1162.8	R
(3) T30N-R41E	33-L	Loon Lk.	1118.5	R,I

[Order DE 72-14, § 173-20-690, filed 6/30/72.]

WAC 173-20-700 Lakes coming under purview of chapter 90.58 RCW—Thurston County lakes.

	Location	Section	Name	Area (Acres)	Use
(1)	T16N-R1W	13-E	McIntosh Lk.	115.8	R
(2)	T16N-R2W	3-NE1/4	Deep Lk.	66.1	R
(3)	T17N-R1W	28-K	Bushman Lk. (Tempo)	40.0	R
(4)	T17N-R1W	33-E	Offutt Lk.	192.0	R
(5)	T17N-R2W	1-L/P	Munn Lk.	29.8	R
(6)	T17N-R2W	33-A/H	Scott Lake	66.8	R
(7)	T17N-R2W	35-H/J	Pitman Lk.	27.0	R
(8)	T18N-R1W	22-H	Long Lk.	311.0	R
(9)	T18N-R1W	27-L	Hicks Lk.	171.3	R
(10)	T18N-R1W	29-B/G	Chambers Lk. (Little Chambers Lk.)	49.1	R
(11)	T18N-R1W	29-C	Chambers Lk. (Russel Lk.)	72.5	R
(12)	T18N-R1W	33-H/J	Southwick Lk.	37.1	R
(13)	T18N-R1W	35-P	Patterson Lk.	257.0	R
(14)	T18N-R2W	15-J	Capitol Lk.	306.0	R
(15)	T18N-R2W	16-W1/2	Grass Lk.	120.0	R
(16)	T18N-R2W	20-H/J	Ken Lk.	24.6	R
(17)	T18N-R2W	22-G	Percival Lk.	22.4	R
(18)	T18N-R2W	32-C	Black Lk.	576.1	R
(19)	T18N-R2W	36-B/C	Ward Lake	66.8	R
(20)	T18N-R2W	36-J	Hewitt Lk.	26.6	R
(21)	T18N-R4W	13-A	Summit Lk.	522.6	R
(22)	T16N-R2E	29-B	Lawrence Lk.	339.2	R
(23)	T16N-R3E	31-S1/2	Clear Lk.	172.8	R
(24)	T16N-R3E	32-B/C	Elbow Lk.	36.0	R
(25)	T16N-R3E	32-R	Bald Hill Lk.	44.8	R
(26)	T18N-R1E	31-32	St. Clair Lk.	244.7	R
(27)	T17N-R1W	11	Sunwood Lk.	23.0	D
(28)	T15N-R1E	17	Skookumchuck Res.	550.0	D

[Statutory Authority: RCW 90.58.030, 90.58.120 and 90.58.200. 85-09-043 (Order DE 85-05), § 173-20-700, filed 4/15/85; Order DE 73-13, § 173-20-700, filed 8/27/73; Order DE 72-14, § 173-20-700, filed 6/30/72.]

WAC 173-20-710 Lakes coming under purview of chapter 90.58 RCW—Thurston County lakes of statewide significance.

	Location	Section	Name	Area(Acres)	Use
(1)	T15N-R4E	24	Alder Lk. (Res.)	1117.6	P,R

[Order DE 72-14, § 173-20-710, filed 6/30/72.]

WAC 173-20-720 Lakes coming under purview of chapter 90.58 RCW—Wahkiakum County lakes. None.

[Order DE 72-14, § 173-20-720, filed 6/30/72.]

WAC 173-20-730 Lakes coming under purview of chapter 90.58 RCW—Wahkiakum County lakes of statewide significance. None.

[Order DE 72-14, § 173-20-730, filed 6/30/72.]

WAC 173-20-740 Lakes coming under purview of chapter 90.58 RCW—Walla Walla County lakes.

	Location	Section	Name	Area (Acres)	Use
(1)	T7N-R32E	30-SW1/4	Johnson Pond	24.0	R
(2)	T7N-R36E	23-SE1/4 24-W1/2 25-NW1/4	Mill Creek Res.	52.0	PS,R
(3)	T8N-R31E	20-NW1/4	"J" Line Pond	30.0	R
(4)	T8N-R31E	21-NW1/4	Casey Pond	60.0	R
(5)	T8N-R31E	29-H/J	Curlew Pond	35.0	R

[Order DE 72-14, § 173-20-740, filed 6/30/72.]

WAC 173-20-750 Lakes coming under purview of chapter 90.58 RCW—Walla Walla County lakes of statewide significance. None.

[Order DE 72-14, § 173-20-750, filed 6/30/72.]

WAC 173-20-760 Lakes coming under purview of chapter 90.58 RCW—Whatcom County lakes.

	Location	Section	Name	Area (Acres)	Use
(1)	T37N-R3E	8-N	Padden Lk. (Res.)	152.0	PS,R
(2)	T37N-R3E	36-R	Samish Lk.	814.0	R
(3)	T37N-R4E	8-F/L	Louise Lk.	22.4	R
(4)	T37N-R4E	32-SW1/4	Cain Lk.	72.2	R
(5)	T38N-R3E	11-N/P	Toad Lk.	29.7	R
(6)	T38N-R4E	7-E/F	Squalicum Lk.	33.0	R
(7)	T39N-R1E	16	Terrell Lk. (Res.)	438.0	R
(8)	T39N-R2E	21-S1/2	Barrett Lk.	40.0	R
(9)	T39N-R2E	32-A/B	Tennant Lk.	43.0	R
(10)	T39N-R3E	6-NW1/4	Wiser Lk.	123.0	R
(11)	T39N-R3E	13-L/P	Fazon Lk.	32.0	R
(12)	T39N-R6E	30-R	Canyon Lk.	45.0	R
(13)	T40N-R6E	7-R	Silver Lk.	172.8	R
(14)	T41N-R4E	31-W1/2	Judson Lk.	112.0	R
(15)	T41N-R1E	34-N1/2	Beaver Lk.	21.0	R

[Order DE 76-16, § 173-20-760, filed 5/3/76; Order DE 72-14, § 173-20-760, filed 6/30/72.]

WAC 173-20-770 Lakes coming under purview of chapter 90.58 RCW—Whatcom County lakes of statewide significance.

	Location	Section	Name	Area (Acres)	Use
(1)	T38N-R3E	28-A	Whatcom Lk. (Res.)	5003.0	PS,R
(2)	T37N-R9E	31	Baker Lk. (Res.)	3616.0	PS,R

[Order DE 76-16, § 173-20-770, filed 5/3/76; Order DE 72-14, § 173-20-770, filed 6/30/72.]

WAC 173-20-780 Lakes coming under purview of chapter 90.58 RCW—Whitman County lakes.

	Location	Section	Name	Area (Acres)	Use
(1)	T18N-R39E	26-A/B	Texas Lk.	23.8	R
(2)	T18N-R40E	17-A/B	Intermittant Lk.	24.8	R
(3)	T19N-R40E	1-SE1/4	Miller Lk. (Alkali)	25.2	R
(4)	T19N-R40E	13-SE1/4	Lavista Lk.	20.7	R
(5)	T19N-R40E	23-NW1/4	Unnamed Lk.	32.4	R
(6)	T19N-R40E	34-H/J	Stevens Lk.	27.0	R
(7)	T20N-R39E	6-E1/2	Snyder Slough	42.0	R
(8)	T20N-R39E	8-SE1/4	Sheep Lk.	56.7	R
(9)	T20N-R39E	15-S1/2	Folsom Lk.	85.5	R
(10)	T20N-R39E	16-NE1/4	Crooked Knee Lk.	83.8	R
(11)	T20N-R39E	16-F/L	Unnamed Lk.	20.7	R
(12)	T20N-R40E	36-SE1/4	Tule Lk.	21.6	R
(13)	T20N-R41E	12-NE1/4	Bonnie Lk.	81.8 Whitman Co. 284.3 Spokane Co. 366.1 Total	R
(14)	T18N-R40E	3-B/C	Duck Lk.	23.4	R

[Order DE 76-16, § 173-20-780, filed 5/3/76; Order DE 72-14, § 173-20-780, filed 6/30/72.]

WAC 173-20-790 Lakes coming under purview of chapter 90.58 RCW—Whitman County lakes of statewide significance.

	Location	Section	Name	Area (Acres)	Use
(1)	T19N-R40E	13-N	Rock Lk.	2147.1	R

[Order DE 72-14, § 173-20-790, filed 6/30/72.]

WAC 173-20-800 Lakes coming under purview of chapter 90.58 RCW—Yakima County lakes.

	Location	Section	Name	Area (Acres)	Use
(1)	T8N-R23E	12-E	Byron Ponds (Res.)	50.0	R
(2)	T9N-R22E	22-M	Horseshoe Pond	59.0	R
(3)	T9N-R22E	25-F	Morgan Pond	24.6	R
(4)	T9N-R22E	26-B	Giffin Lk.	104.8	R
(5)	T9N-R23E	7-S1/2	Oleys Lk.	35.4	R
(6)	T13N-R19E	7-M	Freeway Lk.	23.2	R
(7)	T14N-R19E	31-L/P	Unnamed Lk.	22.3	R
(8)	T15N-R17E	2-N	Wenas Lk. (Res.)	61.4	R,I
(9)	T13N-R18E	11-S1/2, S1/2	Unnamed Lake	21.4	R
(10)	T13N-R18E	11 S 1/2 SE1/4	Unnamed Lake	21.3	R

[Order DE 76-16, § 173-20-800, filed 5/3/76; Order DE 72-14, § 173-20-800, filed 6/30/72.]

WAC 173-20-810 Lakes coming under purview of chapter 90.58 RCW—Yakima County lakes of statewide significance.

	Location	Section	Name	Area (Areas)	Use
(1)	T13N-R23E	2/3	Priest Rapids Dam (Res.)	1080.0 Yakima Co. 4540.0 Grant Co. 2080.0 Kittitas Co. 7700.0 Total	P,R

[Order DE 72-14, § 173-20-810, filed 6/30/72.]

WAC 173-20-820 Private lands within the confines of federal lands. In addition to the delimitations contained herein, lakes or portions thereof which are located on nonfederal lands within the exterior boundaries of federal lands, which lakes fall within the definitions of lakes and lakes of statewide significance, as stated in WAC 173-20-030, shall be likewise subject to the jurisdiction of chapter 90.58 RCW.

[Order DE 72-14, § 173-20-820, filed 6/30/72.]

Chapter 173-22 WAC

ADOPTION OF DESIGNATIONS OF SHORELANDS AND WETLANDS ASSOCIATED WITH SHORELINES OF THE STATE

WAC

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173-22-015 Relationship to National Coastal Zone Management Act of 1972. [Order DE 73-11, § 173-22-015, filed 7/20/73.] Repealed by 97-04-076 (Order 96-12), filed 2/5/97, effective 3/8/97. Statutory Authority: RCW 90.58.140(3) and [90.58].200.

Reviser's note: Order 73-24, filed 8/28/73 amends maps of wetlands associated with shorelines of the state of Washington and is to be used in conjunction with Administrative Order 73-11, filed 7/20/73. Sections within this chapter will show this date where applicable. The maps are listed by county and are entitled "Shoreline Management Act of 1971, chapter 90.58 RCW amendment to the wetland designations of the state of Washington—chapter 173-22 WAC—Department of ecology—September 1973."

Order DE 77-18, filed 9/20/77 amends chapter 173-22 WAC, regarding designations of associated wetlands which constitute shorelines of the state and are subject to the Shoreline Management Act of 1971 as defined by RCW 90.58.030 (c), (d), (e), (f) and (g).

Order DE 78-15, filed 8/15/78 designating associated wetlands in San Juan County, consists of maps omitted from publication in the Washington Administrative Code under the authority of RCW 34.04.050(3) as being unduly cumbersome to publish. Copies of the maps may be obtained from the Department of Ecology, St. Martin's College, Lacey, Washington 98504.

WAC 173-22-010 Purpose. Pursuant to RCW 90.58.030 (2)(f), the department of ecology herein designates the wetland areas associated with the streams, lakes and tidal waters which are subject to the provisions of chapter 90.58 RCW.

[Order DE 72-15, § 173-22-010, filed 6/30/72.]

WAC 173-22-020 Applicability. The provisions of this chapter shall apply state wide.

[Order DE 72-15, § 173-22-020, filed 6/30/72.]

WAC 173-22-030 Definitions. As used herein, the following words have the following meanings:

(1) "Associated wetlands" means those wetlands which are in proximity to and either influence or are influenced by tidal waters or a lake or stream subject to the Shoreline Management Act;

(2) "Atypical situation" as used herein, refers to areas in which one or more parameters (vegetation, soil, and/or hydrology) have been sufficiently altered by recent human activities or natural events to preclude the presence of wetland indicators of the parameter. Recent refers to the period of time since legal jurisdiction of an applicable law or regulation took effect;

(3) "Duration (inundation/soil saturation)" means the length of time during which water stands at or above the soil surface (inundation), or during which the soil is saturated. As used herein, duration refers to a period during the growing season;

(4) "Flood plain" is synonymous with one hundred-year floodplain and means that land area susceptible to being inundated by stream derived waters with a one percent chance of being equaled or exceeded in any given year. The limit of this area shall be based upon flood ordinance regulation maps or a reasonable method which meets the objectives of the act;

(5) "Floodway" means those portions of the area of a river valley lying streamward from the outer limits of a watercourse upon which flood waters are carried during periods of flooding that occur with reasonable regularity, although not necessarily annually, said floodway being identified, under normal condition, by changes in surface soil conditions or changes in types or quality of vegetative ground cover condition. The floodway shall not include those lands that can reasonably be expected to be protected from flood waters by flood control devices maintained by or maintained under license from the federal government, the state, or a political subdivision of the state. The limit of the floodway is that which has been established in flood regulation ordinance maps or by a reasonable method which meets the objectives of the act;

(6) "Growing season" means the portion of the year when soil temperatures at 19.7 inches below the soil surface are higher than biologic zero (5°C);

(7) "Hydrophytic vegetation" means the sum total of macrophytic plant life growing in water or on a substrate that is at least periodically deficient in oxygen as a result of excessive water content. When hydrophytic vegetation comprises a community where indicators of hydric soils and wetland hydrology also occur, the area has wetland vegetation;

(8) "Hydric soil" means soil that formed under conditions of saturation, flooding, or ponding long enough during the growing season to develop anaerobic conditions in the upper part;

(9) "Lake" means a body of standing water in a depression of land or expanded part of a river, including reservoirs, of twenty acres or greater in total area. A lake is bounded by the ordinary high water mark or, where a stream enters a lake, the extension of the elevation of the lake's ordinary high water mark within the stream;

(10) "Long duration" means a period of inundation from a single event that ranges from seven days to one month.

(11) "Ordinary high water mark" on all lakes, streams, and tidal water is that mark that will be found by examining the bed and banks and ascertaining where the presence and action of waters are so common and usual, and so long continued in all ordinary years, as to mark upon the soil a character distinct from that of the abutting upland, in respect to vegetation as that condition exists on June 1, 1971, as it may naturally change thereafter, or as it may change thereafter in accordance with permits issued by a local government or the department. The following criteria clarify this mark on tidal waters, lakes, and streams:

(a) Tidal waters.

(i) In high energy environments where the action of waves or currents is sufficient to prevent vegetation establishment below mean higher high tide, the ordinary high water mark is coincident with the line of vegetation. Where there is no vegetative cover for less than one hundred feet parallel to the shoreline, the ordinary high water mark is the average tidal elevation of the adjacent lines of vegetation. Where the ordinary high water mark cannot be found, it is the elevation of mean higher high tide;

(ii) In low energy environments where the action of waves and currents is not sufficient to prevent vegetation establishment below mean higher high tide, the ordinary high water mark is coincident with the landward limit of salt tolerant vegetation. "Salt tolerant vegetation" means vegetation which is tolerant of interstitial soil salinities greater than or equal to 0.5 parts per thousand;

(b) Lakes. Where the ordinary high water mark cannot be found, it shall be the line of mean high water;

(c) Streams. Where the ordinary high water mark cannot be found, it shall be the line of mean high water. For braided streams, the ordinary high water mark is found on the banks forming the outer limits of the depression within which the braiding occurs;

(12) "Prevalent vegetation" means the plant community or communities that occur in an area during a given period. The prevalent vegetation is characterized by the dominant macrophytic species that comprise the plant community;

(13) "River delta" means those lands formed as an aggradational feature by stratified clay, silt, sand and gravel deposited at the mouths of streams where they enter a quieter body of water. The upstream extent of a river delta is that limit where it no longer forms distributary channels;

(14) "Shorelands" or "shoreland areas" means those lands extending landward for two hundred feet in all directions as measured on a horizontal plane from the ordinary high water mark; floodways and contiguous floodplain areas landward two hundred feet from such floodways; and all wetlands and river deltas associated with the streams, lakes, and tidal waters which are subject to the provisions of this chapter; the same to be designated as to location by the department of ecology. Any county or city may determine that portion of a one-hundred-year-flood plain to be included in its master program as long as such portion includes, as a mini-

mum, the floodway and the adjacent land extending landward two hundred feet therefrom;

(15) A "stream" is a naturally occurring body of periodic or continuously flowing water where:

(a) The mean annual flow is greater than twenty cubic feet per second; and

(b) The water is contained within a channel. A channel is an open conduit either naturally or artificially created. This definition does not include artificially created irrigation, return flow, or stockwatering channels;

(16) "Tidal water" includes marine and estuarine waters bounded by the ordinary high water mark. Where a stream enters the tidal water, the tidal water is bounded by the extension of the elevation of the marine ordinary high water mark within the stream;

(17) "Typically adapted" is a term that refers to a species being normally or commonly suited to a given set of environmental conditions, due to some feature of its morphology, physiology, or reproduction;

(18) "Very long duration" means a period of inundation from a single event that is greater than one month.

(19) "Wetlands" or "wetland areas" means 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. Wetlands generally include swamps, marshes, bogs and similar areas. Wetlands do not include those artificial wetlands intentionally created from nonwetland sites, including, but not limited to, irrigation and drainage ditches, grass-lined swales, canals, detention facilities, wastewater treatment facilities, farm ponds, and landscape amenities, or those wetlands created after July 1, 1990, that were unintentionally created as a result of the construction of a road, street, or highway. Wetlands may include those artificial wetlands intentionally created from nonwetland areas to mitigate the conversion of wetlands; and

(20) The definitions set forth in chapter 90.58 RCW shall also apply as used herein.

[Statutory Authority: RCW 90.58.140(3) and [90.58].200. 97-04-076 (Order 96-12), § 173-22-030, filed 2/5/97, effective 3/8/97. Statutory Authority: Chapter 90.58 RCW. 86-12-011 (Order 86-06), § 173-22-030, filed 5/23/86. Statutory Authority: RCW 90.58.030 (2)(f), 90.58.120, and 90.58.200. 80-08-086 (Order DE 80-22), § 173-22-030, filed 7/2/80; Order DE 73-11, § 173-22-030, filed 7/20/73; Order DE 72-15, § 173-22-030, filed 6/30/72.]

WAC 173-22-035 Wetland identification and delineation. Identification of wetlands and delineation of their boundaries pursuant to this chapter shall be done in accordance with the criteria and indicators listed in WAC 173-22-080. These criteria and indicators along with recommended methods and additional background information can be found in the Washington State Wetland Identification and Delineation Manual, Ecology Publication # 96-94.

[Statutory Authority: RCW 90.58.140(3) and [90.58].200. 97-04-076 (Order 96-12), § 173-22-035, filed 2/5/97, effective 3/8/97.]

WAC 173-22-040 Shoreland area designation criteria. The following criteria contain the standards for the department's designation of shoreland areas associated with shorelines of the state which are subject to the jurisdiction of chapter 90.58 RCW:

(1) Tidal waters. The shoreland area shall include:

(a) Those lands which extend landward two hundred feet as measured on a horizontal plane from the ordinary high water mark; and

(b) Those wetlands which are in proximity to and either influence or are influenced by the tidal water. This influence includes but is not limited to one or more of the following: Periodic tidal inundation; hydraulic continuity; formation by tidally influenced geohydraulic processes; or a surface connection through a culvert or tide gate;

(2) Lakes. The shoreland area shall include:

(a) Those lands which extend landward two hundred feet as measured on a horizontal plane from the ordinary high water mark; and

(b) Those wetlands which are in proximity to and either influence or are influenced by the lake. This influence includes but is not limited to one or more of the following: Periodic inundation or hydraulic continuity;

(3) Streams. The shoreland area shall include the greater of:

(a) Those lands which extend landward two hundred feet as measured on a horizontal plane from the ordinary high water mark;

(b) Those floodplains which extend landward two hundred feet as measured on a horizontal plane from the floodway: Provided, That local government may, at its discretion, include all or a larger portion of the one hundred-year floodplain within the associated shorelands. Designation of this shoreland area shall be in accordance with chapter 173-19 WAC, the state master program. If the applicable master program does not designate the shoreland area for a stream, it shall be designated under the rules which applied at the time of adoption by the department;

(c) Those wetlands which are in proximity to and either influence or are influenced by the stream. This influence includes but is not limited to one or more of the following: Periodic inundation; location within a floodplain; or hydraulic continuity; and

(d) Those lands within a river delta floodplain except for those lands that can reasonably be expected to be protected from flood waters by flood control devices maintained by or maintained under license from the federal government, the state, or a political subdivision of the state.

[Statutory Authority: RCW 90.58.140(3) and [90.58].200. 97-04-076 (Order 96-12), § 173-22-040, filed 2/5/97, effective 3/8/97. Statutory Authority: Chapter 90.58 RCW. 86-12-011 (Order 86-06), § 173-22-040, filed 5/23/86. Statutory Authority: RCW 90.58.030, 90.58.120 and 90.58.200. 85-09-043 (Order DE 85-05), § 173-22-040, filed 4/15/85. Statutory Authority: RCW 90.58.030 (2)(f), 90.58.120, and 90.58.200. 80-08-086 (Order DE 80-22), § 173-22-040, filed 7/2/80; Order DE 76-30, § 173-22-040, filed 7/27/76; Order DE 73-11, § 173-22-040, filed 7/20/73; Order DE 72-15, § 173-22-040, filed 6/30/72.]

WAC 173-22-050 Review of designations. The department shall review all the designations made herein at least once in every five-year period following the effective date of chapter 90.58 RCW or as frequently as is deemed advisable by the department, and prepare the necessary revisions to ensure that the designations conform to the policies of chap-

ter 90.58 RCW and of chapter 173-22 WAC in the manner and form prescribed for adopting and amending rules and regulations in chapter 34.04 RCW (the Administrative Procedure Act).

[Statutory Authority: Chapter 90.58 RCW. 86-12-011 (Order 86-06), § 173-22-050, filed 5/23/86. Statutory Authority: RCW 90.58.030 (2)(f), 90.58.120, and 90.58.200. 80-08-086 (Order DE 80-22), § 173-22-050, filed 7/2/80; Order DE 73-11, § 173-22-050, filed 7/20/73; Order DE 72-15, § 173-22-050, filed 6/30/72.]

WAC 173-22-052 Alterations of shorelines affecting designations. Alterations of the existing conditions of shorelines and wetlands of the state which affect the boundary or volume of those water bodies, whether through authorized development or natural causes, shall warrant a review of the designation of those shorelines and their associated wetlands.

[Statutory Authority: Chapter 90.58 RCW. 86-12-011 (Order 86-06), § 173-22-052, filed 5/23/86.]

WAC 173-22-055 Conflicts between designations and criteria. In the event that any of the wetland designations shown on the maps adopted in WAC 173-22-060 conflict with the criteria set forth in this chapter the criteria shall control. The boundary of the designated wetland areas shall be governed by the criteria set forth in WAC 173-22-040.

[Statutory Authority: Chapter 90.58 RCW. 86-12-011 (Order 86-06), § 173-22-055, filed 5/23/86. Statutory Authority: RCW 90.58.030 (2)(f), 90.58.120, and 90.58.200. 80-08-086 (Order DE 80-22), § 173-22-055, filed 7/2/80; Order DE 73-11, § 173-22-055, filed 7/20/73.]

WAC 173-22-060 Shoreline designation maps. Shoreline designation maps are those maps which have been prepared and adopted by the department in a manner consistent with chapter 34.04 RCW (the Administrative Procedure Act) that designate the location of shorelines of the state and their associated wetland areas. Wetland designations are applied under the criteria contained in WAC 173-22-040. Due to the bulk of the maps designating the wetland areas, they are not included in the text of this chapter, but rather are incorporated herein as an appendix hereto, having full legal force and effect as if published herein. Copies of the appendix are available to the public at all reasonable times for inspection in the headquarters of the department of ecology in Olympia, the Washington state code reviser's office, the appropriate county auditor and city clerk. Copies of portions thereof, or of the complete set, will be available from the department at the expense of the party requesting the same. Volumes I, II, and III entitled *Shorelines under the Shoreline Management Act of 1971* (chapter 90.58 RCW, chapter 286, Laws of 1971 1st ex. sess.) were adopted by reference on June 30, 1972.

[Statutory Authority: Chapter 90.58 RCW. 86-12-011 (Order 86-06), § 173-22-060, filed 5/23/86. Statutory Authority: RCW 90.58.030, 90.58.120 and 90.58.200. 85-14-001 (Order 85-15), § 173-22-060, filed 6/20/85; 85-09-043 (Order DE 85-05), § 173-22-060, filed 4/15/85. Statutory Authority: RCW 90.58.120, 90.58.200 and 90.58.030 (2)(f). 81-13-034 (Order DE 81-18), § 173-22-060, filed 6/15/81; Order DE 72-15, § 173-22-060, filed 6/30/72.]

WAC 173-22-0602 Adams County. Adams County designation maps approved June 30, 1972. Revision approved September 20, 1977.

[Statutory Authority: Chapter 90.58 RCW. 86-12-011 (Order 86-06), § 173-22-0602, filed 5/23/86.]

WAC 173-22-0604 Asotin County. Asotin County designation maps approved June 30, 1972. Revision approved August 28, 1973. Revision approved September 20, 1977.

[Statutory Authority: Chapter 90.58 RCW. 86-12-011 (Order 86-06), § 173-22-0604, filed 5/23/86.]

WAC 173-22-0606 Benton County. Benton County designation maps approved June 30, 1972. Revision approved September 20, 1977.

[Statutory Authority: Chapter 90.58 RCW. 86-12-011 (Order 86-06), § 173-22-0606, filed 5/23/86.]

WAC 173-22-0608 Chelan County. Chelan County designation maps approved June 30, 1972. Revision approved August 28, 1973.

[Statutory Authority: Chapter 90.58 RCW. 86-12-011 (Order 86-06), § 173-22-0608, filed 5/23/86.]

WAC 173-22-0610 Clallam County. Clallam County designation maps approved June 30, 1972. Revision approved August 28, 1973. Revision approved September 20, 1977. Revision approved April 15, 1985.

[Statutory Authority: Chapter 90.58 RCW. 86-12-011 (Order 86-06), § 173-22-0610, filed 5/23/86.]

WAC 173-22-0612 Clark County. Clark County designation maps approved June 30, 1972. Revision approved August 28, 1973. Revision approved September 20, 1977.

[Statutory Authority: Chapter 90.58 RCW. 86-12-011 (Order 86-06), § 173-22-0612, filed 5/23/86.]

WAC 173-22-0614 Columbia County. Columbia County designation maps approved June 30, 1972.

[Statutory Authority: Chapter 90.58 RCW. 86-12-011 (Order 86-06), § 173-22-0614, filed 5/23/86.]

WAC 173-22-0616 Cowlitz County. Cowlitz County designation maps approved June 30, 1972. Revision approved August 28, 1973. Revision approved September 20, 1977. Revision approved July 2, 1980.

[Statutory Authority: Chapter 90.58 RCW. 86-12-011 (Order 86-06), § 173-22-0616, filed 5/23/86.]

WAC 173-22-0618 Douglas County. Douglas County designation maps approved June 30, 1972. Revision approved August 28, 1973.

[Statutory Authority: Chapter 90.58 RCW. 86-12-011 (Order 86-06), § 173-22-0618, filed 5/23/86.]

WAC 173-22-0620 Ferry County. Ferry County designation maps approved June 30, 1972. Revision approved September 20, 1977.

[Statutory Authority: Chapter 90.58 RCW. 86-12-011 (Order 86-06), § 173-22-0620, filed 5/23/86.]

WAC 173-22-0622 Franklin County. Franklin County designation maps approved June 30, 1972. Revision approved August 28, 1973.

[Statutory Authority: Chapter 90.58 RCW. 86-12-011 (Order 86-06), § 173-22-0622, filed 5/23/86.]

WAC 173-22-0624 Garfield County. Garfield County designation maps approved June 30, 1972.

[Statutory Authority: Chapter 90.58 RCW. 86-12-011 (Order 86-06), § 173-22-0624, filed 5/23/86.]

WAC 173-22-0626 Grant County. Grant County designation maps approved June 30, 1972. Revision approved August 28, 1973. Revision approved September 20, 1977. Revision approved June 15, 1981.

[Statutory Authority: Chapter 90.58 RCW. 86-12-011 (Order 86-06), § 173-22-0626, filed 5/23/86.]

WAC 173-22-0628 Grays Harbor County. Grays Harbor County designation maps approved June 30, 1972. Revision approved August 28, 1973. Revision approved July 2, 1980. Revision approved April 15, 1985.

[Statutory Authority: Chapter 90.58 RCW. 86-12-011 (Order 86-06), § 173-22-0628, filed 5/23/86.]

WAC 173-22-0630 Island County. Island County designation maps approved June 30, 1972. Revision approved September 20, 1977. Revision approved July 2, 1980.

[Statutory Authority: Chapter 90.58 RCW. 86-12-011 (Order 86-06), § 173-22-0630, filed 5/23/86.]

WAC 173-22-0632 Jefferson County. Jefferson County designation maps approved June 30, 1972. Revision approved September 20, 1977. Revision approved July 2, 1980.

[Statutory Authority: Chapter 90.58 RCW. 86-12-011 (Order 86-06), § 173-22-0632, filed 5/23/86.]

WAC 173-22-0634 King County. King County designation maps approved June 30, 1972. Revision approved August 28, 1973. Revision approved September 20, 1977. Revision approved July 2, 1980. Revision approved June 15, 1981. Revision approved April 15, 1985.

[Statutory Authority: Chapter 90.58 RCW. 86-12-011 (Order 86-06), § 173-22-0634, filed 5/23/86.]

WAC 173-22-0636 Kitsap County. Kitsap County designation maps approved June 30, 1972. Revision approved August 28, 1973. Revision approved September 20, 1977. Revision approved July 2, 1980. Revision approved June 15, 1981.

[Statutory Authority: Chapter 90.58 RCW. 86-12-011 (Order 86-06), § 173-22-0636, filed 5/23/86.]

WAC 173-22-0638 Kittitas County. Kittitas County designation maps approved June 30, 1972. Revision approved August 28, 1973. Revision approved September 20, 1977.

[Statutory Authority: Chapter 90.58 RCW. 86-12-011 (Order 86-06), § 173-22-0638, filed 5/23/86.]

WAC 173-22-0640 Klickitat County. Klickitat County designation maps approved June 30, 1972. Revision approved August 28, 1973. Revision approved September 20, 1977. Revision approved July 2, 1980.

[Statutory Authority: Chapter 90.58 RCW. 86-12-011 (Order 86-06), § 173-22-0640, filed 5/23/86.]

WAC 173-22-0642 Lewis County. Lewis County designation maps approved June 30, 1972. Revision approved August 28, 1973. Revision approved September 20, 1977. Revision approved July 2, 1980.

[Statutory Authority: Chapter 90.58 RCW. 86-12-011 (Order 86-06), § 173-22-0642, filed 5/23/86.]

WAC 173-22-0644 Lincoln County. Lincoln County designation maps approved June 30, 1972. Revision approved September 20, 1977.

[Statutory Authority: Chapter 90.58 RCW. 86-12-011 (Order 86-06), § 173-22-0644, filed 5/23/86.]

WAC 173-22-0646 Mason County. Mason County designation maps approved June 30, 1972. Revision approved August 28, 1973. Revision approved September 20, 1977.

[Statutory Authority: Chapter 90.58 RCW. 86-12-011 (Order 86-06), § 173-22-0646, filed 5/23/86.]

WAC 173-22-0648 Okanogan County. Okanogan County designation maps approved June 30, 1972. Revision approved August 28, 1973. Revision approved September 20, 1977. Revision approved September 29, 1987. Revision approved January 5, 1988.

[Statutory Authority: RCW 90.58.120 and 90.58.200. 88-03-070 (Order DE 87-45), § 173-22-0648, filed 1/20/88. Statutory Authority: RCW 90.58.030, 90.58.120 and 90.58.300. 87-20-050 (Order DE 87-35), § 173-22-0648, filed 10/2/87. Statutory Authority: Chapter 90.58 RCW. 86-12-011 (Order 86-06), § 173-22-0648, filed 5/23/86.]

WAC 173-22-0650 Pacific County. Pacific County designation maps approved June 30, 1972. Revision approved August 28, 1973. Revision approved September 20, 1977.

[Statutory Authority: Chapter 90.58 RCW. 86-12-011 (Order 86-06), § 173-22-0650, filed 5/23/86.]

WAC 173-22-0652 Pend Oreille County. Pend Oreille County designation maps approved June 30, 1972. Revision approved April 15, 1985.

[Statutory Authority: Chapter 90.58 RCW. 86-12-011 (Order 86-06), § 173-22-0652, filed 5/23/86.]

WAC 173-22-0654 Pierce County. Pierce County designation maps approved June 30, 1972. Revision approved September 20, 1977.

[Statutory Authority: Chapter 90.58 RCW. 86-12-011 (Order 86-06), § 173-22-0654, filed 5/23/86.]

WAC 173-22-0656 San Juan County. San Juan County designation maps approved June 30, 1972. Revision approved August 28, 1973. Revision approved September 20, 1977. Revision approved August 15, 1978. Revision approved July 2, 1980. Revision approved June 20, 1985.

[Statutory Authority: Chapter 90.58 RCW. 86-12-011 (Order 86-06), § 173-22-0656, filed 5/23/86.]

WAC 173-22-0658 Skagit County. Skagit County designation maps approved June 30, 1972. Revision approved September 20, 1977. Revision approved July 2, 1980.

[Statutory Authority: Chapter 90.58 RCW. 86-12-011 (Order 86-06), § 173-22-0658, filed 5/23/86.]

WAC 173-22-0660 Skamania County. Skamania County designation maps approved June 30, 1972. Revision approved August 28, 1973. Revision approved September 20, 1977. Revision approved July 2, 1980.

[Statutory Authority: Chapter 90.58 RCW. 86-12-011 (Order 86-06), § 173-22-0660, filed 5/23/86.]

WAC 173-22-0662 Snohomish County. Snohomish County designation maps approved June 30, 1972. Revision approved August 28, 1973. Revision approved July 2, 1980.

[Statutory Authority: Chapter 90.58 RCW. 86-12-011 (Order 86-06), § 173-22-0662, filed 5/23/86.]

WAC 173-22-0664 Spokane County. Spokane County designation maps approved June 30, 1972.

[Statutory Authority: Chapter 90.58 RCW. 86-12-011 (Order 86-06), § 173-22-0664, filed 5/23/86.]

WAC 173-22-0666 Stevens County. Stevens County designation maps approved June 30, 1972. Revision approved August 28, 1973. Revision approved September 20, 1977.

[Statutory Authority: Chapter 90.58 RCW. 86-12-011 (Order 86-06), § 173-22-0666, filed 5/23/86.]

WAC 173-22-0668 Thurston County. Thurston County designation maps approved June 30, 1972. Revision approved August 28, 1973. Revision approved September 20, 1977. Revision approved July 2, 1980. Revision approved April 15, 1985.

[Statutory Authority: Chapter 90.58 RCW. 86-12-011 (Order 86-06), § 173-22-0668, filed 5/23/86.]

WAC 173-22-0670 Wahkiakum County. Wahkiakum County designation maps approved June 30, 1972.

[Statutory Authority: Chapter 90.58 RCW. 86-12-011 (Order 86-06), § 173-22-0670, filed 5/23/86.]

WAC 173-22-0672 Walla Walla County. Walla Walla County designation maps approved June 30, 1972. Revision approved September 20, 1977.

[Statutory Authority: Chapter 90.58 RCW. 86-12-011 (Order 86-06), § 173-22-0672, filed 5/23/86.]

WAC 173-22-0674 Whatcom County. Whatcom County designation maps approved June 30, 1972. Revision approved August 28, 1973. Revision approved September 20, 1977. Revision approved July 2, 1980.

[Statutory Authority: Chapter 90.58 RCW. 86-12-011 (Order 86-06), § 173-22-0674, filed 5/23/86.]

WAC 173-22-0676 Whitman County. Whitman County designation maps approved June 30, 1972.

[Statutory Authority: Chapter 90.58 RCW. 86-12-011 (Order 86-06), § 173-22-0676, filed 5/23/86.]

WAC 173-22-0678 Yakima County. Yakima County designation maps approved June 30, 1972. Revision approved August 28, 1973. Revision approved September 20, 1977. Revision approved July 2, 1980.

[Statutory Authority: Chapter 90.58 RCW. 86-12-011 (Order 86-06), § 173-22-0678, filed 5/23/86.]

WAC 173-22-070 Lands within federal boundaries. In addition to those designations contained in the appendix, those nonfederal lands lying within the exterior boundaries of federal lands and those federal lands leased by the federal government to other persons, which lands fall within the definition of shorelands contained herein, shall also be subject to the jurisdiction of chapter 90.58 RCW.

[Statutory Authority: RCW 90.58.140(3) and [90.58].200. 97-04-076 (Order 96-12), § 173-22-070, filed 2/5/97, effective 3/8/97; Order DE 73-11, § 173-22-070, filed 7/20/73; Order DE 72-15, § 173-22-070, filed 6/30/72.]

WAC 173-22-080 Wetland delineation manual. The department has prepared a Washington State Wetland Identification and Delineation Manual (Ecology publication # 96-94) to be used in implementing these regulations. The mandatory portions of this manual are adopted into the following regulations. In addition, the manual contains background information, guidance, examples, and methods which may be useful in applying these regulations. The manual is intended to be used in implementing the Shoreline Management Act and other applicable state statutes. The manual is also to be used by local governments in implementing local regulations under the Growth Management Act (chapter 36.70A RCW).

The state manual takes the original 1987 Corps of Engineers manual and incorporates the changes made by the federal government to the 1987 manual since that time. This includes the national guidance issued by the Corps in 1991 and 1992, and the regional guidance issued by the Corps and EPA in 1994. All other changes are of two types:

Additional language added to assist the user in applying the manual to the variety of situations found in the state of Washington; or

Deletion of geographic material or references irrelevant to Washington.

Since the original 1987 manual was developed for use throughout the United States, it contains many references that do not apply to our state. Where appropriate, references to species or situations found in Washington have been added.

(1) Wetland delineation. Purpose and introduction.

It is the purpose of a delineation manual to provide information and methods that will allow a delineator to make an accurate wetland delineation at any time of the year. However, it must be recognized that some wetlands will be more difficult to delineate than others and that all information collected must be used in conjunction with the knowledge and experience of the delineator. The proper collection and recording of field and other supporting data is one of the most critical aspects of any wetland delineation. The wetland delineation regulations are intended to identify areas that meet the definition of wetlands found in state law. They are also intended to identify the same areas identified in the Corps of Engineers 1987 Wetlands Delineation Manual, as amended and augmented by official federal guidance issued through January 1995.

The technical approach for identifying and delineating wetlands does not constitute a classification system. It provides a basis for determining whether a given area is a wetland for purposes of federal, state and local regulations without attempting to classify it by wetland type.

Certain wetland types, under the extremes of normal seasonal or annual variability, may not always meet all the wetland criteria defined in the manual. Examples include vernal wetlands during drought years and seasonal wetlands that may lack hydrophytic vegetation and/or wetland hydrology during the dry season. Such areas are discussed in subsection (12) of this section **(Problem Areas)**, and guidance is provided for making wetland determinations in these areas.

Three key provisions of the definition of wetlands include:

(a) Inundated or saturated soil conditions resulting from permanent or periodic inundation or saturation by ground water or surface water.

(b) A prevalence of vegetation typically adapted for life in saturated soil conditions (hydrophytic vegetation).

(c) The presence of "normal circumstances."

Explicit in the definition is the consideration of three environmental parameters: Hydrology, soil, and vegetation. Positive wetland indicators of all three parameters are normally present in wetlands. Although vegetation is often the most readily observed parameter, sole reliance on vegetation or either of the other parameters as the determinant of wetlands can sometimes be misleading. Many plant species can grow successfully in both wetlands and nonwetlands, and hydrophytic vegetation and hydric soils may persist for decades following alteration of hydrology that will render an area a nonwetland. The presence of hydric soils and wetland hydrology indicators in addition to vegetation indicators will provide a logical, easily defensible, and technical basis for the presence of wetlands. The combined use of indicators for all three parameters will enhance the technical accuracy, consistency, and credibility of wetland determinations. Therefore, all three parameters were used in developing the criteria for wetlands and all approaches for applying the criteria embody the multiparameter concept.

The procedures described in the methods section of the state delineation manual have been tested and found to be reliable. However, these methods are recommendations and are not mandatory. Site-specific conditions may require modification of field procedures. The user has the flexibility to employ sampling procedures other than those described. However, the basic approach for making wetland determinations should not be altered (i.e., the determination should be based on the dominant plant species, soil characteristics, and hydrologic characteristics of the area in question). The user should document reasons for using a different characterization procedure than described in the state manual. *CAUTION: Application of methods described in the manual or the modified sampling procedures requires that the user be familiar with wetlands of the area and use his/her training, experience, and good judgment in making wetland determinations.*

(2) Wetland identification and delineation. Technical criteria. The interaction of hydrology, vegetation, and soil results in the development of characteristics unique to wetlands. Therefore, the following criteria for wetlands are based on these three parameters.

The definition of wetlands (WAC 173-22-030) includes the language found in the federal Clean Water Act regulations. It also includes additional language found in the Shoreline Management Act and Growth Management Act which specifically excludes several types of "artificial" wetlands. Many of these areas specifically excluded in the definition will meet the technical requirements for being a wetland (i.e., will meet all three criteria). The delineation manual identifies all areas that meet the necessary wetland criteria and does not attempt to distinguish these "artificial" wetlands. If necessary, the user will need to independently determine if a wetland as identified by this manual fits in any of the categories of "artificial" wetlands specifically excluded in the definition.

(3) The following criteria, and technical approach comprise the basis for the identification and delineation of wetlands:

Wetlands meet the following criteria:

(a) Vegetation. The prevalent vegetation consists of macrophytes that are typically adapted to areas having hydrologic and soil conditions described in subsection (1)(a) of this section. Hydrophytic species, due to morphological, physiological, and/or reproductive adaptation(s), have the ability to grow, effectively compete, reproduce, and/or persist in anaerobic soil conditions. Indicators of vegetation associated with wetlands are listed in this section.

(b) Soil. A hydric soil is a soil that formed under conditions of saturation, flooding, or ponding long enough during the growing season to develop anaerobic conditions in the upper part. (USDA-NRCS 1995, Federal Register, 7/13/94, Vol. 59, No. 133, pp 35680-83.) The following criteria reflect those soils that meet this definition:

(i) All Histosols except Folists; or

(ii) Soils in Aquic suborders, great groups, or subgroups, Albolls suborder, Aquisalids, Pachic subgroups, or Cumulic subgroups that are:

(A) Somewhat poorly drained with a water table equal to 0.0 foot (ft.) from the surface during the growing season; or

(B) Poorly drained or very poorly drained and have either:

(I) A water table equal to 0.0 ft. during the growing season if textures are coarse sand, sand, or fine sand in all layers within 20 inches(in.), or for other soils;

(II) A water table at less than or equal to 0.5 ft. from the surface during the growing season if permeability is equal to or greater than 6.0 in./hour in all layers within 20 in.; or

(III) The water table is at less than or equal to 1.0 ft. from the surface during the growing season if permeability is less than 6.0 in./hour in any layer within 20 in.; or

(iii) Soils that are frequently ponded for long or very long duration during the growing season; or

(iv) Soils that are frequently flooded for long duration or very long duration during the growing season.

Soil criteria indicators are listed in subsections (6), (7) and (8) of this section.

(c) Hydrology. Areas which are inundated and/or saturated to the surface for a consecutive number of days for more than 12.5 percent of the growing season are wetlands, provided the soil and vegetation parameters are met. Areas inundated or saturated to the surface for a consecutive number of days between 5 percent and 12.5 percent of the growing season in most years may or may not be wetlands. Areas inundated or saturated to the surface for less than 5 percent of the growing season are nonwetlands. Wetland hydrology exists if field indicators are present as described in subsection (10) of this section.

(d) Technical approach for the identification and delineation of wetlands. Except in certain situations defined in this manual, evidence of at least one positive wetland indicator from each parameter (hydrology, soil, and vegetation) must be found in order to make a positive wetland determination.

Characteristics and Indicators of Hydrophytic Vegetation, Hydric Soils, and Wetland Hydrology

(4) Hydrophytic vegetation. The plant community concept is followed throughout the manual. Emphasis is placed on the assemblage of plant species that exert a controlling influence on the character of the plant community, rather than on indicator species. Thus, the presence of scattered individuals of an upland plant species in a community dominated by hydrophytic species is not a sufficient basis for concluding that the area is an upland community. Likewise, the presence of a few individuals of a hydrophytic species in a community dominated by upland species is not a sufficient basis for concluding that the area has hydrophytic vegetation.

(5) Indicators of hydrophytic vegetation. Several indicators may be used to determine whether hydrophytic vegetation is present on a site. However, the presence of a single individual of a hydrophytic species does not mean that hydrophytic vegetation is present. The strongest case for the presence of hydrophytic vegetation can be made when several indicators, such as those in the following list, are present. One of the most common errors made in delineating wetlands has been to assume that the first indicator (a) must be met in every case. This has led to some wetland areas being called nonwetland. Keep in mind that any of the following indicators may be used to meet the vegetation criteria. However, when using any indicator other than (a), it is important to have solid documentation of wetland hydrology and hydric soils. Indicators are listed in order of decreasing reliability. Although all are valid indicators, some are stronger than others. When a decision is based on an indicator appearing in the lower portion of the list, re-evaluate the parameter to ensure that the proper decision was reached.

(a) More than 50 percent of the dominant species are OBL, FACW+, FACW, FACW-, FAC+ or FAC (Table 1) on lists of plant species that occur in wetlands. A national interagency panel has prepared a National List of Plant Species that Occur in Wetlands (Reed 1988a). This list categorizes species according to their affinity for occurrence in wetlands. In addition, a 1993 supplement to the plants species list for Region 9 (Northwest) has been prepared (Reed 1993). Be sure to consult this supplement or any more recent supplements to confirm that a species has the proper indicator status. (The Seattle District of the Corps does not use the FAC neutral option as an indicator of hydrophytic vegetation but does allow the use of the FAC neutral option as an indicator of hydrology. See Hydrology indicator # 10 for definition.) FAC- species do not count as FAC species for the purposes of meeting indicator (a). Only FAC, FAC+, FACW (+, -) and OBL species count.

Table 1
Plant Indicator Status Categories

Indicator Category	Indicator Symbol	Definition
OBLIGATE WETLAND PLANTS	OBL	Plants that almost always occur (estimated probability >99%) in wetlands under natural conditions, but which may also occur rarely (estimated probability <1%) in nonwetlands. Examples: *Typha latifolia, Lysichitumamericanum*
FACULTATIVE WETLAND PLANTS	FACW	Plants that usually occur (estimated probability 67% to 99%) in wetlands, but also occur (estimated probability 1% to 33% in nonwetlands). Examples: *Fraxinuslatifolia Cornus stolonifera.*
FACULTATIVE PLANTS	FAC	Plants with a similar likelihood (estimated probability 34% to 66%) of occurring in both wetlands and nonwetlands. Examples: *Alnus rubra, Rubus spectabilis*
FACULTATIVE UPLAND PLANTS	FACU	Plants that sometimes occur (estimated probability 1% to 33%) in wetlands, but occur more often (estimated probability 67% to 99%) in nonwetlands. Examples: *Acer macrophyllum, Rubus discolor*

Table 1
Plant Indicator Status Categories

Indicator Category	Indicator Symbol	Definition
OBLIGATE UPLAND PLANTS	UPL	Plants that rarely occur (estimated probability <1%) in wetlands, but occur almost always (estimated probability >99%) in non-wetlands under natural conditions.

Categories were originally developed and defined by the USFWS National Wetlands Inventory and subsequently modified by the National Plant List Panel. The three facultative categories are subdivided by (+) and (-) modifiers. FAC+ species are considered to have a greater estimated probability of occurring in wetlands than FAC species, while FAC- species are considered to have a lesser estimated probability of occurring in wetlands than FAC species.

(b) Other indicators. Although there are several other indicators of hydrophytic vegetation, it will seldom be necessary to use them. However, they may provide additional useful information to strengthen a case for the presence of hydrophytic vegetation. Additional training and/or experience may be required to employ these indicators.

(i) Visual observation of plant species growing in areas of prolonged inundation and/or soil saturation. This indicator can only be applied by experienced personnel who have accumulated information through several years of field experience and written documentation (field notes) that certain species commonly occur in areas of prolonged (>12.5 percent) inundation and/or soil saturation during the growing season. In certain situations, areas with wetland hydrology and hydric soils may be dominated by plant species classified as facultative upland. The most common examples in Washington are Western Hemlock forested wetlands and wet meadows planted with pasture grasses. It is important to keep in mind that facultative upland species are found in wetlands up to 33% of the time and, under certain circumstances, can be the dominant species in a wetland plant community. Usually, however, FACU species are found in uplands. Thus, if you encounter a situation where the hydrology and soil parameters are clearly met, do not eliminate the area from consideration as a wetland based on a lack of prevalence of facultative or wetter vegetation. Species such as *Gaultheria shallon, Acer circinatum,*and *Pteridium aquilinum* may be found in these areas, often on hummocks or downed logs or stumps. More typical wetland species may occur in such areas, though often as nondominants. Thus, occurrence of species commonly observed in other wetland areas provides a strong indication that hydrophytic vegetation is present. If you have strong evidence that the hydrology and soil parameters are met then the vegetation is acting as a hydrophyte and the area is probably a wetland.

CAUTION: It is necessary to have good documentation that the area experiences prolonged inundation and/or saturation in order to call it a wetland. The presence of standing water or saturated soil on a site at a single point in time or for short periods is insufficient evidence that the species present are able to tolerate long periods of inundation. The user must relate the observed species to other similar situations and determine whether they are normally found in wet areas, taking into consideration the season and immediately preceding weather conditions. If you encounter this situation, you may be dealing with an atypical situation or a problem area.

(ii) Morphological adaptations. Some hydrophytic species have easily recognized physical characteristics that indicate their ability to occur in wetlands. A given species may exhibit several of these characteristics, but not all hydrophytic species have evident morphological adaptations.

(iii) Technical literature. The technical literature may provide a strong indication that plant species comprising the prevalent vegetation are commonly found in areas where soils are periodically saturated for long periods. Sources of available literature include:

(A) Taxonomic references. Such references usually contain at least a general description of the habitat in which a species occurs. A habitat description such as, "Occurs in water of streams and lakes and in alluvial floodplains subject to periodic flooding," supports a conclusion that the species typically occurs in wetlands.

(B) Botanical journals. Some botanical journals contain studies that define species occurrence in various hydrologic regimes.

(C) Technical reports. Governmental agencies periodically publish reports (e.g., literature reviews) that contain information on plant species occurrence in relation to hydrologic regimes.

(D) Technical workshops, conferences, and symposia. Publications resulting from periodic scientific meetings contain valuable information that can be used to support a decision regarding the presence of hydrophytic vegetation. These usually address specific regions or wetland types.

(E) Wetland plant data base. The National Wetland Inventory has produced a Plant Data Base that contains habitat information on over 6,700 plant species that occur at some estimated probability in wetlands, as compiled from the technical literature.

(iv) Physiological adaptations. Physiological adaptations include any features of the metabolic processes of plants that make them particularly fitted for life in saturated soil conditions. *NOTE: It is impossible to detect the presence of physiological adaptations in plant species during on-site visits.*

(v) Reproductive adaptations. Some plant species have reproductive features that enable them to become established and grow in saturated soil conditions.

(6) Hydric soils. Indicators. Indicators are listed in descending order of reliability. Although all are valid indicators, some are stronger indicators than others. When a decision is based on an indicator appearing in the lower portion of the list, re-evaluate the parameter to ensure that the proper decision was reached.

A hydric soil may be either drained or undrained, and a drained hydric soil may not continue to support hydrophytic vegetation. Therefore, not all areas having hydric soils will qualify as wetlands. Only when a hydric soil supports hydrophytic vegetation and the area has indicators of wetland hydrology may the area be referred to as a wetland.

A drained hydric soil is one in which sufficient ground or surface water has been removed by artificial means such that the area will no longer support hydrophytic vegetation or wetland hydrology. On-site evidence of drained soils includes:

(a) Presence of ditches or canals of sufficient depth to lower the water table below the major portion of the root zone of the prevalent vegetation.

(b) Presence of dikes, levees, or similar structures that obstruct normal inundation of an area.

(c) Presence of a tile system to promote subsurface drainage.

(d) Diversion of upland surface run-off from an area.

Although it is important to record such evidence of drainage of an area, a hydric soil that has been drained or partially drained still allows the soil parameter to be met. However, the area will not qualify as a wetland if the degree of drainage has been sufficient to preclude the presence of either hydrophytic vegetation or a hydrologic regime that occurs in wetlands. *NOTE: The mere presence of drainage structures in an area is not sufficient basis for concluding that a hydric soil has been drained; such areas may continue to have wetland hydrology.*

(7) Indicators of hydric soils (nonsandy soils). Several indicators are available for determining whether a given soil meets the definition and criteria for hydric soils. Any one of the following indicates that hydric soils are present.

(a) Organic soils (Histosols). As a general rule, a soil is an organic soil when:

(i) More than 50 percent (by volume) of the upper 32 inches of soil is composed of organic soil material; or

(ii) Organic soil material of any thickness rests on bedrock. Organic soils are saturated for long periods and are commonly called peats or mucks.

(b) Histic epipedons. A histic epipedon is an 8-inch to 16-inch layer at or near the surface of a mineral hydric soil that is saturated with water for 30 consecutive days or more in most years and contains a minimum of 20 percent organic matter when no clay is present or a minimum of 30 percent organic matter when clay content is 60 percent or greater. Soils with histic epipedons are inundated or saturated for sufficient periods to greatly retard aerobic decomposition of the organic surface, and are considered to be hydric soils.

(c) Sulfidic material. When mineral soils emit an odor of rotten eggs, hydrogen sulfide is present. Such odors are only detected in soils that are permanently saturated and have sulfidic material within a few centimeters of the soil surface. Sulfides are produced only in a reducing environment.

(d) Aquic or peraquic moisture regime. An aquic moisture regime is a reducing one; i.e., it is virtually free of dissolved oxygen because the soil is saturated by ground water or by water of the capillary fringe. Because dissolved oxygen is removed from ground water by respiration of microorganisms, roots, and soil fauna, it is also implicit that the soil temperature is above biologic zero (41°F at 20 inches) at the same time the soil is saturated. Soils with peraquic moisture regimes are characterized by the presence of ground water which is always at or near the soil surface and exhibits reducing conditions. Examples include soils of tidal marshes and soils of closed, landlocked depressions that are fed by permanent streams.

(e) Reducing soil conditions. Soils saturated for long or very long duration will usually exhibit reducing conditions. Under such conditions, ions of iron are transformed (reduced) from a ferric valence state (Fe3+) to a ferrous valence state (Fe2+). This condition can often be detected in the field by a ferrous iron test. A simple colorimetric field test kit has been developed for this purpose. When a soil extract changes to a pink color upon addition of alpha-alpha-dipyridil, ferrous iron is present, which indicates a reducing soil environment. *NOTE: This test cannot be used in mineral hydric soils having low iron content, organic soils, and soils that have been desaturated for significant periods of the growing season. Caution: This test can only be used as a positive indicator of reducing conditions and it is only effective if it is done at the time that a mineral soil is actively reducing. While the presence of a reaction indicates anaerobic conditions, the lack of a reaction does not indicate a lack of anaerobic conditions.*

(f) Soil colors. The colors of various soil components are often the most diagnostic indicator of hydric soils. Colors of these components are strongly influenced by the frequency and duration of soil saturation, which leads to reducing soil conditions. Mineral hydric soils will be either gleyed or will have contrasting mottles and/or low chroma matrix. These are discussed below:

NOTE: Soil terminology is undergoing constant change, and terms such as "mottles" and "low chroma colors" are being replaced with the term "redoximorphic features." In order to retain consistency with the Corps 1987 Manual, the older terms are used below.

(i) Gleyed soils (gray colors). Gleyed soils develop when anaerobic soil conditions result in pronounced chemical reduction of iron, manganese, and other elements, thereby producing gray soil colors. Anaerobic conditions that occur in waterlogged soils result in the predominance of reduction processes, and such soils are greatly reduced. Iron is one of the most abundant elements in soils. Under anaerobic conditions, iron in converted from the oxidized (ferric) state to the reduced (ferrous) state, which results in the bluish, greenish, or grayish colors associated with the gleying effect. Gleying immediately below the A-horizon or 10 inches (whichever is shallower) is an indication of a markedly reduced soil, and gleyed soils are hydric soils. Gleyed soil conditions can be determined by using the gley page of the Munsell Color Charts (Munsell Color 1990).

(ii) Soils with contrasting mottles and/or low chroma matrix. Mineral hydric soils that are saturated for substantial periods of the growing season (but not long enough to produce gleyed soils) will either have high chroma mottles and a low chroma matrix or will lack mottles but have a low matrix chroma. Mottled means "marked with spots of contrasting

color." Soils that have high chroma mottles and a low chroma matrix are indicative of a fluctuating water table.

NOTE: Hydric soils can also have low chroma mottles that contrast with the matrix color.

The soil matrix is the portion (usually more than 50 percent) of a given soil layer that has the predominant color. Colors should be determined in soils that have been moistened; otherwise, state that colors are for dry soils. Mineral hydric soils usually have one of the following color features in the horizon immediately below the A-horizon or 10 inches (whichever is shallower):

(A) Matrix chroma of 2 or less in mottled soils.

(B) Matrix chroma of 1 or less in unmottled soils.

NOTE: The matrix chroma of some dark (black) mineral hydric soils (e.g., Aquolls) will not conform to the criteria described in (f)(ii)(A) and (B) of this subsection; in such soils, gray mottles occurring at 10 inches or less are indicative of hydric conditions. Mollisols that are not hydric will often still have dark colored surface soils.

CAUTION: Soils with significant coloration due to the nature of the parent material may not exhibit the above characteristics. In such cases, this indicator cannot be used.

(g) Soil appearing on hydric soils list. Using the criteria for hydric soils, the NTCHS has developed a list of hydric soils. Listed soils have reducing conditions for a significant portion of the growing season in a major portion of the root zone and are frequently saturated within 12 inches of the soil surface if they have not been effectively drained. *CAUTION: Do not use this indicator unless you have field verified that the profile description of the mapping unit conforms to that of the sampled soil.*

(h) Iron and manganese concretions. During the oxidation-reduction process, iron and manganese in suspension are sometimes segregated as oxides into concretions, nodules or soft masses. These accumulations are usually black or dark brown. Concretions >2 mm. in diameter occurring within 7.5 cm. of the surface are evidence that the soil is saturated for long periods near the surface.

CAUTION: Concretions may be relict features. Be careful to confirm that the hydrologic conditions that created the concretions still exist before using this indicator.

(8) Additional indicators of hydric soils (for sandy soils). Not all indicators listed above can be applied to sandy soils. In particular, soil color may not be a reliable indicator in most sandy soils. However, three additional soil features may be used as indicators of sandy hydric soils, including:

(a) High organic matter content in the surface horizon. Organic matter tends to accumulate above or in the surface horizon of sandy soils that are inundated or saturated to the surface for a significant portion of the growing season. Prolonged inundation or saturation creates anaerobic conditions that greatly inhibit decomposition (oxidation) of organic matter.

(b) Streaking of subsurface horizons by organic matter. Organic matter is moved downward through sand as the water table fluctuates. This often occurs more rapidly and to a greater degree in some vertical sections of a sandy soil containing a higher content of organic matter than in others. Thus, the sandy soil appears streaked with darker areas. When soil from a darker area is rubbed between the fingers, the organic matter stains the fingers.

(c) Organic pans. As organic matter is moved downward through sandy soils, it tends to accumulate at the point representing the most commonly occurring depth to the water table. This organic matter tends to become slightly cemented with iron and aluminum, forming a thin layer of hardened soil (spodic horizon). These horizons often occur at depths of 12 to 30 inches below the mineral surface. Wet spodic soils usually have thick dark surface horizons that are high in organic matter with dull, gray horizons above the spodic horizon. Generally, the nearer to the surface the spodic horizon, the more likely the soil is hydric.

CAUTION: In recently deposited sandy material (e.g., accreting sandbars), it may be impossible to find any of these indicators. In such cases, consider this a problem area (Entisols).

NOTE: The NRCS developed and published Field Indicators of Hydric Soils in the United States in July 1996. This document includes many useful indicators of hydric soils, however, some hydric soils will lack one of the indicators included in the NRCS document. Therefore, the indicators are only used as positive indicators — if one or more of the indicators is present, the soil is a hydric soil, but the lack of any of these indicators does not mean the soil is nonhydric. In addition, the Corps has not authorized the use of these new field indicators and has stated that while they may be used as additional information, they do not replace the indicators in the 1987 Manual nor may they be used to contradict the 1987 Manual indicators.

(9) Wetland hydrology. The term "wetland hydrology" encompasses all hydrologic characteristics of areas that are periodically inundated or have soils saturated to the surface at some time during the growing season. Areas with evident characteristics of wetland hydrology are those where the presence of water has an overriding influence on characteristics of vegetation and soils due to anaerobic and chemically reducing conditions, respectively. Such characteristics are usually present in areas that are inundated or have soils that are saturated to the surface for sufficient duration to develop hydric soils and support vegetation typically adapted for life in periodically anaerobic soil conditions. Hydrology is often the least exact of the parameters, and indicators of wetland hydrology are sometimes difficult to find in the field. However, it is essential to establish that a wetland area is periodically inundated or has saturated soils during the growing season.

It is usually impractical to accurately measure the duration of soil saturation in the field because it takes repeated visits over a lengthy (several years) period of time. However, there has been a sufficient amount of research to support that the field indicators provided in the manual and supplementary guidance can be good measures of both the frequency and duration of soil saturation.

Given the requirement that inundation/saturation must be present for a certain portion of the growing season it is important to understand how the concept of growing season should be applied. The definition of growing season is: "The

portion of the year when soil temperatures at 19.7 inches below the soil surface are higher than biological zero (41 degrees F). For ease of determination this period can be approximated by the number of frost-free days." The Washington State Wetland Identification and Delineation Manual contains additional guidance on how to determine the growing season.

(10) Indicators of wetland hydrology. Indicators of wetland hydrology may include, but are not necessarily limited to: Drainage patterns, drift lines, sediment deposition, watermarks, stream gage data and flood predictions, historic records, visual observation of saturated soils, and visual observation of inundation. Any of these indicators may be evidence of wetland hydrologic characteristics.

Methods for determining hydrologic indicators can be categorized according to the type of indicator. Recorded data include stream gage data, lake gage data, tidal gage data, flood predictions, and historical records. Use of these data is commonly limited to areas adjacent to streams or other similar areas. Recorded data usually provide both short-term and long-term information about frequency and duration of inundation, but contain little or no information about soil saturation, which must be gained from soil surveys or other similar sources. The remaining indicators require field observations. Field indicators are evidence of present or past hydrologic events (e.g., location and height of flooding). Indicators are listed in order of decreasing reliability. Although all are valid indicators, some are stronger indicators than others. When a decision is based on an indicator appearing in the lower portion of the list, re-evaluate the parameter to ensure that the proper decision was reached. Indicators for recorded data and field observations include:

(a) Recorded data. Stream gage data, lake gage data, tidal gage data, flood predictions, and historical data may be available from the following sources:

(i) Corps of Engineers (CE) district offices. Most CE Districts maintain stream, lake, and tidal gage records for major water bodies in their area. In addition, CE planning and design documents often contain valuable hydrologic information. For example, a General Design Memorandum (GDM) usually describes flooding frequencies and durations for a project area. Furthermore, the extent of flooding within a project area is sometimes indicated in the GDM according to elevation (height) of certain flood frequencies (1-, 2-, 5-, 10-year, etc.).

(ii) U.S. Geological Survey (USGS). Stream and tidal gage data are available from the USGS offices throughout the Nation, and the latter are also available from the National Oceanic and Atmospheric Administration. CE Districts often have such records.

(iii) State, county, and local agencies. These agencies often have responsibility for flood control/relief and flood insurance.

(iv) Natural Resource Conservation Service Small Watershed Projects. Planning documents from this agency are often helpful, and can be obtained from the NRCS district office in the county.

(v) Planning documents of developers.

(b) Field data. The following field hydrologic indicators can be assessed quickly, and although some of them are not necessarily indicative of hydrologic events that occur only during the growing season, they do provide evidence that inundation and/or soil saturation has occurred:

CAUTION: Many delineators have made the mistake of assuming that the wettest conditions occur in the earliest part of the growing season - usually March and April. However, in some situations, the wettest time of the growing season may be later. This is especially true in areas that receive snowmelt run-off or irrigation water or are subject to tidal influence.

(i) Visual observation of inundation. The most obvious and revealing hydrologic indicator may be simply observing the areal extent of inundation. However, because seasonal conditions and recent weather conditions can contribute to surface water being present on a nonwetland site, both should be considered when applying this indicator.

(ii) Visual observation of soil saturation. Examination of this indicator requires digging a soil pit to a depth of 16 inches and observing the level at which water stands in the hole after sufficient time has been allowed for water to drain into the hole. The required time will vary depending on soil texture. In some cases, the upper level at which water is flowing into the pit can be observed by examining the wall of the hole. This level usually represents the depth to the water table. The depth to saturated soils will always be nearer the surface due to the capillary fringe. For soil saturation to impact vegetation, it must occur within a major portion of the root zone (usually within 12 inches of the surface) of the prevalent vegetation. The major portion of the root zone is that portion of the soil profile in which more than one half of the plant roots occur. *CAUTION: In some heavy clay soils, water may not rapidly accumulate in the hole even when the soil is saturated. If water is observed at the bottom of the hole but has not filled to the 12-inch depth, examine the sides of the hole and determine the shallowest depth at which water is entering the hole. When applying this indicator, the season of the year and preceding weather conditions as well the duration of saturation must be considered. NOTE: This indicator has caused confusion in relation to the hydrology criteria, which stipulates that saturation must be to the surface. If the water table (the level at which standing water is found in an unlined hole) is found within twelve inches of the soil surface in a nonsandy soil, one can assume that soil saturation occurs to the surface. For sandy soils, the water table must be within six inches of the soil surface. However, simply finding the water table at the appropriate depth* ***on one particular day,*** *does not necessarily confirm that saturation to the surface for the appropriate length of time does occur. Conversely, finding the water table below the appropriate depth* ***on one particular day,*** *does not confirm that saturation to the surface for the appropriate length of time does not occur.*

(iii) Watermarks. Watermarks are most common on woody vegetation. They occur as stains on bark or other fixed objects (e.g., bridge pillars, buildings, tree trunks, fences, etc.). When several watermarks are present, the highest reflects the maximum extent of recent inundation.

(iv) Drift lines. This indicator is most likely to be found adjacent to streams or other sources of water flow in wetlands, but also often occurs in tidal marshes. Evidence consists of deposition of debris in a line on the surface or debris entangled in above ground vegetation or other fixed objects. Debris usually consists of remnants of vegetation (branches, stems, and leaves), sediment, litter, and other waterborne materials deposited parallel: To the direction of water flow. Drift lines provide an indication of the minimum portion of the area inundated during a flooding event; the maximum level of inundation is generally at a higher elevation than that indicated by a drift line.

(v) Sediment deposits. Plants and other vertical objects often have thin layers, coatings, or depositions of mineral or organic matter on them after inundation. This evidence may remain for a considerable period before it is removed by precipitation or subsequent inundation. Sediment deposition on vegetation and other objects provides an indication of the minimum inundation level. When sediments are primarily organic (e.g., fine organic material, algae), the detritus may become encrusted on or slightly above the soil surface after dewatering occurs.

(vi) Drainage patterns within wetlands. This indicator, which occurs primarily in wetlands adjacent to streams or in depressions with closed or restricted outlets and impervious subsoils, consists of surface evidence of drainage flow into or through an area that is restricted for a substantial duration. In some wetlands, this evidence may exist as a drainage pattern eroded into the soil, vegetative matter (debris) piled against thick vegetation or woody stems oriented perpendicular to the direction of water flow, or the absence of expected leaf litter. Scouring is often evident around roots of persistent vegetation. Debris may be deposited in or along the drainage pattern. *CAUTION: Drainage patterns also occur in upland areas after periods of considerable precipitation; therefore, topographic position must also be considered when applying this indicator.*

(vii) Oxidized rhizospheres surrounding living roots are acceptable hydrology indicators on a case-by-case basis and may be useful in ground water driven systems. Rhizospheres should also be reasonably abundant and within the upper 12 inches of the soil profile. Oxidized rhizospheres should be supported by other indicators of hydrology if hydrology evidence is weak. *Caution: Make sure that the oxidation is occurring along live roots/rhizomes and thus, that they are not relict.*

(viii) Local soil survey data - If you can field verify that the soil at your sampling site is a soil listed in the county soil survey or on the Washington State List of Hydric Soils, then the data in the soil survey referring to the flooding and/or high water table conditions for that soil can be accepted as valid for your site (assuming the site has not been effectively drained since the time it was mapped by the NRCS).

(ix) Water-stained leaves - Forested wetlands that are inundated at some time of the year will frequently have water stained leaves on the forest floor. These leaves are generally grayish or blackish in appearance, as a result of being underwater for significant periods. This indicator should be used with caution as water-stained leaves don't always indicate long-term inundation/saturation. It is important to compare the color of the leaves in the area presumed to be wetland with leaves of the same species in an adjacent area that is clearly upland. There should be a distinct difference in the color and texture of the leaves.

(x) FAC neutral test - In areas where hydrology evidence is weak or lacking, the FAC neutral test may be employed to corroborate the presence of sufficient hydrology. Apply as follows: Compare the number of dominants that are FACW and OBL with the number of dominants that are FACU and UPL (ignore the "neutral" FAC dominants). If there are more dominants that are FACW or wetter than there are dominants that are FACU or drier, then one can infer that the plant community is reflecting the presence of wetland hydrology. If there is a tie, compare the number of FAC+ and FAC- to see if there is a difference. If there is still a tie between the numbers of dominants, examine the nondominant species to determine if they provide an indication of how strongly hydrophytic the vegetation is. Any use of nondominants should be clearly documented and explained.

(xi) Other - Explain and provide rationale for use.

(11) Atypical situations. When a determination is made that positive indicators of hydrophytic vegetation, hydric soils, and/or wetland hydrology could not be found due to effects of recent human activities or natural events, it is necessary to employ different methods of determining the presence of indicators for hydrology, soils or vegetation. The term recent refers to the period of time since legal jurisdiction of an applicable law or regulation took effect.

When any of the three types of situations described below occurs, application of normal methods will lead to the conclusion that the area is not a wetland because positive wetland indicators for at least one of the three parameters will be absent. Therefore, apply procedures described in Part IV, Section F of the 1987 Corps of Engineers Wetland Delineation Manual or the Washington State Wetland Identification and Delineation Manual (as appropriate) to determine whether positive indicators of hydrophytic vegetation, hydric soils, and/or wetland hydrology existed prior to alteration of the area.

This section is applicable to delineations made in the following types of situations:

(a) Unauthorized activities. Unauthorized discharges requiring enforcement actions may result in removal or covering of indicators of one or more wetland parameters. Examples include, but are not limited to:

(i) Alteration or removal of vegetation;

(ii) Placement of dredged or fill material over hydric soils; and/or

(iii) Construction of levees, drainage systems, or dams that significantly alter the area hydrology. *NOTE: This section should not be used for activities that have been previously authorized or those that are exempted from regulation.*

(b) Natural events. Naturally occurring events may result in either creation or alteration of wetlands. For example, recent beaver dams may impound water, thereby resulting in a shift of hydrology and vegetation to wetlands. However, hydric soil indicators may not have developed due to insufficient time having passed to allow their development. Fire, avalanches, volcanic activity, and changing river courses are

other examples. *NOTE: It is necessary to determine whether alterations to an area have resulted in changes that are now the "normal circumstances."* The relative permanence of the change and whether the area is now functioning as a wetland must be considered.

(c) Human-induced wetlands. These are wetlands that have been purposely or incidentally created by human activities, but in which wetland indicators of one or more parameters are absent. For example, road construction may have resulted in impoundment of water in an area that previously was nonwetland, thereby affecting hydrophytic vegetation and wetland hydrology in the area. However, the area may lack hydric soil indicators. *NOTE: This is not intended to bring into jurisdiction those human-made wetlands that are exempted under agency regulations or policy.* It is also important to consider whether the man-induced changes are now the "normal circumstances" for the area. Both the relative permanence of the change and the functioning of the area as a wetland are implied.

(12) Problem areas. There are certain wetland types and/or conditions that may make application of indicators of one or more parameters difficult, at least at certain times of the year. These are not considered to be atypical situations. Instead, they are wetland types in which wetland indicators of one or more parameters may be periodically lacking due to normal environmental conditions or seasonal or annual variations in environmental conditions that result from causes other than human activities or catastrophic natural events. When one of these wetland types is encountered, the methods described in Part IV, Section G of the 1987 Manual or the state manual should be used.

(13) Types of problem areas. Representative examples of potential problem areas, types of variations that occur, and their effects on wetland indicators are presented in the following subparagraphs. Similar situations may sometimes occur in other wetland types. *Note: This section is not intended to bring nonwetland areas having wetland indicators of two, but not all three, parameters into jurisdiction. This list is not intended to be limiting.*

(a) Wetlands on slopes (seeps) and other glacial features. Slope wetlands can occur in certain glaciated areas in which thin soils cover relatively impermeable unsorted glacial material or till or in which layers of sorted glacial material have different hydraulic conditions that produce a broad zone of ground water seepage. Such areas are seldom, if ever, flooded, but downslope ground water movement keeps the soils saturated for a sufficient portion of the growing season to produce anaerobic and reducing soil conditions. This fosters development of hydric soil characteristics and selects for hydrophytic vegetation. Indicators of wetland hydrology may be lacking during the drier portion of the growing season.

(b) Seasonal wetlands. In Washington, some depression areas have wetland indicators of all three parameters during the wetter portion of the growing season, but normally lack wetland indicators of hydrology and/or vegetation during the drier portion of the growing season. For example, obligate and facultative wetland plant species normally are dominant during the wetter portion of the growing season, while upland species (annuals) may be dominant during the drier portion of the growing season. Also, these areas may be inundated during the wetter portion of the growing season, but wetland hydrology indicators may be totally lacking during the drier portion of the growing season. It is important to establish that an area truly is a water body. Water in a depression normally must be sufficiently persistent to exhibit an ordinary high-water mark or the presence of wetland characteristics before it can be considered as wetland potentially subject to jurisdiction. The determination that an area exhibits wetland characteristics for a sufficient portion of the growing season to qualify as a wetland must be made on a case-by-case basis. Such determinations should consider the respective length of time that the area exhibits upland and wetland characteristics, and the manner in which the area fits into the overall ecological system as a wetland. Evidence concerning the persistence of an area's wetness can be obtained from its history, vegetation, soil, drainage characteristics, uses to which it has been subjected, and weather or hydrologic records. This situation is common in eastern Washington and parts of western Washington where precipitation is highly seasonal and/or prolonged droughts occur frequently. It is important to become familiar with the types of wetlands found in these areas. In some cases, it may be necessary to withhold making a final wetland determination until a site is examined during the wettest part of the growing season. Consultation with other experienced delineators may be helpful as well.

(c) Vernal wetlands - Although these systems are usually associated with California, Washington does have vernal wetlands, particularly in the region around Spokane. These wetlands are a distinct type of seasonal wetland described above. The hydrology in these wetlands is driven by winter and early spring rain and snowmelt and may be totally lacking by early summer. A wetland plant community grows and reproduces in spring in response to the wet conditions and is replaced by an upland plant community by summer. Attempts to delineate these wetlands in summer or fall may result in a false negative conclusion. In addition, during periods of extended drought, these wetlands may remain dry for several years.

(d) Vegetated flats. In both coastal and interior areas of Washington, vegetated flats are often dominated by annual species that are categorized as OBL. Application of normal sampling procedures during the growing season will clearly result in a positive wetland determination. However, these areas will appear to be unvegetated mudflats when examined during the nongrowing season, and the area would not qualify at that time as a wetland due to an apparent lack of vegetation.

(e) Mollisols (prairie and steppe soils) - Mollisols are dark colored, base-rich soils. They are common in grassland areas of the state, especially in eastern Washington and the prairies of the south Puget Sound basin. These soils typically have deep, dark topsoil layers (mollic epipedons) and low chroma matrix colors to considerable depths. They are rich in organic matter due largely to the vegetation (deep roots) and reworking of the soil and organic matter by earthworms, ants, moles, and rodents. The low chroma colors of mollisols are not necessarily due to prolonged saturation, so be particularly careful in making wetland determinations in these soils.

Become familiar with the characteristics of mollisols with aquic moisture regimes, and be able to recognize these from nonhydric mollisols.

(f) Entisols (floodplain and sandy soils) - Entisols are usually young or recently formed soils that have little or no evidence of pedogenically developed horizons. These soils are typical of floodplains throughout Washington, but are also found in glacial outwash plains, along tidal waters, and in other areas. They include sandy soils of riverine islands, bars, and banks and finer-textured soils of floodplain terraces. Wet entisols have an aquic or peraquic moisture regime and are considered wetland soils. Some entisols are easily recognized as hydric soils such as the sulfaquents of tidal salt marshes, whereas others pose problems because they do not possess typical hydric soil field indicators. Wet sandy entisols (with loamy fine sand and coarser textures in horizons within 20 inches of the surface) may lack sufficient organic matter and clay to develop hydric soil colors. When these soils have a hue between 10YR and 10Y and distinct or prominent mottles present, a chroma of 3 or less is permitted to identify the soil as hydric (i.e., an aquic moisture regime). Also, hydrologic data showing that NTCHS criteria # 3 or # 4 are met are sufficient to verify these soils as hydric.

(g) Red parent material and volcanic ash soils - Hydric mineral soil derived from red parent materials (e.g., weathered clays, Triassic sandstones, and Triassic shales) may lack the low chroma colors characteristic of most hydric mineral soils. In these soils, the hue is redder than 10YR because of parent materials that remain red after citrate-dithionite extraction, so the low chroma requirement for hydric soil is waived. Additionally, some hydric soils in Washington that are influenced by volcanic ash or other volcanic material may not exhibit hydric soil indicators.

(h) Spodosols (evergreen forest soils) - These soils are usually associated with coniferous forests. Spodosols have a gray eluvial E-horizon overlying a diagnostic spodic horizon of accumulated (sometimes weakly cemented) organic matter and aluminum. A process called podzolization is responsible for creating these two soil layers. Organic acids from the leaf litter on the soil surface are moved downward through the soil with rainfall, cleaning the sand grains in the first horizon then coating the sand grains with organic matter and iron oxides in the second layer. Certain vegetation produces organic acids that speed podzolization including western hemlock (*Tsuga heterophylla),* spruces (*Picea* spp.), pine (*Pinus* spp.), larches (*Larix* spp.), and oaks (*Quercus* spp.) (Buol, *et al,* 1980). To the untrained observer, the gray leached layer may be mistaken as a field indicator of hydric soil, but if one looks below the spodic horizon the brighter matrix colors often distinguish nonhydric spodosols from hydric ones. The wet spodosols (formerly called "ground water podzolic soils") usually have thick dark surface horizons, dull gray E-horizons, and low chroma subsoils.

(i) Interdunal swale wetlands - Along the Washington coastline, seasonally wet swales supporting hydrophytic vegetation are located within sand dune complexes on barrier islands and beaches. Some of these swales are inundated or saturated to the surface for considerable periods during the growing season, while others are wet for only the early part of the season. In some cases, swales may be flooded irregularly by the tides. These wetlands have sandy soils that generally lack field indicators of hydric soil. In addition, indicators of wetland hydrology may be absent during the drier part of the growing season. Consequently, these wetlands may be difficult to identify.

(j) Vegetated river bars and adjacent flats - Along streams, particularly in arid and semiarid parts of the state, some river bars and flats may be vegetated by FACU species while others may be colonized by wetter species. If these areas are frequently inundated for ≥12.5% of the growing season, they are wetlands. The soils often do not reflect the characteristic field indicators of hydric soils, however, and thereby pose delineation problems.

[Statutory Authority: RCW 90.58.140(3) and [90.58].200. 97-04-076 (Order 96-12), § 173-22-080, filed 2/5/97, effective 3/8/97.]

Chapter 173-24 WAC

TAX EXEMPTIONS AND CREDITS FOR POLLUTION CONTROL FACILITIES

WAC

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173-24-120	Treatment before connection to utilities.
173-24-125	Revision of prior findings.
173-24-130	Administrative appeal of department decision.
173-24-140	Delegation.
173-24-150	Delegation of state responsibilities under federal program.

WAC 173-24-010 Introduction and purpose. Chapter 82.34 RCW provides for tax credits and exemptions for pollution control facilities approved by the appropriate control agency. The purposes of this rule are to:

(1) Establish a procedure for reviewing applications for tax benefits received from the department of revenue for review by the department of ecology; and

(2) Establish criteria for identifying the individual facilities within each application and, for each facility, either:

(a) Approve the facility;

(b) Approve the facility as a "dual purpose pollution control facility"; or

(c) Deny the facility.

[Statutory Authority: Chapter 82.34 RCW. 00-20-009 (Order 00-20), § 173-24-010, filed 9/22/00, effective 10/23/00. Statutory Authority: RCW 43.21A.080 and 43.21A.090 and chapter 82.34 RCW. 78-04-015 (Order DE 78-2), § 173-24-010, filed 3/14/78; Order DE 70-7, § 173-24-010, filed 8/4/71.]

WAC 173-24-020 Authority. This rule is adopted under the authority granted the director of the department of ecology by RCW 43.21A.080 and 43.21A.090.

[Statutory Authority: Chapter 82.34 RCW. 00-20-009 (Order 00-20), § 173-24-020, filed 9/22/00, effective 10/23/00; Order DE 70-7, § 173-24-020, filed 8/4/71.]

WAC 173-24-030 Definitions. Unless a different meaning is plainly required by the context, the following words as used in this chapter have the following meanings:

(1) "Commercial or industrial operation" means the industrial, manufacturing, waste disposal, utility or other commercial establishment operated by an applicant for a certificate under chapter 82.34 RCW.

(2) "Department" means the Washington state department of ecology.

(3) "Dual purpose pollution control facility" or "dual purpose facility" means a facility in which the portion for the purpose of pollution control is so integrated into the total facility with portions for other purposes that separation into identifiable component parts is not possible.

(4) "Facility" means any treatment works, control device, disposal system, machinery, equipment, structure or property for which a certificate is applied for under chapter 82.34 RCW or any physically or conceptually identifiable part or accessory thereof.

(5) "Necessary to the manufacture of products" means that without which manufacture of products at the present or proposed level could not be undertaken.

If the manufacture of products could be undertaken at present levels without a facility, even though the manufacture would be uneconomical or impractical, such a facility is not necessary to the manufacture of products. However, if a commercial or industrial operation is recovering or producing chemicals or heat for use in the manufacturing process at the time it submits an application, then any facilities necessary for production or for recovery of chemicals at present percentage rates will be considered necessary to the manufacture of products.

(6) "Pollution" means "air contaminant" and "air pollution" as defined in RCW 70.94.030, and "pollution" as defined in RCW 90.48.020.

(7) "Products" as used in the phrase, "manufacture of products," includes the item or items which an industrial operation is designed primarily to manufacture or produce.

(8) "Regional or local air pollution control authority" means any local or regional entity or control program considered as an "authority" for the purpose of chapter 70.94 RCW.

(9) "Single purpose facility" means a facility other than a dual purpose facility.

[Statutory Authority: Chapter 82.34 RCW. 00-20-009 (Order 00-20), § 173-24-030, filed 9/22/00, effective 10/23/00. Statutory Authority: RCW 43.21A.080 and 43.21A.090 and chapter 82.34 RCW. 78-04-015 (Order DE 78-2), § 173-24-030, filed 3/14/78; Order DE 70-7, § 173-24-030, filed 8/4/71.]

WAC 173-24-040 Applications submitted to the department of revenue. Applications filed under RCW 82.34.020 must be submitted to the department of revenue in accordance with that department's requirements. The department of revenue will supply an identifying application number and forward the application to the department or regional or local air pollution control authority, as appropriate, for review under RCW 82.34.030.

[Statutory Authority: Chapter 82.34 RCW. 00-20-009 (Order 00-20), § 173-24-040, filed 9/22/00, effective 10/23/00; Order DE 70-7, § 173-24-040, filed 8/4/71.]

WAC 173-24-050 Applications reviewed by the department. The department will review applications for approval of facilities that may be designated "water pollution control facilities" as defined in RCW 82.34.010 (1)(b). The department will also review any application relating to a facility that is not within the jurisdiction of an activated regional or local air pollution control authority, or that is within any area over which the department has assumed jurisdiction under RCW 70.94.390. The department will also review any application for approval of a facility relating to any air contaminant source subject to rules adopted by the department or its predecessor agencies under RCW 70.94.395.

The department will, when necessary, advise the department of revenue of the proper agency or agencies to which an application is to be submitted for review.

[Statutory Authority: Chapter 82.34 RCW. 00-20-009 (Order 00-20), § 173-24-050, filed 9/22/00, effective 10/23/00; Order DE 70-7, § 173-24-050, filed 8/4/71.]

WAC 173-24-060 Action by the department within thirty days—Request for further information. The department shall, within thirty days of receipt of an application from the department of revenue, make the identification and classification described in WAC 173-24-070 and approval or denial described in WAC 173-24-080, or it shall request further information from the applicant. A copy of any request from the department to the applicant for further information must be transmitted to the department of revenue. The failure of the applicant to supply any additional information requested by the department, without reasonable grounds for such a failure, may result in disapproval of all or part of the application.

The department shall notify the department of revenue, in writing, of its decisions on any application submitted and shall send a copy of the notification to the applicant by certified mail.

[Statutory Authority: Chapter 82.34 RCW. 00-20-009 (Order 00-20), § 173-24-060, filed 9/22/00, effective 10/23/00. Statutory Authority: RCW 43.21A.080 and 43.21A.090 and chapter 82.34 RCW. 78-04-015 (Order DE 78-2), § 173-24-060, filed 3/14/78; Order DE 70-7, § 173-24-060, filed 8/4/71.]

WAC 173-24-070 Identification and classification of facilities. The department will review each application to determine whether the facility is a single, integrated facility, or can be separated, either physically or conceptually, into identifiable component parts. Each component part must be considered as a separate facility for the purpose of the department's review of the application. The department will identify all those facilities within each application.

For each facility identified, the department shall classify it as a "dual purpose facility" or a "single purpose facility."

[Statutory Authority: Chapter 82.34 RCW. 00-20-009 (Order 00-20), § 173-24-070, filed 9/22/00, effective 10/23/00. Statutory Authority: RCW 43.21A.080 and 43.21A.090 and chapter 82.34 RCW. 78-04-015 (Order DE 78-2), § 173-24-070, filed 3/14/78; Order DE 70-7, § 173-24-070, filed 8/4/71.]

WAC 173-24-080 Approval of a facility. The department shall approve any facility when:

(1) It was installed or intended to be installed for the primary purpose of pollution control, and;

(2) When it is operated or intended to be operated primarily for the purpose of pollution control, and;

(3) When it is suitable, reasonably adequate, and meets the intent and purposes of chapter 70.94 or 90.48 RCW;

If the facility does not meet these criteria, it must be denied.

[Statutory Authority: Chapter 82.34 RCW. 00-20-009 (Order 00-20), § 173-24-080, filed 9/22/00, effective 10/23/00. Statutory Authority: RCW 43.21A.080 and 43.21A.090 and chapter 82.34 RCW. 78-04-015 (Order DE 78-2), § 173-24-080, filed 3/14/78; Order DE 70-7, § 173-24-080, filed 8/4/71.]

WAC 173-24-090 Installation for the purpose of pollution control. A facility will be considered to be installed or intended to be installed for the primary purpose of pollution control when:

(1) It was installed or intended to be installed in response to a requirement of the department or a regional or local air pollution control authority contained in a permit, order, or rule that applies to the particular industry or commercial establishment in question, and such a facility meets or exceeds the requirements of such a permit, order, or rule; and

(2) It was installed in conformance with a requirement developed under chapter 90.48 or 70.94 RCW and not under some other statute administered by the department such as, for example, chapter 70.95 or 70.105 RCW.

[Statutory Authority: Chapter 82.34 RCW. 00-20-009 (Order 00-20), § 173-24-090, filed 9/22/00, effective 10/23/00. Statutory Authority: Chapter 82.34 RCW, RCW 43.21A.080, and 43.21A.090. 80-15-020 (Order DE 80-33), § 173-24-090, filed 10/7/80; Order DE 70-7, § 173-24-090, filed 8/4/71.]

WAC 173-24-100 Operation for the purpose of pollution control. A facility is operated or intended to be operated primarily for the purpose of pollution control when:

(1) The emissions or effluents from the commercial or industrial operation do or will contain measurably less pollution with the facility installed than they would without the facility installed, and;

(2) For a facility, other than a dual purpose facility, it is not necessary to the manufacture of products.

[Statutory Authority: Chapter 82.34 RCW. 00-20-009 (Order 00-20), § 173-24-100, filed 9/22/00, effective 10/23/00. Statutory Authority: RCW 43.21A.080 and 43.21A.090 and chapter 82.34 RCW. 78-04-015 (Order DE 78-2), § 173-24-100, filed 3/14/78; Order DE 70-7, § 173-24-100, filed 8/4/71.]

WAC 173-24-110 Meeting the intent and purposes of chapters 70.94 and 90.48 RCW. A facility is suitable, reasonably adequate, and meets the intent and purposes of chapters 70.94 and 90.48 RCW, when:

(1) Normal operation of the particular commercial or industrial operation with the facility installed will not be in violation of any provision of chapter 70.94 or 90.48 RCW and;

(2) Such an operation will meet the requirements of any applicable permits, orders, rules or standards of the department or a regional or local air pollution control authority.

[Statutory Authority: Chapter 82.34 RCW. 00-20-009 (Order 00-20), § 173-24-110, filed 9/22/00, effective 10/23/00. Statutory Authority: RCW 43.21A.080 and 43.21A.090 and chapter 82.34 RCW. 78-04-015 (Order DE 78-2), § 173-24-110, filed 3/14/78; Order DE 70-7, § 173-24-110, filed 8/4/71.]

WAC 173-24-120 Treatment before connection to utilities. Any facility designed for the primary purpose of reducing, controlling, disposing of, or treating industrial or commercial wastes before the ultimate conveyance thereof to the waste collecting facilities of public or privately owned utilities must be approved if it satisfies the requirements set forth in this chapter. However, any facility installed or constructed for the primary purpose of connecting any commercial establishment with the waste collecting facilities of public or privately owned utilities may not be eligible for approval.

[Statutory Authority: Chapter 82.34 RCW. 00-20-009 (Order 00-20), § 173-24-120, filed 9/22/00, effective 10/23/00; Order DE 70-7, § 173-24-120, filed 8/4/71.]

WAC 173-24-125 Revision of prior findings. On its own initiative or in compliance with the local or regional air pollution control agency in which an air pollution control facility is located, the department may revise the prior findings of the appropriate control agency whenever it appears that any of the conditions listed in RCW 82.34.100 (1) or (2) have been met or when the department determines that the prior determination had been made in error.

[Statutory Authority: Chapter 82.34 RCW. 00-20-009 (Order 00-20), § 173-24-125, filed 9/22/00, effective 10/23/00. Statutory Authority: Chapter 82.34 RCW, RCW 43.21A.080, and 43.21A.090. 80-15-020 (Order DE 80-33), § 173-24-125, filed 10/7/80.]

WAC 173-24-130 Administrative appeal of department decision. The approval or disapproval by the department under RCW 82.34.030 of any application, or any revision of prior findings by the department under RCW 82.34.100 shall constitute a decision of the department subject to review by the pollution control hearings board in accordance with chapter 43.21B RCW. Any aggrieved party may appeal any decision in accordance with the rules of the pollution control hearings board no later than thirty days after receipt of written notice thereof.

[Statutory Authority: Chapter 82.34 RCW. 00-20-009 (Order 00-20), § 173-24-130, filed 9/22/00, effective 10/23/00; Order DE 70-7, § 173-24-130, filed 8/4/71.]

WAC 173-24-140 Delegation. The powers, duties, and functions vested in the department by chapter 82.34 RCW, will be performed by the deputy director of the department or his or her delegate.

[Statutory Authority: Chapter 82.34 RCW. 00-20-009 (Order 00-20), § 173-24-140, filed 9/22/00, effective 10/23/00. Statutory Authority: RCW 43.21A.080 and 43.21A.090 and chapter 82.34 RCW. 78-04-015 (Order DE 78-2), § 173-24-140, filed 3/14/78; Order DE 70-7, § 173-24-140, filed 8/4/71.]

WAC 173-24-150 Delegation of state responsibilities under federal program. The functions of the "state certifying authority" for the federal tax credit program for pollution

control facilities must be performed by the deputy director of the department or his or her delegate.

[Statutory Authority: Chapter 82.34 RCW. 00-20-009 (Order 00-20), § 173-24-150, filed 9/22/00, effective 10/23/00. Statutory Authority: RCW 43.21A.080 and 43.21A.090 and chapter 82.34 RCW. 78-04-015 (Order DE 78-2), § 173-24-150, filed 3/14/78; Order DE 70-7, § 173-24-150, filed 8/4/71.]

Chapter 173-26 WAC

STATE MASTER PROGRAM APPROVAL/AMENDMENT PROCEDURES AND SHORELINE MASTER PROGRAM GUIDELINES

WAC

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WAC 173-26-010 Authority and purpose. The provisions of this chapter implement the requirements of chapter 90.58 RCW, the Shoreline Management Act of 1971. RCW 90.58.200 authorizes the adoption of rules by the department as necessary and appropriate to carry out the provisions of the act. RCW 90.58.080 directs local governments to develop and administer local shoreline master programs for regulation of uses on shorelines of the state. Such local programs should be integrated with other local government systems for administration and enforcement of land use regulations. RCW 36.70A.480 provides that the goals and policies contained in a local shoreline master program shall be considered an element of the local comprehensive plan required by the Growth Management Act. All other portions of the local shoreline master program, including the use regulations, are considered a part of the local development regulations required by the Growth Management Act.

This chapter is drafted to also reflect RCW 90.58.050 which provides that the Shoreline Management Act is intended to be a cooperative program between local government and the state. It is the intent of this chapter to provide minimum procedural requirements as necessary to comply with the statutory requirements while providing latitude for local government to establish procedural systems based on local needs and circumstances.

Pursuant to the Shoreline Management Act, the department must approve master programs prepared by local governments or adopt them by rule consistent with the act. In order to facilitate this process, Part I of this chapter establishes a recordkeeping system for the department and defines the contents of the state master program. Part II sets forth procedures for approving and adopting master programs and amendments thereto. Parts III and IV comprise the guidelines pursuant to RCW 90.58.060 and provide alternative approaches to developing the content of shoreline master programs. Part V addresses the requirements of the state Ocean Resources Management Act.

[Statutory Authority: RCW 90.58.060 and 90.58.200. 00-24-031 (Order 95-17a), § 173-26-010, filed 11/29/00, effective 12/30/00. Statutory Authority: RCW 90.58.140(3) and [90.58].200. 96-20-075 (Order 95-17), § 173-26-010, filed 9/30/96, effective 10/31/96.]

WAC 173-26-020 Definitions. As used herein, the following words and phrases shall have the following meanings:

(1) "Act" means the Washington State Shoreline Management Act, chapter 90.58 RCW.

(2) "Adaptive management" means the modification of management practices to address changing conditions and new knowledge. Adaptive management is an approach that incorporates monitoring and research to allow projects and activities, including projects designed to produce environmental benefits, to go forward in the face of some uncertainty regarding consequences. The key provision of adaptive management is the responsibility to change adaptively in response to new understanding or information after an action is initiated.

(3) "Adoption by rule" means an official action by the department to make a local government shoreline master program effective through rule consistent with the requirements of the Administrative Procedure Act, chapter 34.05 RCW, thereby incorporating the adopted shoreline master program or amendment into the state master program.

(4) "Amendment" means a revision, update, addition, deletion, and/or reenactment to an existing shoreline master program.

(5) "Approval" means an official action by a local government legislative body agreeing to submit a proposed shoreline master program or amendments to the department for review and official action pursuant to this chapter; or an official action by the department to make a local government shoreline master program effective, thereby incorporating the approved shoreline master program or amendment into the state master program.

(6) "Aquatic" means pertaining to those areas waterward of the ordinary high-water mark.

(7) "Bank full width" means the horizontal projection of bank full depth to the stream bank. Bank full depth means the elevation of the water surface of a stream flow having a return period of approximately 1.5 years measured from the line of maximum depth of the stream or thalweg. Most river channels are bordered by a relatively flat area or valley floor. When the water fills the channel completely, or is at bank full stage, this surface is level with the flood plain. The stream cuts down or builds up as climate and watershed conditions change because there is a new relation between discharge and sediment transport and storage. The channel will erode or modify its flood plain in response to changes in discharge and sediment. The former flood plain it had been constructing is thus abandoned. An abandoned flood plain is called a terrace. While a terrace is flooded on occasion, the active flood plain is frequently flooded by discharges that occur approximately every 1.5 years to 2.0 years in the annual flood series. In those valleys that narrowly confine the channel such that no flood plain can be built, this bank full stage projection still applies.

(8) "Channel migration zone (CMZ)" means the lateral extent of likely movement along a stream reach with evidence of active stream channel movement over the past one hundred years. Evidence of active movement can be provided from aerial photos or specific channel and valley bottom characteristics. A time frame of one hundred years was chosen because aerial photos and field evidence can be used to evaluate movement in this time frame. Also, this time span typically represents the time it takes to grow mature trees that can provide functional large woody debris to most streams. In large meandering rivers a more detailed analysis can be conducted to relate bank erosion processes and the time required to grow trees that function as stable large woody debris.

With the exception of shorelands in or meeting the criteria for the "natural" and "rural conservancy" environments, areas separated from the active channel by legally existing artificial channel constraints that limit bank erosion and channel avulsion without hydraulic connections shall not be considered within the CMZ. All areas, including areas within the "natural" and "rural conservancy" environments, separated from the natural channel by legally existing structures designed to withstand the 100-year flood shall not be considered within the CMZ. A tributary stream or other hydraulic connection allowing T&E species fish passage draining through a dike or other constricting structure shall be considered part of the CMZ.

(9) "Department" means the state department of ecology.

(10) "Developed shorelines" means those shoreline areas that are characterized by existing development or permanent structures located within shoreline jurisdiction.

(11) "Development regulations" means the controls placed on development or land uses by a county or city, including, but not limited to, zoning ordinances, critical areas ordinances, all portions of a shoreline master program other than goals and policies approved or adopted under chapter 90.58 RCW, planned unit development ordinances, subdivision ordinances, and binding site plan ordinances together with any amendments thereto.

(12) "Document of record" means the most current shoreline master program officially approved or adopted by rule by the department for a given local government jurisdiction, including any changes resulting from appeals filed pursuant to RCW 90.58.190.

(13) "Drift cell," "drift sector," or "littoral cell" means a particular reach of marine shore in which littoral drift may occur without significant interruption and which contains any natural sources of such drift and also accretion shore forms created by such drift.

(14) "Ecological functions" or "shoreline functions" means the physical, chemical, and biological processes that contribute to the proper maintenance of the aquatic and terrestrial environments that constitute the shoreline ecosystem. Ecological functions relevant to specific shoreline ecological systems include, but are not limited to:

(a) Riverine:

• Hydrologic processes: Maintaining a natural range of flow variability, sideflow and overflow channel functions, reducing peak flows and downstream erosion, and helping to maintain base flows.

• Water quality: Temperature; removing excessive nutrients and toxic compounds.

• Dynamic sediment processes: Sediment removal, stabilization, transport, deposition, and providing spawning gravels.

• Habitat for: Threatened, endangered, and priority species (whatever they may be in the jurisdiction); aquatic and shoreline-dependent birds, invertebrates, and mammals; amphibians; and anadromous and resident native fish. Habitat functions may include, but are not limited to, shade, litter and woody debris recruitment, refugia, and food production.

• Hyporheic functions: Water quality, water storage, vegetation base, and sediment storage.

(b) Lacustrine:

• Water quality: Removing excessive nutrients and toxic compounds and removing and/or stabilizing sediments.

• Habitat for: Threatened, endangered, and priority species (whatever they may be in the jurisdiction); aquatic and shoreline-dependent birds, invertebrates, and mammals; amphibians; and anadromous and resident native fish. Habitat functions may include, but are not limited to, shade, litter and woody debris recruitment, refugia, and food production.

(c) Marine:

• Water quality: Removing excessive nutrients and toxic compounds.

• Dynamic sediment processes: Sediment removal, stabilization, transport, deposition, and providing spawning gravels.

• Wave attenuation.

• Habitat for: Threatened, endangered, and priority species (whatever they may be in the jurisdiction); aquatic and shoreline-dependent birds, invertebrates, and mammals; amphibians; and anadromous and resident native fish. Habitat functions may include, but are not limited to, shade, litter and woody debris recruitment, refugia, and food production.

(d) Wetlands:

• Flood attenuation.

• Water quality: Removing excessive sediment, nutrients, and toxic compounds.

• Ground water recharge.

• Maintenance of base flows.

• Nutrient filtering.

• Habitat for: Threatened, endangered, and priority species (whatever they may be in the jurisdiction); aquatic and shoreline-dependent birds, invertebrates, and mammals; amphibians; and anadromous and resident native fish. Habitat functions may include, but are not limited to, shade, litter and woody debris recruitment, refugia, and food production.

When used in Part IV, sections 270 through 350 of this chapter, the term "ecological functions" shall include all functions necessary for properly functioning condition for T&E species.

(15) "Ecologically altered shorelines" means those shorelines where humans have directly or indirectly modified the vegetation or shoreline configuration in a manner that significantly influences or reduces the natural shoreline functions.

(16) "Ecologically intact shorelines" means those shoreline areas that retain the majority of their natural shoreline functions, as evidenced by the shoreline configuration and the presence of native vegetation. Generally, but not necessarily, ecologically intact shorelines are free of structural shoreline modifications, structures, and intensive human uses. In unmanaged forested areas, they generally include native vegetation with diverse plant communities, multiple canopy layers, and the presence of large woody debris available for recruitment to adjacent water bodies.

Recognizing that there is a continuum of ecological conditions ranging from near natural conditions to totally degraded and contaminated sites, this term is intended to delineate those shoreline areas that provide valuable functions for the larger aquatic and terrestrial environments which could be lost or significantly reduced by human development. Whether or not a shoreline is ecologically intact is determined on a case-by-case basis.

The term "ecologically intact shorelines" applies to all shoreline areas meeting the above criteria ranging from larger reaches that may include multiple properties to small areas located within a single property.

(17) "Ecosystem-wide processes" means the suite of naturally occurring physical and geologic processes of erosion, transport, and deposition and specific chemical processes (e.g., flocculation) that shape landforms within a specific shoreline ecosystem and determine both the types of habitat that are present and the associated ecological functions and their processes. Ecosystem-wide processes include, but are not limited to:

(a) Riverine processes: Landform and channel erosion; sediment transport and load in channel and overbank; channel dynamics, including channel gradation and migration; and changes in channel form during flooding.

(b) Lacustrine, tidal, wave, and current processes: Wave erosion (including refraction), littoral drift, vertical transport, and tidal erosion and deposition.

(18) "Feasible" means, for the purpose of this chapter, that an action, such as a development project, mitigation, or preservation requirement, meets all of the following conditions:

(a) The action can be accomplished with technologies and methods that have been used in the past in similar circumstances, or studies or tests have demonstrated in similar circumstances that such approaches are currently available and likely to achieve the intended results;

(b) The action provides a reasonable likelihood of achieving its intended purpose; and

(c) The action does not physically preclude achieving the project's primary intended legal use.

In cases where these guidelines require certain actions unless they are infeasible, the burden of proving infeasibility is on the applicant.

In determining an action's infeasibility, the reviewing agency may weigh the action's relative public costs and public benefits, considered in the short- and long-term time frames. For the provisions of Part IV, this evaluation shall give special consideration and precedence to protecting PFC for T&E species.

(19) "Fill" means the addition of soil, sand, rock, gravel, sediment, earth retaining structure, or other material to an area waterward of the OHWM, in wetlands, or on shorelands in a manner that raises the elevation or creates dry land.

(20) "Flood plain" is synonymous with one hundred-year floodplain and means that land area susceptible to inundation with a one percent chance of being equaled or exceeded in any given year. The limit of this area shall be based upon flood ordinance regulation maps or a reasonable method which meets the objectives of the act.

(21) "Geotechnical report" or "geotechnical analysis" means a scientific study or evaluation conducted by a qualified expert that includes a description of the ground and surface hydrology and geology, the affected land form and its susceptibility to mass wasting, erosion, and other geologic hazards or processes, conclusions and recommendations regarding the effect of the proposed development on geologic conditions, the adequacy of the site to be developed, the impacts of the proposed development, alternative approaches to the proposed development, and measures to mitigate potential site-specific and cumulative geological and hydrological impacts of the proposed development, including the potential adverse impacts to adjacent and down-current properties. Geotechnical reports shall conform to accepted technical standards and must be prepared by qualified professional

engineers (or geologists) who have professional expertise about the regional and local shoreline geology and processes.

(22) "Grading" means the movement or redistribution of the soil, sand, rock, gravel, sediment, or other material on a site in a manner that alters the natural contour of the land.

(23) "Guidelines" means those standards adopted by the department to implement the policy of chapter 90.58 RCW for regulation of use of the shorelines of the state prior to adoption of master programs. Such standards shall also provide criteria for local governments and the department in developing and amending master programs.

(24) "In-stream structure" means a structure placed by humans within a stream or river waterward of the bank full width that either causes or has the potential to cause water impoundment or the diversion, obstruction, or modification of water flow. In-stream structures may include those for hydroelectric generation, irrigation, water supply, flood control, transportation, utility service transmission, fish habitat enhancement, or other purpose.

(25) "Lacustrine" means pertaining to a lake.

(26) "Letter of exemption" means a letter or other official certificate issued by a local government to indicate that a proposed development is exempted from the requirement to obtain a shoreline permit as provided in WAC 173-27-050. Letters of exemption may include conditions or other provisions placed on the proposal in order to ensure consistency with the Shoreline Management Act, this chapter, and the applicable master program.

(27) "Local government" means any county, incorporated city or town which contains within its boundaries shorelines of the state subject to chapter 90.58 RCW.

(28) "Marine" means pertaining to tidally influenced waters, including oceans, sounds, straits, marine channels, and estuaries.

(29) "May" means the action is acceptable, provided it conforms to the provisions of this chapter.

(30) "Mitigation" or "mitigation sequencing" means the following sequence of steps listed in order of priority, with (a) of this subsection being top priority.

(a) Avoiding the impact altogether by not taking a certain action or parts of an action;

(b) Minimizing impacts by limiting the degree or magnitude of the action and its implementation by using appropriate technology or by taking affirmative steps to avoid or reduce impacts;

(c) Rectifying the impact by repairing, rehabilitating, or restoring the affected environment;

(d) Reducing or eliminating the impact over time by preservation and maintenance operations;

(e) Compensating for the impact by replacing, enhancing, or providing substitute resources or environments; and

(f) Monitoring the impact and the compensation projects and taking appropriate corrective measures.

(31) "Must" means a mandate; the action is required.

(32) "Nonpoint pollution" means pollution that enters any waters of the state from any dispersed land-based or water-based activities, including, but not limited to, atmospheric deposition, surface water runoff from agricultural lands, urban areas, or forest lands, subsurface or underground sources, or discharges from boats or marine vessels not otherwise regulated under the National Pollutant Discharge Elimination System program.

(33) "Nonwater-oriented uses" means those uses that are not water-dependent, water-related, or water-enjoyment.

(34) "Priority habitat" means a habitat type with unique or significant value to one or more species. An area classified and mapped as priority habitat must have one or more of the following attributes:

- Comparatively high fish or wildlife density;
- Comparatively high fish or wildlife species diversity;
- Fish spawning habitat;
- Important wildlife habitat;
- Important fish or wildlife seasonal range;
- Important fish or wildlife movement corridor;
- Rearing and foraging habitat;
- Important marine mammal haul-out;
- Refugia habitat;
- Limited availability;
- High vulnerability to habitat alteration;
- Unique or dependent species; or
- Shellfish bed.

A priority habitat may be described by a unique vegetation type or by a dominant plant species that is of primary importance to fish and wildlife (such as oak woodlands or eelgrass meadows). A priority habitat may also be described by a successional stage (such as, old growth and mature forests). Alternatively, a priority habitat may consist of a specific habitat element (such as a consolidated marine/estuarine shoreline, talus slopes, caves, snags) of key value to fish and wildlife. A priority habitat may contain priority and/or nonpriority fish and wildlife.

(35) "Priority species" means species requiring protective measures and/or management guidelines to ensure their persistence at genetically viable population levels. Priority species are those that meet any of the criteria listed below.

(a) Criterion 1. State-listed or state proposed species. State-listed species are those native fish and wildlife species legally designated as endangered (WAC 232-12-014), threatened (WAC 232-12-011), or sensitive (WAC 232-12-011). State proposed species are those fish and wildlife species that will be reviewed by the department of fish and wildlife (POL-M-6001) for possible listing as endangered, threatened, or sensitive according to the process and criteria defined in WAC 232-12-297.

(b) Criterion 2. Vulnerable aggregations. Vulnerable aggregations include those species or groups of animals susceptible to significant population declines, within a specific area or statewide, by virtue of their inclination to congregate. Examples include heron colonies, seabird concentrations, and marine mammal congregations.

(c) Criterion 3. Species of recreational, commercial, and/or tribal importance. Native and nonnative fish, shellfish, and wildlife species of recreational or commercial importance and recognized species used for tribal ceremonial and subsistence purposes that are vulnerable to habitat loss or degradation.

(d) Criterion 4. Species listed under the federal Endangered Species Act as either proposed, threatened, or endangered.

(36) "Properly functioning condition" or "PFC" means conditions that create and sustain natural habitat-affecting processes (such as sediment routing, riverine community succession, precipitation runoff patterns, a natural range of flow variability and channel migration) over the full range of environmental variation and that support productivity at a viable population level of T&E species. The term "properly functioning condition" indicates a level of performance for a subset of the more broadly defined "ecological functions," reflecting what is necessary for the recovery of T&E species.

(37) "Provisions" means policies, regulations, standards, guideline criteria or environment designations.

(38) "Restoration" or "ecological restoration" means the significant reestablishment or upgrading of ecological shoreline functions through measures such as revegetation, removal of intrusive shoreline structures and removal or treatment of toxic materials. Restoration does not necessarily imply returning the shoreline area to aboriginal or pre-European settlement conditions.

(39) "Restore" means to significantly reestablish or upgrade shoreline ecological functions through measures such as revegetation, removal of intrusive shoreline structures, and removal or treatment of toxic sediments. To restore does not necessarily imply returning the shoreline area to aboriginal or pre-European settlement conditions.

(40) "Riverine" means pertaining to a river or stream system, including associated lakes and wetlands.

(41) "Shall" means a mandate; the action must be done.

(42) "Shoreline areas" and "shoreline jurisdiction" means all "shorelines of the state" and "shorelands" as defined in RCW 90.58.030.

(43) "Shoreline master program" or "master program" means the comprehensive use plan for a described area, and the use regulations together with maps, diagrams, charts, or other descriptive material and text, a statement of desired goals, and standards developed in accordance with the policies enunciated in RCW 90.58.020.

As provided in RCW 36.70A.480, the goals and policies of a shoreline master program for a county or city approved under chapter 90.58 RCW shall be considered an element of the county or city's comprehensive plan. All other portions of the shoreline master program for a county or city adopted under chapter 90.58 RCW, including use regulations, shall be considered a part of the county or city's development regulations; and

(44) "Shoreline modifications" means those actions that modify the physical configuration or qualities of the shoreline area, usually through the construction of a physical element such as a dike, breakwater, pier, weir, dredged basin, fill, bulkhead, or other shoreline structure. They can include other actions, such as clearing, grading, or application of chemicals.

(45) "Shoreline property" means an individual property wholly or partially within shoreline jurisdiction.

(46) "Should" means that the particular action is required unless there is a demonstrated, compelling reason, based on policy of the Shoreline Management Act and this chapter, against taking the action.

(47) "Significant ecological impact" means an effect or consequence of a human-caused action if any of the following apply:

(a) The action degrades or changes an ecological function or ecosystem-wide process to such a degree that the ecosystem can no longer perform the function at levels within its natural range of variability or that the performance of the function falls outside the range needed to maintain the integrity of other ecological processes in shoreline areas. As used in this definition, the normal range of variability does not include alterations caused by catastrophic events.

(b) Scientific evidence or objective analysis indicates that the action could cause degradation or change to those ecological functions or ecosystem-wide processes described in (a) of this subsection under foreseeable conditions.

(c) Scientific evidence indicates that the action could contribute to degradation or change to ecological functions or ecosystem-wide processes described in (a) of this subsection as part of cumulative impacts, due to similar actions that are occurring or are likely to occur.

Significant ecological impacts do not include impacts that are inconsequential to attaining the objectives of the act or to the protection and restoration of shoreline ecological functions or ecosystem-wide processes.

(48) "Significant vegetation removal" means the removal or alteration of trees, shrubs, and/or ground cover by clearing, grading, cutting, burning, chemical means, or other activity that causes significant ecological impacts to functions provided by such vegetation. The removal of invasive or noxious weeds does not constitute significant vegetation removal. Tree pruning, not including tree topping, where it does not affect ecological functions, does not constitute significant vegetation removal.

(49) "Site potential tree height" means the average height, at age one hundred years, of the tallest mature native tree species that is capable of growing in the soils found at the site and for which height measurements are noted in the soil survey reports published by the natural resource conservation service and other sources. Each local natural resource conservation service field office maintains the surveys for its area.

(a) West of the Cascade summit, the site potential tree height will generally be based on either Douglas fir or western hemlock, unless based on another species due to local conditions. East of the summit, the species could be ponderosa pine, lodgepole pine, western larch, Englemann spruce, subalpine fir, grand fir, or Douglas fir.

(b) For sites that historically supported cottonwoods as the largest tree, the site potential tree height generally is the average height, at age seventy-five years, of a black cottonwood tree growing under those site conditions.

(50) "State master program" means the cumulative total of all shoreline master programs and amendments thereto approved or adopted by rule by the department.

(51) "Storm water" means that portion of precipitation that does not normally percolate into the ground or evaporate but flows via overland flow, interflow, channels, or pipes into a defined surface water channel or constructed infiltration facility.

(52) "Substantially degrade" means to cause significant ecological impact.

(53) "Threatened and endangered species" or "T&E species" means those native species that are listed in rule by the Washington state department of fish and wildlife pursuant to RCW 77.12.020 as threatened (WAC 232-12-011) or endangered (WAC 232-12-014), or that are listed as threatened or endangered species under the federal Endangered Species Act, 16 U.S.C. 1533.

(54) "Water-dependent use" means a use or portion of a use which cannot exist in a location that is not adjacent to the water but is dependent on the water by reason of the intrinsic nature of its operations. Examples of water-dependent uses include ship cargo terminal loading areas, fishing, ferry and passenger terminals, barge loading facilities, ship building and dry docking, marinas, aquaculture, float plane facilities, hydroelectric dams, surface water intake, and sewer outfalls.

(55) "Water-enjoyment use" means a recreational use or other use that facilitates public access to the shoreline as a primary characteristic of the use; or a use that provides for recreational use or aesthetic enjoyment of the shoreline for a substantial number of people as a general characteristic of the use and which through location, design, and operation ensures the public's ability to enjoy the physical and aesthetic qualities of the shoreline. In order to qualify as a water-enjoyment use, the use must be open to the general public and the shoreline-oriented space within the project must be devoted to the specific aspects of the use that fosters shoreline enjoyment. Primary water-enjoyment uses may include, but are not limited to:

- Parks with activities enhanced by proximity to the water;
- Piers and other improvements that facilitate public access to shorelines of the state;
- Restaurants with water views and public access improvements;
- Museums with an orientation to shoreline topics;
- Aquariums;
- Scientific/ecological reserves;
- Resorts with uses open to the public and public access to the shoreline; and any combination of those uses listed above.

(56) "Water-oriented use" means a use that is water-dependent, water-related, or water-enjoyment, or a combination of such uses.

(57) "Water quality" means the physical characteristics of water within shoreline jurisdiction, including water quantity, hydrological, physical, chemical, aesthetic, recreation-related, and biological characteristics. Where used in this chapter, the term "water quantity" refers only to development and uses regulated under this chapter and affecting water quantity, such as impermeable surfaces and storm water handling practices. Water quantity, for purposes of this chapter, does not mean the withdrawal of ground water or diversion of surface water pursuant to RCW 90.03.250 through 90.03.340.

(58) "Water-related use" means a use or portion of a use which is not intrinsically dependent on a waterfront location but whose economic viability is dependent upon a waterfront location because:

(a) The use has a functional requirement for a waterfront location such as the arrival or shipment of materials by water or the need for large quantities of water; or

(b) The use provides a necessary service supportive of the water-dependent uses and the proximity of the use to its customers makes its services less expensive and/or more convenient.

Water-related uses include manufacturing of ship parts large enough that transportation becomes a significant factor in the product's cost, professional services serving primarily water-dependent uses, and storage of water-transported foods. Other examples of water-related uses include the warehousing of goods transported by water, seafood processing plants, hydroelectric generating plants, gravel storage when transported by barge, oil refineries where transport is by tanker, and upland log storage for water-borne transportation.

In addition, the definitions and concepts set forth in RCW 90.58.030, as amended, and implementing rules shall also apply as used herein.

[Statutory Authority: RCW 90.58.060 and 90.58.200. 00-24-031 (Order 95-17a), § 173-26-020, filed 11/29/00, effective 12/30/00. Statutory Authority: RCW 90.58.140(3) and [90.58].200. 96-20-075 (Order 95-17), § 173-26-020, filed 9/30/96, effective 10/31/96.]

PART I
STATE MASTER PROGRAM

WAC 173-26-030 Master programs required—State master program contents. (1) Chapter 90.58 RCW requires all local governments with shorelines of the state within their boundaries to develop and administer a shoreline master program. The state master program is the cumulative total of all shoreline master programs and amendments thereto approved or adopted by rule by the department, together with any changes pursuant to WAC 173-26-040. Local governments which are required to develop and administer shoreline master programs are listed in WAC 173-26-080.

(2) All shoreline master programs adopted by reference in chapter 173-19 WAC existing as of the effective date of this chapter, remain in full force and effect and continue to be considered part of the state master program, as defined herein.

[Statutory Authority: RCW 90.58.140(3) and [90.58].200. 96-20-075 (Order 95-17), § 173-26-030, filed 9/30/96, effective 10/31/96.]

WAC 173-26-040 Master programs required—Unlisted local governments. The department shall periodically update the list of local governments contained in WAC 173-26-080. When as a result of annexation, municipal incorporation, or change in shoreline jurisdiction, a city or town with shorelines of the state within its boundaries is not listed, such local government is required to develop and administer a shoreline master program pursuant to chapter 90.58 RCW and this chapter.

[Statutory Authority: RCW 90.58.140(3) and [90.58].200. 96-20-075 (Order 95-17), § 173-26-040, filed 9/30/96, effective 10/31/96.]

WAC 173-26-050 State master program register—Maintained by department. The department shall prepare

and maintain an official state master program register identifying original department adoption dates and the effective dates of subsequent amendments approved or adopted by the department for each local government shoreline master program. The master program register shall be available for public viewing and inspection during normal business hours at the headquarters of the department. Copies of the register shall be available from the department at the expense of the requesting party. The department shall keep the register current, incorporating master program adoption and amendment dates as they occur.

[Statutory Authority: RCW 90.58.140(3) and [90.58].200. 96-20-075 (Order 95-17), § 173-26-050, filed 9/30/96, effective 10/31/96.]

WAC 173-26-060 State master program—Complete record maintained by department. The department shall maintain records for all master programs and subsequent amendments thereto. Master program records shall be organized consistent with the state master program register and shall be available for public viewing and inspection during normal business hours at the headquarters of the department.

The department shall maintain a record of each master program, the action taken by the department on any proposed master program or amendment, and any appeal of the department's action. Such records should be maintained in two groups of files as follows:

(1) Shoreline master program working files corresponding to each proposed master program or amendment containing, where applicable:

(a) Initial submittal from local government;

(b) Record of notice to the public, interested parties, agencies and tribes;

(c) Staff reports, analysis and recommendations;

(d) Pertinent correspondence between local government and the department;

(e) The department's letter denying, approving as submitted or approving alternatives together with findings and conclusions and amended text and/or maps;

(f) Documents related to any appeal of the department's action on the amendment;

(g) Supplemental materials including:

(i) Interested party mailing list;

(ii) Comment letters and exhibits from federal, state, local, and tribal agencies;

(iii) Comment letters and exhibits from the general public;

(iv) Recorded tapes and/or a summary of hearing oral testimony;

(v) A concise explanatory statement, if adopted by rule.

(2) State master program files, containing the master program currently in effect, with all text and map amendments incorporated, constituting the official state master program approved document of record.

[Statutory Authority: RCW 90.58.140(3) and [90.58].200. 96-20-075 (Order 95-17), § 173-26-060, filed 9/30/96, effective 10/31/96.]

WAC 173-26-070 Adoption of shoreline master programs by rule—Department action. (1) The department may adopt a shoreline master program by rule in the following circumstances:

(a) Pursuant to RCW 90.58.070(2), when a local government fails to approve a master program relating to shorelines of the state within its jurisdiction in accordance with the time schedule provided for in RCW 90.58.080, the department shall carry out the requirements of RCW 90.58.080 and adopt by rule a master program for shorelines of the state within the jurisdiction of the local government. The department has adopted by rule a master program for shorelines of the state within the jurisdiction of those local governments listed in subsection (2) of this section;

(b) Pursuant to RCW 90.58.090(4), when the department determines that those parts of a master program relating to shorelines of statewide significance do not provide for optimum implementation of the policy of chapter 90.58 RCW to satisfy the statewide interest, the department may develop and adopt by rule an alternative to the local government's master program proposal. The department has adopted by rule an alternative master program for shorelines of statewide significance within the jurisdiction of those local governments listed in subsection (2) of this section.

(2) As set forth in subsection (1)(a) and (b) of this section, the department has adopted by rule a master program, alternative master program or portion thereof for the local governments listed below. This listing shall be updated periodically so as to remove reference to local governments who have complied with the requirements of chapter 90.58 RCW and this chapter, having prepared and submitted a shoreline master program that has been approved by the department.

[Statutory Authority: RCW 90.58.140(3) and [90.58].200. 96-20-075 (Order 95-17), § 173-26-070, filed 9/30/96, effective 10/31/96.]

WAC 173-26-080 Master programs required of local governments. The following local governments, listed alphabetically by county, are required to develop and administer a shoreline master program:

Adams County.

Asotin County.
- Asotin, city of.
- Clarkston, city of.

Benton County.
- Benton City, city of.
- Kennewick, city of.
- Prosser, city of.
- Richland, city of.
- West Richland, city of.

Chelan County.
- Cashmere, city of.
- Chelan, city of.
- Entiat, town of.
- Leavenworth, city of.
- Wenatchee, city of.

Clallam County.
- Forks, city of.
- Port Angeles, city of.
- Sequim, city of.

Clark County.
- Camas, city of.
- LaCenter, town of.
- Ridgefield, town of.
- Vancouver, city of.
- Washougal, city of.
- Woodland, city of.

Columbia County.
- Dayton, city of.
- Starbuck, town of.

Cowlitz County.
- Castle Rock, city of.
- Kalama, city of.
- Kelso, city of.
- Longview, city of.
- Woodland, city of.

Douglas County.
- Bridgeport, town of.
- Coulee Dam, city of.
- East Wenatchee, city of.
- Rock Island, town of.

Ferry County.
- Republic, town of.

Franklin County.
- Pasco, city of.

Garfield County.

Grant County.
- Coulee City, city of.
- Coulee Dam, city of.
- Electric City, city of.
- Grand Coulee, city of.
- Krupp, town of.
- Moses Lake, city of.
- Soap Lake, city of.
- Wilson Creek, town of.

Grays Harbor County.
- Aberdeen, city of.
- Cosmopolis, city of.
- Elma, city of.
- Hoquiam, city of.
- Montesano, city of.
- Oakville, city of.
- Ocean Shores, city of.
- Westport, city of.

Island County.
- Coupeville, town of.
- Langley, city of.
- Oak Harbor, city of.

Jefferson County.
- Port Townsend, city of.

King County.
- Auburn, city of.
- Beaux Arts Village, town of.
- Bellevue, city of.
- Black Diamond, city of.
- Bothell, city of.
- Burien, city of.
- Carnation, town of.
- Des Moines, city of.
- Duvall, city of.
- Federal Way, city of.
- Hunts Point, town of.
- Issaquah, city of.
- Kent, city of.
- Kirkland, city of.
- Lake Forest Park, city of.
- Medina, city of.
- Mercer Island, city of.
- Milton, city of.
- Newcastle, city of.
- Normandy Park, city of.
- North Bend, city of.
- Pacific, city of.
- Redmond, city of.
- Renton, city of.
- Sea-Tac, city of.
- Seattle, city of.
- Shoreline, city of.
- Skykomish, town of.
- Snoqualmie, city of.
- Tukwila, city of.
- Woodinville, city of.
- Yarrow Point, town of.

Kitsap County.
- Bremerton, city of.
- Port Orchard, city of.
- Poulsbo, city of.
- Bainbridge Island, city of.

Kittitas County.
- Cle Elum, city of.
- Ellensburg, city of.
- South Cle Elum, town of.

Klickitat County.
- Bingen, town of.
- Goldendale, city of.
- White Salmon, town of.

Lewis County.
- Centralia, city of.
- Chehalis, city of.
- Morton, city of.
- Pe Ell, town of.
- Toledo, city of.
- Vader, city of.
- Winlock, city of.

Lincoln County.
- Odessa, town of.
- Sprague, city of.

Mason County.
- Shelton, city of.

Okanogan County.
- Brewster, town of.
- Conconully, town of.
- Coulee Dam, city of.
- Okanogan, city of.
- Omak, city of.
- Oroville, town of.
- Pateros, town of.
- Riverside, town of.
- Tonasket, town of.
- Twisp, town of.
- Winthrop, town of.

Pacific County.
- Ilwaco, town of.
- Long Beach, town of.
- Raymond, city of.
- South Bend, city of.

Pend Oreille County.
- Cusick, town of.
- Ione, town of.
- Metaline, town of.
- Metaline Falls, town of.
- Newport, city of.

Pierce County.
- Bonney Lake, city of.
- Buckley, city of.
- Dupont, city of.
- Eatonville, town of.
- Fife, city of.
- Gig Harbor, city of.
- Lakewood, city of.
- Milton, city of.
- Orting, city of.
- Pacific, city of.
- Puyallup, city of.
- Roy, city of.
- Ruston, town of.
- South Prairie, town of.
- Steilacoom, town of.
- Sumner, city of.
- Tacoma, city of.
- University Place, city of.
- Wilkeson, town of.

San Juan County.
- Friday Harbor, town of.

Skagit County.
- Anacortes, city of.
- Burlington, city of.
- Concrete, town of.
- Hamilton, town of.
- La Conner, town of.
- Lyman, town of.
- Mount Vernon, city of.
- Sedro Woolley, city of.

Skamania County.
- North Bonneville, city of.
- Stevenson, town of.

Snohomish County.
- Arlington, city of.
- Bothell, city of.
- Brier, city of.
- Edmonds, city of.
- Everett, city of.
- Gold Bar, town of.
- Granite Falls, town of.
- Index, town of.
- Lake Stevens, city of.
- Marysville, city of.
- Monroe, city of.
- Mountlake Terrace, city of.
- Mukilteo, city of.
- Snohomish, city of.
- Stanwood, city of.
- Sultan, town of.
- Woodway, town of.

Spokane County.
- Latah, town of.
- Medical Lake, town of.
- Millwood, town of.
- Rockford, town of.
- Spokane, city of.
- Waverly, town of.

Stevens County.
- Chewelah, city of.
- Northport, town of.

Thurston County.
- Bucoda, town of.
- Lacey, city of.
- Olympia, city of.
- Tenino, town of.
- Tumwater, city of.
- Yelm, town of.

Wahkiakum County.
- Cathlamet, town of.

Walla Walla County.
- Waitsburg, town of.
- Walla Walla, city of.

Whatcom County.
- Bellingham, city of.
- Blaine, city of.
- Everson, city of.
- Ferndale, city of.
- Lynden, city of.
- Nooksack, city of.
- Sumas, city of.

Whitman County.
- Albion, town of.
- Colfax, city of.
- Malden, town of.
- Palouse, city of.
- Pullman, city of.
- Rosalia, town of.
- Tekoa, city of.

Yakima County.
Grandview, city of.
Granger, town of.
Naches, town of.
Selah, city of.
Union Gap, city of.
Yakima, city of.
Zillah, city of.

[Statutory Authority: RCW 90.58.140(3) and [90.58].200. 96-20-075 (Order 95-17), § 173-26-080, filed 9/30/96, effective 10/31/96.]

PART II
SHORELINE MASTER PROGRAM APPROVAL/AMENDMENT

DRAFT REVIEW:

WAC 173-26-090 Periodic review—Public involvement encouraged—Amendment of comprehensive plans, development regulations and master programs. Each local government should periodically review a shoreline master program under its jurisdiction and make amendments to the master program deemed necessary to reflect changing local circumstances, new information or improved data. Each local government shall also review any master program under its jurisdiction and make amendments to the master program necessary to comply with the requirements of RCW 90.58.080 and any applicable guidelines issued by the department. When the amendment is consistent with chapter 90.58 RCW and its applicable guidelines, it may be approved by local government and the department or adopted by rule when appropriate by the department.

In developing master programs and amendments thereto, the department and local governments, pursuant to RCW 90.58.130 shall make all reasonable efforts to inform, fully involve and encourage participation of all interested persons and private entities, and agencies of the federal, state or local government having interests and responsibilities relating to shorelines of the state and the local master program.

Counties and cities planning under chapter 36.70A RCW, shall establish and broadly disseminate to the public a public participation program identifying procedures whereby proposed amendments of the comprehensive plan and development regulations relating to shorelines of the state will be considered by the local governing body consistent with RCW 36.70A.130. Such procedures shall provide for early and continuous public participation through broad dissemination of informative materials, proposals and alternatives, opportunity for written comments, public meetings after effective notice, provision for open discussion, and consideration of and response to public comments.

[Statutory Authority: RCW 90.58.140(3) and [90.58].200. 96-20-075 (Order 95-17), § 173-26-090, filed 9/30/96, effective 10/31/96.]

WAC 173-26-100 Local process for approving/amending shoreline master programs. Prior to submittal of a new or amended master program to the department, local government shall solicit public and agency comment during the drafting of proposed new or amended master programs. The degree of public and agency involvement sought by local government should be gauged according to the level of complexity, anticipated controversy, and range of issues covered in the draft proposal. Recognizing that the department must approve all master programs before they become effective, early and continuous consultation with the department is encouraged during the drafting of new or amended master programs. For local governments planning under chapter 36.70A RCW, local citizen involvement strategies should be implemented that insure early and continuous public participation consistent with WAC 365-195-600.

At a minimum, local government shall:

(1) Conduct at least one public hearing to consider the draft proposal;

(2) Publish notice of the hearing in one or more newspapers of general circulation in the area in which the hearing is to be held. The notice shall include:

(a) Reference to the authority(s) under which the action(s) is proposed;

(b) A statement or summary of the proposed changes to the master program;

(c) The date, time, and location of the hearing, and the manner in which interested persons may present their views; and

(d) Reference to the availability of the draft proposal for public inspection at the local government office or upon request;

(3) Consult with and solicit the comments of any persons, groups, federal, state, regional, or local agency, and tribes, having interests or responsibilities relating to the subject shorelines or any special expertise with respect to any environmental impact. The consultation process should include adjacent local governments with jurisdiction over common shorelines of the state;

(4) Where amendments are proposed to a county or regional master program which has been adopted by cities or towns, the county shall coordinate with those jurisdictions and verify concurrence with or denial of the proposal. For concurring jurisdictions, the amendments should be packaged and processed together. The procedural requirements of this section may be consolidated for concurring jurisdictions;

(5) Solicit comments on the draft proposal from the department prior to local approval. For local governments planning under the Growth Management Act, the local government shall notify both the department and the department of community, trade, and economic development of its intent to adopt shoreline policies or regulations, at least sixty days prior to final local approval, pursuant to RCW 36.70A.106;

(6) Comply with chapter 43.21C RCW, the State Environmental Policy Act; and

(7) Approve the proposal.

[Statutory Authority: RCW 90.58.140(3) and [90.58].200. 96-20-075 (Order 95-17), § 173-26-100, filed 9/30/96, effective 10/31/96.]

WAC 173-26-105 Review by ecology under Part III—Election by local governments of intent to develop pursuant to Part IV. (1) Local governments shall develop new or amended master programs according to this chapter.

(2) Parts III and IV of this chapter are distinct and separate methods for developing new or amended master pro-

grams. Part III is the default path for local government submissions. Absent a declaration of intent pursuant to subsection (3) of this section, the department will review a new or amended master program submitted to the department pursuant to WAC 173-26-110 for consistency with Part III.

(3) At any time prior to submittal to the department of a new or amended master program pursuant to WAC 173-26-110, a local government may provide written notice to the department declaring that its submission has been or will be developed according to Part IV. Upon receipt of such a declaration, the department will review the submitted master program for consistency with Part IV.

(4) A local government who has declared its intention to proceed under Part IV may, at any time prior to approval by the department, revert to Part III by providing written notice to the department.

[Statutory Authority: RCW 90.58.060 and 90.58.200. 00-24-031 (Order 95-17a), § 173-26-105, filed 11/29/00, effective 12/30/00.]

WAC 173-26-110 Submittal to department of proposed master programs/amendments. A master program or amendment proposed by local government shall be submitted to the department for its review and formal action. A complete submittal shall include two copies of the following, where applicable:

(1) Documentation (i.e., signed resolution or ordinance) that the proposal has been approved by the local government;

(2) If the proposal includes text amending a master program document of record, it shall be submitted in a form that can replace or be easily incorporated within the existing document. Amended text shall show strikeouts for deleted text and underlining for new text, clearly identifying the proposed changes. At the discretion of the department, strikeouts and underlined text may not be required provided the new or deleted portions of the master program are clearly identifiable;

(3) Amended environment designation map(s), showing both existing and proposed designations, together with corresponding boundaries described in text for each change of environment. Environment designation maps shall include a scale and north arrow and shall be of standard size using distinct reproducible noncolor patterns. All proposals for changes in environment designation and redesignation shall provide written justification for such based on existing development patterns, the biophysical capabilities and limitations of the shoreline being considered, and the goals and aspirations of the local citizenry as reflected in the locally adopted comprehensive land use plan;

(4) A summary of proposed amendments together with explanatory text indicating the scope and intent of the proposal, staff reports, records of the hearing, and/or other materials which document the necessity for the proposed changes to the master program;

(5) Evidence of compliance with chapter 43.21C RCW, the State Environmental Policy Act, specific to the proposal;

(6) Copies of all public, agency and tribal comments received, including a record of names and addresses of interested parties involved in the local government review process or, where no comments have been received, a comment to that effect.

[Statutory Authority: RCW 90.58.140(3) and [90.58].200. 96-20-075 (Order 95-17), § 173-26-110, filed 9/30/96, effective 10/31/96.]

WAC 173-26-120 State process for approving/amending shoreline master programs. Review and approval of master programs and amendments by the department shall follow the procedures set forth below:

FORMAL REVIEW:

(1) The department shall review the submitted master program or amendment for compliance with WAC 173-26-100 and 173-26-110. The department shall notify the local government in writing when it determines that a complete submittal has been received. If the submittal is determined to be incomplete, the department will identify the deficiencies and so notify the local government in writing. The review process will not commence until the department determines the submittal is complete.

(2) The department shall provide reasonable notice and opportunity for written comment to all parties of record who expressed interest regarding the local government proposal and to all persons, groups, agencies, and tribes that have requested in writing notice of proposed master programs or amendments generally or for a specific subject matter. The comment period shall be at least thirty days, unless the department determines that a lack of complexity or controversy surrounding the proposal supports a shorter period.

(3) For master program or amendment proposals involving local governments planning under chapter 36.70A RCW, the department shall provide notice to the department of community, trade, and economic development of its intent to commence formal review of the local government proposal.

(4) At the department's discretion, it may conduct a public hearing during the comment period in the jurisdiction proposing the master program or amendment.

(5) If the department conducts a hearing pursuant to subsection (4) of this section, it shall publish notice of the hearing in at least one newspaper of general circulation in the area affected by the master program. The public notice shall include:

(a) A description of the proposed master program or amendment;

(b) Reference to the authority under which the action is proposed;

(c) The dates, times, and locations of the public hearing, and the manner in which interested persons may obtain copies of the proposal and present their views.

For master program or amendment proposals involving adoption by rule, the notice of the hearing shall be published at least once in each of the three weeks immediately preceding the hearing in one or more newspapers of general circulation in the county in which the hearing is to be held.

(6) Within fifteen days after the close of the department's public comment period, the department shall request of the local government submitting the proposal a review of the issues if any, identified by the public, interested parties, groups, agencies, and tribes, and a written response as to how the proposal addresses the identified issues consistent with the policy of RCW 90.58.020 and the applicable guidelines. Local government shall submit its response to the department

within forty-five days of the date of the department's letter requesting a response. If no response is received by the department within the forty-five-day period, the department may proceed with action on the proposal according to subsection (7) of this section. Within the forty-five-day period, the local government may request in writing additional time to prepare a response.

APPROVAL:

(7) Within thirty days after receipt of the local government written response pursuant to subsection (6) of this section, the department shall make written findings and conclusions regarding the consistency of the proposal with the policy of RCW 90.58.020 and the applicable guidelines, provide a response to the issues identified in subsection (6) of this section and either approve the proposal as submitted, recommend specific changes necessary to make the proposal consistent with chapter 90.58 RCW policy and its applicable guidelines, or deny the proposal in those instances where no alteration of the proposal appears likely to be consistent with the policy of RCW 90.58.020 and the applicable guidelines. The written findings and conclusions shall be provided to the local government, all interested parties, tribes, and agencies of record on the proposal.

In reaching its determination of consistency with the policy of RCW 90.58.020 and the applicable guidelines, the department shall approve those parts of a master program relating to shorelines unless it determines that the submitted parts are not consistent with the policy of RCW 90.58.020 and the applicable guidelines. The department shall approve those parts of a master program relating to shorelines of statewide significance only after determining the program provides for optimum implementation of the statewide interest as set forth in the policy of RCW 90.58.020 and the applicable guidelines.

(a) In cases where the proposal is approved as submitted, the effective date of the approved master program or amendment shall be the date of the department's letter to local government approving the submitted master program or amendments.

(b) If the department recommends changes to the proposal, within thirty days after the department mails the written findings and conclusions to the local government pursuant to this subsection (7), the local government may:

(i) Agree to the proposed changes. Receipt by the department of the written notice of agreement from the local government shall constitute final action by the department approving the revised submittal. Written notice of the local government acceptance shall be provided by the department to all parties of record. In such cases, the effective date of the approved master program or amendment is the date the department receives from local government the written notice of agreement; or

(ii) Submit an alternative proposal. If, in the opinion of the department, the alternative is consistent with the purpose and intent of the changes originally proposed by the department in this subsection (7) and with the policy of RCW 90.58.020 and the applicable guidelines, it shall approve the alternative changes and provide written notice to all parties of record. In such cases, the effective date of the approved master program or amendments is the date of the department's letter to local government approving the alternative proposal.

If the department determines the alternative proposal is not consistent with the purpose and intent of the changes proposed by the department, the department may either deny the alternative proposal or at the request of local government start anew with the review and approval process beginning at WAC 173-26-120.

(8) A master program or amendment thereto takes effect when and in such form as it is approved or adopted by rule by the department except when appealed to the shorelines board as provided for in RCW 90.58.190(4) for local governments not planning under chapter 36.70A RCW. The department's approved document of record, filed at the department, constitutes the official master program.

(9) For local governments planning under chapter 36.70A RCW, after final action by the department on a local government's shoreline master program or amendment the local government shall (pursuant to RCW 90.58.090) promptly publish a notice that the department has taken final action on the master program or amendment. For purposes of this section, the date of publication for the master program adoption or amendment shall be the date on which the local government publishes the notice that the department has taken final action on the master program or amendment.

[Statutory Authority: RCW 90.58.140(3) and [90.58].200. 96-20-075 (Order 95-17), § 173-26-120, filed 9/30/96, effective 10/31/96.]

WAC 173-26-130 Appeal procedures for master programs. (1) For local governments planning under chapter 36.70A RCW, the growth management hearings board with jurisdiction shall hear and make determinations regarding the department's decision to approve, adopt by rule, or deny a proposed master program or amendment. All petitions for review shall be filed within sixty days after publication of notice by the local government of the department's final action pursuant to WAC 173-26-120(9).

(2) For local governments not planning under chapter 36.70A RCW, all petitions for review shall be filed with the state shorelines hearings board within thirty days of the written decision by the department approving or denying the master program or amendment.

[Statutory Authority: RCW 90.58.140(3) and [90.58].200. 96-20-075 (Order 95-17), § 173-26-130, filed 9/30/96, effective 10/31/96.]

WAC 173-26-140 Shoreline master program administrative interpretation. As required by RCW 36.70B.110(11), each local government planning under chapter 36.70A RCW shall adopt procedures for administrative interpretation of its development regulations, which include shoreline master programs. When developing and adopting procedures for administrative interpretation of its shoreline master program, local government shall include provisions requiring consultation with the department to insure that any formal written interpretations are consistent with the purpose and intent of chapter 90.58 RCW and the applicable guidelines.

[Statutory Authority: RCW 90.58.140(3) and [90.58].200. 96-20-075 (Order 95-17), § 173-26-140, filed 9/30/96, effective 10/31/96.]

WAC 173-26-150 Local government annexation—Shoreline environment predesignation in planning jurisdictions. Cities and towns planning under the Growth Management Act, chapter 36.70A RCW, may within adopted urban growth areas predesignate environments on shorelines located outside of existing city boundaries. Shoreline environment predesignations shall be consistent with the policy of chapters 36.70A and 90.58 RCW and their applicable guidelines and rules.

Such predesignation shall be conducted under a city's or town's authority to plan for growth within adopted urban growth areas.

Environment predesignations shall be approved by the department according to the procedures set forth in this chapter for amendment of a shoreline master program. No additional procedures are required by the department at the time of annexation. The shoreline environment designation for a predesignated shoreline area shall take effect concurrent with annexation.

[Statutory Authority: RCW 90.58.140(3) and [90.58].200. 96-20-075 (Order 95-17), § 173-26-150, filed 9/30/96, effective 10/31/96.]

WAC 173-26-160 Local government annexation. Except as provided in WAC 173-26-150, in the event of annexation of a shoreline of the state, the local government assuming jurisdiction shall notify the department of such annexation and develop or amend a master program to include the annexed area. Such master program development or amendment shall be consistent with the policy of RCW 90.58.020 and the applicable guidelines and shall be submitted to the department for approval no later than one year from the effective date of annexation.

Until a new or amended master program is adopted by the department, any decision on an application for a shoreline permit in the annexed shoreline area shall be based upon compliance with the master program in effect for the area prior to annexation.

[Statutory Authority: RCW 90.58.140(3) and [90.58].200. 96-20-075 (Order 95-17), § 173-26-160, filed 9/30/96, effective 10/31/96.]

PART III
GUIDELINES—DEFAULT APPROACH

WAC 173-26-170 Purpose of Part III. (1) **Objectives.** WAC 173-26-170 through 173-26-250 are adopted pursuant to chapter 90.58 RCW, the Shoreline Management Act of 1971, to serve as standards for implementation of the policy of the act for regulation of uses of the shorelines; and to provide criteria to local governments and the department in developing and amending master programs. The purposes of Part III are to: (Text in quotations is excerpted from RCW 90.58.020.)

(a) **Protect against adverse impacts.**

"Protect against adverse effects to the public health, the land and its vegetation and wildlife, and the waters of the state and their aquatic life..."

Provide measures for the utilization, protection, restoration, and preservation of the state shorelines, which are "among the state's most valuable and fragile of its natural resources."

Prepare standards governing the protection of single-family residences and appurtenant structures from shoreline erosion, giving preference to measures to protect single-family residences occupied before January 1, 1992, where the proposed measure is designed to minimize harm to the shoreline natural environment. (See RCW 90.58.100(6).)

Undertake a "planned, rational, and concerted effort, jointly performed by federal, state and local governments, to prevent the inherent harm in an uncoordinated and piecemeal development of the state's shorelines."

(b) **Protect the public's right to use and access the surface waters of the state.**

"Insure the development of shorelines of the state in a manner which, while allowing limited reduction of rights of the public in the navigable waters, will promote and enhance the public interest."

"Protect generally public rights of navigation and corollary rights incidental thereto."

Preserve "the public's opportunity to enjoy the physical and aesthetic qualities of natural shorelines of the state to the greatest extent feasible consistent with the overall best interest of the state and the people generally."

Regulate the design, construction, and operation of "permitted uses in the shorelines of the state to minimize, insofar as practical, any interference with the public's use of the water."

(c) **Foster reasonable and appropriate uses that are in the public's best interest.**

Give preference to uses "which are consistent with control of pollution and prevention of damage to the natural environment, or are unique to or dependent upon use of the state's shoreline." Alterations to the natural conditions of the shorelines of the state, in those limited instances when authorized, shall be given priority for:

"(i) Single-family residences and their appurtenant structures;

(ii) Ports; shoreline recreational uses, including, but not limited to, parks, marinas, piers, and other improvements facilitating public access to the shorelines of the state;

(iii) Industrial and commercial developments which are particularly dependent on their location on or use of the shorelines of the state; and

(iv) Other development that will provide an opportunity for substantial numbers of the people to enjoy the shorelines of the state."

The previous list is in no particular order of priority.

Conduct the "coordinated planning necessary to protect the public's interest associated with the shorelines of the state while, at the same time, recognizing and protecting private property rights consistent with the public interest." Ensure equal treatment and fairness to all parties with respect to the use of shoreline resources.

"Appropriately classify the shorelines and shorelands of the state and revise these classifications when circumstances warrant regardless of whether the change in the circumstances occurs through man-made causes or natural causes."

Reflect that state-owned shorelines of the state are particularly adapted to providing wilderness beaches, ecological

study areas, and other recreational uses for the public and give appropriate special consideration to same. (See RCW 90.58.100(4).)

(d) **Protection and restoration of ecological functions.**

This chapter captures the resource protection and restoration policy of RCW 90.58.020 within the concept of protection and restoration of ecological functions. The relative state of ecological functions in a species' range or habitat has a dramatic effect on the general health of the state's native vegetation, wildlife, and fish. While some native species in our region remain vigorous, others have declined over the years. In recent years numerous species of aquatic and terrestrial life which live in or near the shoreline have seen dramatic declines in population. A number of these species, including several species of salmonids, have declined to such an extent that they have been listed as threatened or endangered under the federal Endangered Species Act (ESA), 16 U.S.C. 1533, or by the Washington state department of fish and wildlife pursuant to RCW 77.12.020. Declines dramatic enough to warrant listing under the ESA or RCW 77.12.020 signify a failure to adequately protect against adverse effects to such species. The listing of such species indicates that particular attention should be paid to the species and their habitat in order to fulfill the act's policy of protecting against adverse effects to the land and its vegetation and wildlife, and the waters of the state and their aquatic life.

Local governments with listed species within their jurisdiction should consider the needs of such species when drafting master program provisions intended to protect and restore ecological functions.

(2) **Responsibilities of state and local governments.**

RCW 90.58.050 gives local governments the responsibility of initiating the planning required by the Shoreline Management Act and administering the regulatory program consistent with its policy and provisions. Nothing in this chapter is intended to reduce the opportunity for local governments to pursue local shoreline management objectives, provided they are consistent with the policies of the act and this chapter.

In 1995, the Washington state legislature passed Engrossed Substitute House Bill 1724, an act relating to implementing the recommendations of the governor's task force on regulatory reform on integrating growth management planning and environmental review. The bill amended, among other statutes, the Growth Management Act, chapter 36.70A RCW; the Shoreline Management Act, chapter 90.58 RCW; and the State Environmental Policy Act, chapter 43.21C RCW. Section 304 of Engrossed Substitute House Bill 1724 amended RCW 90.58.060(1) to read:

(1) The department shall periodically review and adopt guidelines consistent with RCW 90.58.020, containing the elements specified in RCW 90.58.100 for:

(a) Development of master programs for regulation of the uses of shorelines; and

(b) Development of master programs for regulation of the uses of shorelines of statewide significance.

These guidelines implement the directive to integrate referenced statutes. Specifically, the guidelines are directed toward more efficient planning, permitting, and environmental review and more effective resource management.

[Statutory Authority: RCW 90.58.060 and 90.58.200. 00-24-031 (Order 95-17a), § 173-26-170, filed 11/29/00, effective 12/30/00.]

WAC 173-26-180 Applicability of Part III. WAC 173-26-170 through 173-26-250 apply to actions taken in the preparation, amendment, and review of local shoreline master programs pursuant to RCW 90.58.060(1). The master programs prepared or amended pursuant to this chapter, when adopted or approved by the department, shall constitute use regulations for the shorelines of the state.

[Statutory Authority: RCW 90.58.060 and 90.58.200. 00-24-031 (Order 95-17a), § 173-26-180, filed 11/29/00, effective 12/30/00.]

WAC 173-26-190 Master program contents. (1) **Master program concepts.**

The following concepts are the basis for effective shoreline master programs.

(a) **Master program policies and regulations.**

Shoreline master programs are both planning and regulatory tools. RCW 90.58.020 establishes the need for both planning and regulatory action.

The legislature further finds that much of the shorelines of the state and the uplands adjacent thereto are in private ownership; that unrestricted construction on the privately owned or publicly owned shorelines of the state is not in the best public interest; and therefore, coordinated planning is necessary in order to protect the public interest associated with the shorelines of the state while, at the same time, recognizing and protecting private property rights consistent with the public interest. There is, therefor, a clear and urgent demand for a planned, rational, and concerted effort, jointly performed by federal, state, and local governments, to prevent the inherent harm in an uncoordinated and piecemeal development of the state's shorelines.

The act expresses this dual function in RCW 90.58.030 (3)(b):

"Master program" shall mean the comprehensive use plan for a described area and the use regulations, together with maps, diagrams, charts, or other descriptive material and text, a statement of desired goals, and standards developed in accordance with the policies enunciated in RCW 90.58.020.

Master programs serve a planning function in several ways. First, they balance and integrate the objectives and interests of local citizens. Therefore, the preparation and amending of master programs shall involve active public participation, as called for in WAC 173-26-200(3). Second, they address the full variety of conditions on the shoreline. Third, they consider and, where necessary to achieve the objectives of chapter 90.58 RCW, influence planning and regulatory measures for adjacent land. For jurisdictions planning under chapter 36.70A RCW, the Growth Management Act, the requirements for integration of shoreline and adjacent land planning are more specific and are described in WAC 173-26-190 (2)(a). Fourth, master programs address conditions and opportunities of specific shoreline segments by classify-

ing the shorelines into "environment designations" as described in WAC 173-26-210.

The results of shoreline planning are summarized in shoreline master program policies that establish broad shoreline management directives. The policies are the basis for regulations that govern use and development along the shoreline. Some development requires a shoreline permit prior to construction. A local government evaluates a permit application with respect to the shoreline master program policies and regulations and issues a permit only after determining that the development conforms to them. The regulations apply to all uses and development within shoreline jurisdiction, whether or not a shoreline permit is required, and are implemented through other permitting and regulation activities of the local government. See RCW 90.58.140.

(b) **Master program elements.**

RCW 90.58.100(2) states that the master programs shall, when appropriate, include the following elements:

(a) An economic development element for the location and design of industries, industrial projects of statewide significance, transportation facilities, port facilities, tourist facilities, commerce, and other developments that are particularly dependent on their location on or use of shorelines of the state;

(b) A public access element making provision for public access to publicly owned areas;

(c) A recreational element for the preservation and enlargement of recreational opportunities, including, but not limited to, parks, tidelands, beaches, and recreational areas;

(d) A circulation element consisting of the general location and extent of existing and proposed major thoroughfares, transportation routes, terminals, and other public utilities and facilities, all correlated with the shoreline use element;

(e) A use element which considers the proposed general distribution and general location and extent of the use on shorelines and adjacent land areas for housing, business, industry, transportation, agriculture, natural resources, recreation, education, public buildings and grounds, and other categories of public and private uses of the land;

(f) A conservation element for the preservation of natural resources, including, but not limited to, scenic vistas, aesthetics, and vital estuarine areas for fisheries and wildlife protection;

(g) An historic, cultural, scientific, and educational element for the protection and restoration of buildings, sites, and areas having historic, cultural, scientific, or educational values;

(h) An element that gives consideration to the statewide interest in the prevention and minimization of flood damages; and

(i) Any other element deemed appropriate or necessary to effectuate the policy of this chapter.

The Growth Management Act (chapter 36.70A RCW) also uses the word "element" for discrete sections or chapters of a comprehensive plan. To avoid confusion, "master program element" refers to the definition in the Shoreline Management Act. Local jurisdictions are not required to address the master program elements listed in the Shoreline Management Act as discrete sections. The elements may be addressed throughout master program provisions rather than used as a means to organize the master program.

(c) **Shorelines of statewide significance.**

The Shoreline Management Act identifies certain shorelines as "shorelines of statewide significance" and raises their status by setting use priorities and requiring "optimum implementation" of the act's policy. WAC 173-26-250 describes methods to provide for the priorities listed in RCW 90.58.020 and to achieve "optimum implementation" as called for in RCW 90.58.090(4).

(d) **Shoreline environment designations.**

Shoreline management must address a wide range of physical conditions and development settings along shoreline areas. Effective shoreline management requires that the shoreline master program prescribe different sets of environmental protection measures, allowable use provisions, and development standards for each of these shoreline segments.

The method for local government to account for different shoreline conditions is to assign an environment designation to each distinct shoreline section in its jurisdiction. The environment designation assignments provide the framework for implementing shoreline policies and regulatory measures specific to the environment designation. WAC 173-26-210 presents guidelines for environment designations in greater detail.

(2) **Basic requirements.**

Part III of this chapter describes the basic components and content required in a master program.

As indicated in WAC 173-26-020, for this chapter, the terms "shall," "must," and "are required" and the imperative voice mean a mandate; the action must be done. As noted in WAC 173-26-020, the term "should" means that the particular action is required unless there is a demonstrated, compelling reason, based on a policy of the Shoreline Management Act and this chapter, against taking the action. The term "may" indicates that the action is acceptable, provided it satisfies all other provisions in this chapter. A master program as submitted to the department for approval shall be sufficient and complete to implement the Shoreline Management Act and the provisions of this chapter. A master program shall contain all of the policies and regulations necessary for the department and other reviewers to evaluate shoreline permits for conformance to the Shoreline Management Act and this chapter.

(a) **Consistency with comprehensive planning and other development regulations.**

Shoreline management is most effective when accomplished within the context of comprehensive planning. For cities and counties planning under the Growth Management Act, chapter 36.70A RCW requires mutual and internal consistency between the comprehensive plan elements and implementing development regulations (including master programs). The requirement for consistency is amplified in WAC 365-195-500:

Each comprehensive plan shall be an internally consistent document and all elements shall be consistent with the future land use map. This means that each part of the plan

should be integrated with all other parts and that all should be capable of implementation together. Internal consistency involves at least two aspects:

(1) Ability of physical aspects of the plan to coexist on the available land.

(2) Ability of the plan to provide that adequate public facilities are available when the impacts of development occur (concurrency).

Each plan should provide mechanisms for ongoing review of its implementation and adjustment of its terms whenever internal conflicts become apparent.

The Growth Management Act also calls for coordination between local jurisdictions. RCW 36.70A.100 states:

...The comprehensive plan of each county or city that is adopted pursuant to RCW 36.70A.040 shall be coordinated with, and consistent with, the comprehensive plans adopted pursuant to chapter 36.70A RCW of other counties or cities with which the county or city has, in part, common borders or related regional issues.

This statutory provision complements watershed-wide or regional planning described in WAC 173-26-200.

Furthermore, legislative findings provided in Engrossed Substitute House Bill 1724, section 1, chapter 347, Laws of 1995 states:

The legislature recognizes by this act that the Growth Management Act is a fundamental building block of regulatory reform. The state and local governments have invested considerable resources in an act that should serve as the integrating framework for all other land-use related laws. The Growth Management Act provides the means to effectively combine certainty for development decisions, reasonable environmental protection, long-range planning for cost-effective infrastructure, and orderly growth and development.

Engrossed Substitute House Bill 1724 also added RCW 36.70A.480(1) to the Growth Management Act, which states:

For shorelines of the state, the goals and policies of the Shoreline Management Act as set forth in RCW 90.58.020 are added as one of the goals of this chapter as set forth in RCW 36.70A.020. The goals and policies of a shoreline master program for a county or city approved under chapter 90.58 RCW shall be considered an element of the county or city's comprehensive plan. All other portions of the shoreline master program for a county or city adopted under chapter 90.58 RCW, including use regulations, shall be considered a part of the county or city's development regulations.

Furthermore, RCW 36.70A.481 states:

Nothing in RCW 36.70A.480 shall be construed to authorize a county or city to adopt regulations applicable to shorelands as defined in RCW 90.58.030 that are inconsistent with the provisions of chapter 90.58 RCW.

The Shoreline Management Act addresses the issue of consistency in RCW 90.58.340, which states:

All state agencies, counties, and public and municipal corporations shall review administrative and management policies, regulations, plans, and ordinances relative to lands under their respective jurisdictions adjacent to the shorelines of the state so as to achieve a use policy on said land consistent with the policy of this chapter, the guidelines, and the master programs for the shorelines of the state. The department may develop recommendations for land use control for such lands. Local governments shall, in developing use regulations for such areas, take into consideration any recommendations developed by the department as well as any other state agencies or units of local government (1971 ex.s. c 286 § 34.)

Pursuant to the statutes cited above, the intent of these guidelines is to assist local governments in preparing and amending master programs that fit within the framework of applicable comprehensive plans, facilitate consistent, efficient environmental review, and effectively implement the Shoreline Management Act.

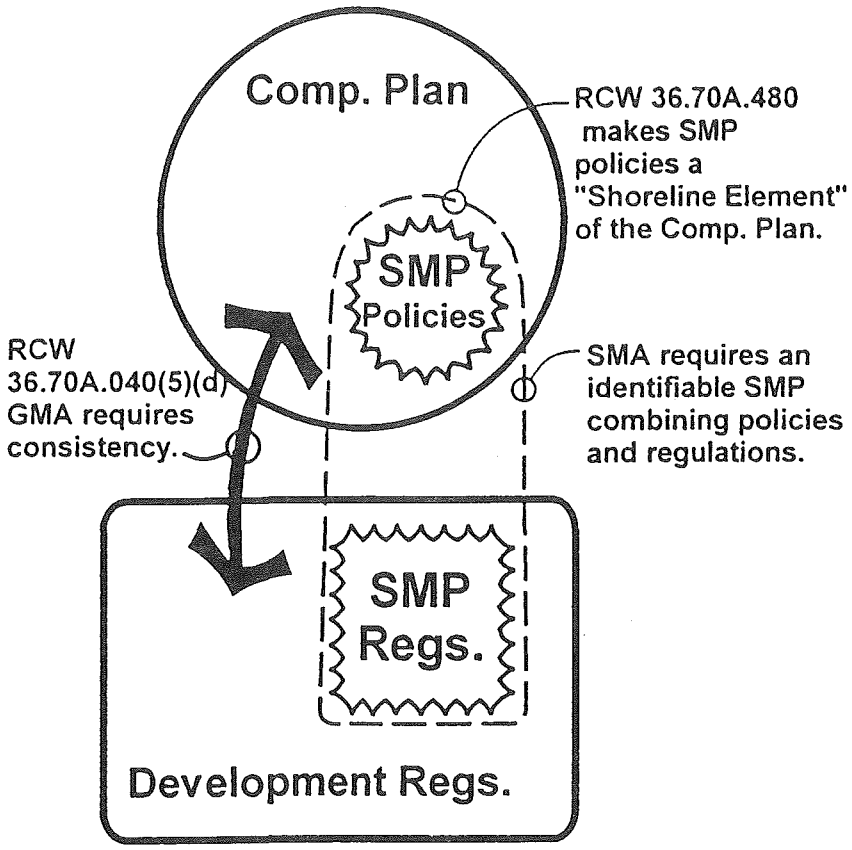

Figure 1. Relationship of master program to comprehensive plan and local development regulations for governments planing under RCW 36.70A.
(This is for illustration purposes only and does not supplement or add to the language in the chapter text.)

Several sections in these guidelines include methods to achieve the consistency required by both the Shoreline Management Act and the Growth Management Act.

First, WAC 173-26-190 (2)(b) and (c) describe optional methods to integrate master programs and other development regulations and the local comprehensive plan.

Second, WAC 173-26-220 through 173-26-250 translate the broad objectives in the Shoreline Management Act into more specific policies. They also provide a more defined policy basis on which to frame local shoreline master program provisions and to evaluate the consistency of applicable sections of a local comprehensive plan with the Shoreline Management Act.

Finally, WAC 173-26-210(3) presents specific methods for testing consistency between shoreline environment designations and comprehensive plan land use designations.

(b) **Including other documents in a master program by reference.**

Shoreline master program provisions sometimes address similar issues as other comprehensive plan elements and development regulations, such as the zoning code and critical area ordinance. For the purposes of completeness and consistency, local governments may include other locally adopted policies and regulations within their master programs. For example, a local government may include specific portions of its critical area ordinance in the master program, provided the critical area ordinance is consistent with this chapter. This can ensure that local master programs are consistent with other regulations.

Shoreline master programs may include other policies and regulations by referencing a specific, dated edition. When including referenced regulations within a master program, local governments shall ensure that the public has an opportunity to participate in the formulation of the regulations or in their incorporation into the master program, as called for in WAC 173-26-200 (3)(b)(i). In the approval process, the department will review the referenced development regulation sections as part of the master program. A copy of the referenced regulations shall be submitted to the department with the proposed master program or amendment. If the development regulation is amended, the edition referenced within the master program will still be the operative regulation in the master program. Changing the referenced regulations in the master program to the new edition will require a master program amendment.

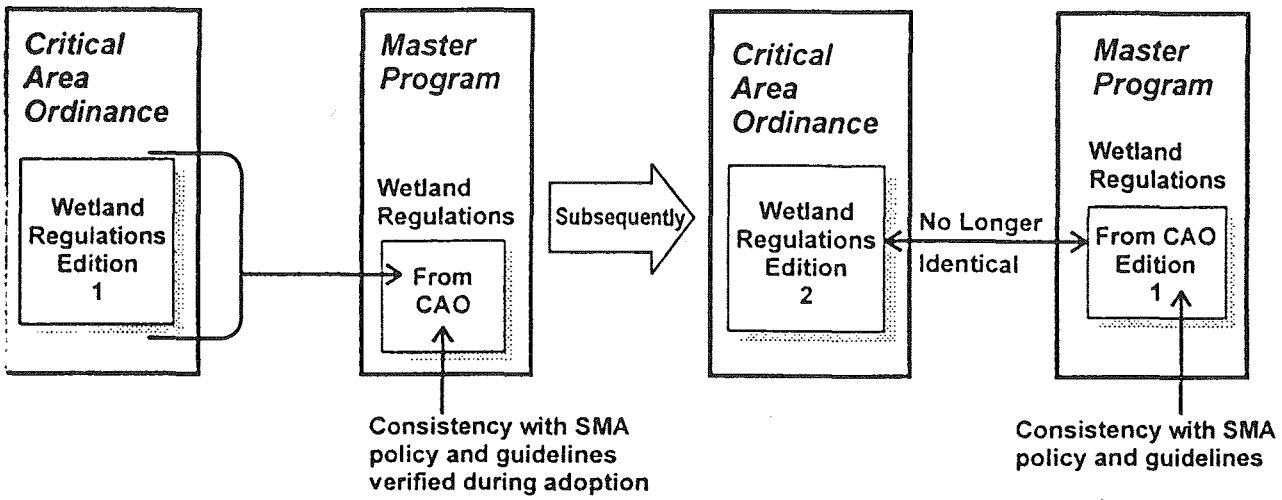

Figure 2. Optional method to incorporate other development regulations into a master programs by reference. (Note: If the referenced critical area ordinance is changed, the CAO provisions in the SMP are not automatically amended.)
(This is or illustration purposes only and does not supplement or add to the language in the chapter text.)

(c) **Incorporating master program provisions into other plans and regulations.**

Local governments may integrate master program policies and regulations into their comprehensive plan policies and implementing development regulations rather than preparing a discrete master program in a single document. Master program provisions that are integrated into such plans and development regulations shall be clearly identified so that the department can review these provisions for approval and evaluate development proposals for compliance. RCW 90.58.120 requires that all adopted regulations, designations, and master programs be available for public inspection at the department or the applicable county or city. Local governments shall identify all documents which contain master program provisions and which provisions constitute part of the master program. Clear identification of master program provisions is also necessary so that interested persons and entities may be involved in master program preparation and amendment, as called for in RCW 90.58.130.

Local governments integrating all or portions of their master program provisions into other plans and regulations shall submit to the department a listing and copies of all provisions that constitute the master program. The master program shall also be sufficiently complete and defined to provide:

(i) Clear directions to applicants applying for shoreline permits and exemptions; and

(ii) Clear evaluation criteria and standards to the local governments, the department, other agencies, and the public for reviewing permit applications with respect to state and local shoreline management provisions.

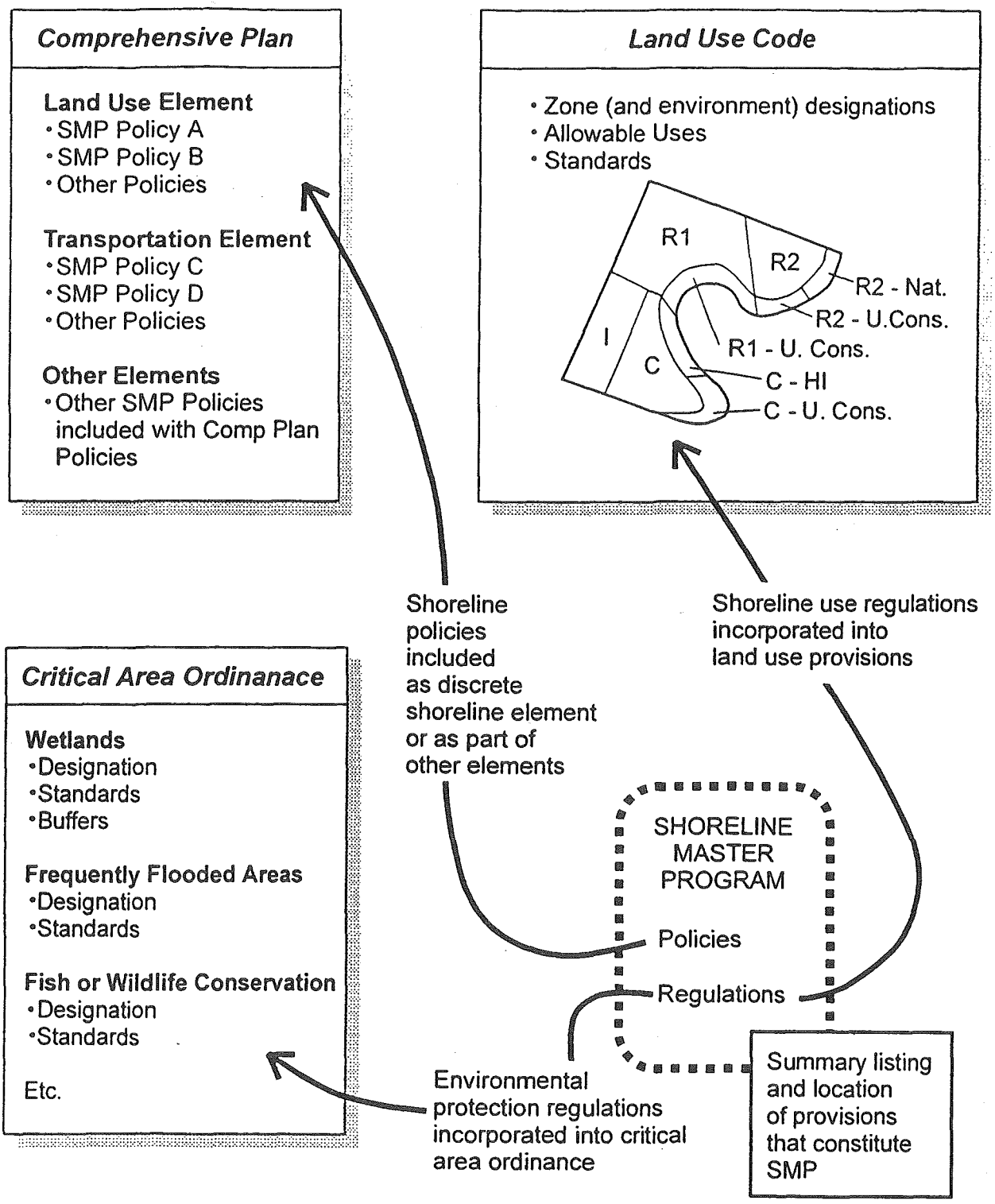

Figure 3. Method to incorporate master program provisions into a comprehensive plan and local development regulations. (Note: All master program provisions must be clearly identified as such.)
(This is for illustration purposes only and does not supplement or add to the language in the chapter text.)

(d) **Multijurisdictional master program.**

Two or more adjacent local governments are encouraged to jointly prepare master programs. Jointly proposed master programs may offer opportunities to effectively and efficiently manage natural resources, such as drift cells or watersheds, that cross jurisdictional boundaries. Local governments jointly preparing master programs shall provide the opportunity for public participation locally in each jurisdiction, as called for in WAC 173-26-200 (3)(b), and submit the multijurisdictional master program to the department for approval.

(e) **Master program contents.**

Master programs shall include the following contents described in (e)(i) through (iii) of this subsection.

(i) **Master program policies.**

Master programs shall provide clear, consistent policies that translate broad statewide objectives of this chapter into local directives. Policies are statements of intent directing or authorizing a course of action or specifying criteria on which to make a public decision. They provide a comprehensive basis for the shoreline master program regulations, which generally are more specific, prescriptive standards used to evaluate shoreline development.

Shoreline policies shall be developed through a comprehensive shoreline planning process allowing for public and affected Indian tribes participation. For governments planning under the Growth Management Act, the master program policies are considered a shoreline element of the local comprehensive plan and shall also be consistent with the planning goals of RCW 36.70A.020.

At a minimum, shoreline master program policies shall:

(A) Be consistent with state shoreline management policies listed in this chapter and the objectives of the Shoreline Management Act;

(B) Address the master program elements of RCW 90.58.020; and

(C) Include policies for environment designations as described in WAC 173-26-210. The policies shall be accompanied by a map or physical description of the schematic environment designation boundaries in sufficient detail to compare with comprehensive plan land use designations.

(ii) **Master program regulations.**

RCW 90.58.100 states:

The master programs provided for in this chapter, when adopted or approved by the department, shall constitute use regulations for the various shorelines of the state.

In order to implement the directives of the Shoreline Management Act, master program regulations shall:

(A) Be sufficient in scope and detail to ensure the implementation of the Shoreline Management Act, statewide shoreline management policies of this chapter, and local master program policies;

(B) Include environment designation regulations that apply to specific environments consistent with WAC 173-26-210; and

(C) Include general regulations, use regulations that address issues of concern to specific uses, and shoreline modification regulations that protect shoreline ecological functions from the effects of human-made modifications to the shoreline.

(iii) **Administrative provisions.**

(A) **Statement of applicability.**

The Shoreline Management Act's provisions apply to all development and uses within its jurisdiction, whether or not a shoreline permit is required. Many activities that may not require a substantial development permit, such as clearing vegetation or construction of a residential bulkhead, can cause serious damage to adjacent properties, natural resources, and lands held in public trust. Local governments have the authority and responsibility to condition a project even though it is exempt from the requirement for a substantial development permit. There has been, historically, some public confusion regarding the Shoreline Management Act's applicability. Therefore, all master programs shall include the following statement:

"All uses and development occurring within shoreline jurisdiction must conform to chapter 90.58 RCW, the Shoreline Management Act, and this master program."

(B) **Conditional use and variance provisions.**

RCW 90.58.100(5) states:

Each master program shall contain provisions to allow for the varying of the application of use regulations of the program, including provisions for permits for conditional uses and variances, to insure that strict implementation of a program will not create unnecessary hardships or thwart the policy enumerated in RCW 90.58.020. Any such varying shall be allowed only if extraordinary circumstances are shown and the public interest suffers no substantial detrimental effect. The concept of this subsection shall be incorporated in the rules adopted by the department relating to the establishment of a permit system as provided in RCW 90.58.140(3).

All master programs shall include standards for reviewing conditional use permits and variances which conform to chapter 173-27 WAC.

(C) **Administrative permit review and enforcement procedures.**

RCW 90.58.140(3) states:

The local government shall establish a program, consistent with rules adopted by the department, for the administration and enforcement of the permit system provided in this section. The administration of the system so established shall be performed exclusively by the local government.

Local governments may, but are not required to, include administrative, enforcement, and permit review procedures into the master program. These procedures shall conform to the Shoreline Management Act, specifically RCW 90.58.140, and to chapter 173-27 WAC. However, the procedures may be defined by a local government ordinance separate from the master program.

Adopting review and enforcement procedures separate from the master program allows local governments greater flexibility in revising their shoreline permit review procedures and integrating them with other permit processing activities.

(D) **Documentation of project review actions and changing conditions in shoreline areas.**

Master programs shall include a mechanism for documenting project review actions in shoreline areas. Local governments shall also identify a process for evaluating their cumulative effects on shoreline conditions. This process could involve a joint effort by local governments, state resource agencies, affected Indian tribes, and other parties.

[Statutory Authority: RCW 90.58.060 and 90.58.200. 00-24-031 (Order 95-17a), § 173-26-190, filed 11/29/00, effective 12/30/00.]

WAC 173-26-200 Comprehensive process to prepare or amend shoreline master programs. (1) Applicability.

This section outlines a comprehensive process to prepare or amend a shoreline master program. Local governments

shall incorporate the steps indicated if one or more of the following criteria apply:

(a) The master program amendments being considered represent a significant modification to shoreline management practices within the local jurisdiction, they modify more than one environment designation boundary, or significantly add, change or delete use regulations;

(b) Physical shoreline conditions have changed significantly, such as substantial changes in shoreline use or priority habitat integrity, since the last comprehensive master program amendment;

(c) The master program amendments being considered contain provisions that will affect a substantial portion of the local government's shoreline areas;

(d) There are substantive issues such as priority species recovery or water resource management, that must be addressed on a comprehensive basis;

(e) The current master program and the comprehensive plan are not mutually consistent;

(f) There has been no previous comprehensive master program amendment since the original master program adoption; or

(g) Monitoring and adaptive management indicate that changes are necessary to avoid loss of ecological functions.

If a local jurisdiction has undertaken a recent comprehensive update of the master program but seeks to make minor revisions, such as an adjustment to a single environment designation boundary, to bring the master program into compliance with these guidelines or other state requirements, these modifications may be made without undertaking a fully comprehensive process.

All master program amendments, even amendments that do not fit within the criteria above, are subject to approval by the department.

(2) **Basic concepts and principles.**

(a) **Use of scientific and technical information.**

RCW 90.58.100(1) states:

In preparing the master programs and any amendments thereto, the department and local governments shall, to the extent feasible:

(a) Utilize a systematic interdisciplinary approach which will ensure the integrated use of the natural and social sciences and the environmental design arts;

(b) Consult with and obtain the comments of any federal, state, regional, or local agency having any special expertise with respect to any environmental impact;

(c) Consider all plans, studies, surveys, inventories, and systems of classification made or being made by federal, state, regional, or local agencies, by private individuals, or by organizations dealing with pertinent shorelines of the state;

(d) Conduct or support such further research, studies, surveys, and interviews as are deemed necessary;

(e) Utilize all available information regarding hydrology, geography, topography, ecology, economics, and other pertinent data;

(f) Employ, when feasible, all appropriate modern scientific data processing and computer techniques to store, index, analyze, and manage the information gathered.

To address the requirements for the use of scientific and technical information, local governments shall incorporate the following two steps into their master program development and amendment process.

First, identify and assemble the most current, accurate, and complete scientific and technical information available that is applicable to the issues of concern. The context, scope, magnitude, significance, and potential limitations of the scientific information should be considered. At a minimum, make use of and, where applicable, incorporate all available scientific information, aerial photography, inventory data, technical assistance materials, manuals and services from reliable sources of science. Local governments should also contact relevant state agencies, universities, and affected Indian tribes for available information. If local governments initiate scientific research as a basis for master program provisions, that research shall use accepted scientific methods and research procedures and be subject to peer review. Local governments are encouraged to work interactively with neighboring jurisdictions, state resource agencies, and affected Indian tribes to address technical issues beyond the scope of existing information resources or locally initiated research.

Local governments should consult with the technical assistance materials produced by the department. Unless there is more current or specific information available, those technical assistance materials shall constitute an element of scientific and technical information as defined in these guidelines.

Second, base master program provisions on an analysis incorporating the most current, accurate, and complete scientific or technical information available. Local governments should be prepared to identify the following:

(i) Scientific information and management recommendations on which the master program provisions are based;

(ii) Assumptions and data gaps in the scientific information; and

(iii) Risks to ecological functions associated with master program provisions. Address potential risks as described in WAC 173-26-200 (3)(d).

The requirement to use scientific and technical information in these guidelines does not limit a local jurisdiction's authority to solicit and incorporate information, experience, and anecdotal evidence provided by interested parties as part of the master program amendment process. Such information should be solicited through the public participation process described in WAC 173-26-200 (3)(b). Where information collected by or provided to local governments conflicts or is inconsistent, the local government shall base master program provisions on a reasoned, objective evaluation of the relative merits of the conflicting data.

(b) **Monitoring and adaptive management.**

Effective shoreline management requires the evaluation of changing conditions and the modification of regulations to address identified trends and new information. Local governments are encouraged to apply adaptive management techniques by undertaking local monitoring and periodically updating master program provisions to improve shoreline management practices over time.

(c) **Ecological functions.**

RCW 90.58.020 includes the following statement:

This policy contemplates protecting against adverse effects to the public health, the land and its vegetation and wildlife, and the waters of the state and their aquatic life, while protecting generally public rights of navigation and corollary rights incidental thereto.

This chapter implements the above-cited statutory policy through the protection and restoration of ecological functions. The concept of ecological functions, as defined in WAC 173-26-020, recognizes that successful management of the shoreline environment depends on sustaining the:

- Ecosystem-wide fluvial, current, and wave processes, including those that form habitats, and
- Individual functions and their processes that are present in each habitat type.

The loss or degradation of one or more ecosystem-wide processes or individual functions can significantly impact shoreline habitats and human health and safety. Shoreline master programs shall address the applicable ecosystem-wide processes and individual ecological functions identified in the ecological systems analysis described in WAC 173-26-200 (3)(d)(i).

Nearly all shoreline areas, even substantially developed or degraded areas, retain some important ecological functions. For example, an intensely developed harbor area may also serve as a fish migration corridor and feeding area critical to species survival. Also, ecological systems are themselves interconnected. For example, the life cycle of anadromous fish depends upon the viability of freshwater, marine, and terrestrial shoreline ecosystems, and many wildlife species associated with the shoreline depend on the health of both terrestrial and aquatic environments. Therefore, the objectives for protection and restoration of ecological functions generally apply to all shoreline areas, not just those that remain relatively unaltered.

Master programs shall contain provisions to protect and to contribute to the restoration of ecological functions and ecosystem-wide processes based on analysis described in WAC 173-26-200 (3)(d)(i).

(d) **Preferred uses.**

RCW 90.58.020 states:

In the implementation of this policy the public's opportunity to enjoy the physical and aesthetic qualities of natural shorelines of the state shall be preserved to the greatest extent feasible consistent with the overall best interest of the state and the people generally. To this end uses shall be preferred which are consistent with control of pollution and prevention of damage to the natural environment, or are unique to or dependent upon use of the state's shoreline. Alterations of the natural condition of the shorelines of the state, in those limited instances when authorized, shall be given priority for single family residences and their appurtenant structures, ports, shoreline recreational uses including but not limited to, parks, marinas, piers, and other improvements facilitating public access to shorelines of the state, industrial and commercial developments which are particularly dependent on their location on or use of the shorelines of the state and other development that will provide an opportunity for substantial numbers of the people to enjoy the shorelines of the state. Alterations of the natural condition of the shorelines and shorelands of the state shall be recognized by the department. Shorelines and shorelands of the state shall be appropriately classified and these classifications shall be revised when circumstances warrant regardless of whether the change in circumstances occurs through man-made causes or natural causes.

Consistent with this policy, these guidelines use the terms "water-dependent," "water-related," and "water-enjoyment," as defined in WAC 173-26-020, when discussing appropriate uses for various shoreline areas.

Shoreline areas, being a limited ecological and economic resource, are the setting for competing uses and ecological protection and restoration activities. Consistent with RCW 90.58.020, local governments should, when determining allowable uses and resolving use conflicts on shorelines within their jurisdiction, apply the following preferences and priorities in the order listed below, starting with (i) of this subsection.

(i) Reserve appropriate areas for protecting and restoring ecological functions to control pollution and prevent damage to the natural environment and public health.

(ii) Reserve shoreline areas for water-dependent uses and establish policies and regulations so that water-dependent development is consistent with comprehensive ecological protection and restoration objectives. Harbor areas and areas that are generally considered navigable for commercial purposes should be reserved for water-dependent and water-related uses unless the local governments can demonstrate that adequate shoreline is reserved for future water-dependent and water-related uses. Local governments may prepare master program provisions to allow mixed-use developments that include and support water-dependent uses and address specific conditions that affect water-dependent uses.

(iii) Reserve shoreline areas for water-related and water-enjoyment uses that are compatible with water-dependent uses and ecological protection and restoration objectives.

(iv) Locate single-family residential uses where they are appropriate and can be developed without significant impact to ecological functions or displacement of water-dependent uses.

(v) Limit nonwater-oriented uses to those locations where either water-oriented uses are inappropriate or where nonwater-oriented uses demonstrably contribute to the objectives of the Shoreline Management Act.

Local conditions and environmental constraints may result in lower priority uses being accommodated. For example, an undeveloped shoreline may not be an appropriate site for a water-dependent use, such as a cargo facility, but may accommodate a recreational trail (water-enjoyment) of a lower priority.

For shorelines of statewide significance, apply the preferences as indicated in WAC 173-26-250(2).

(e) **Environmental impact mitigation.**

Because the Shoreline Management Act recognizes both the appropriate use and environmental protection of the state's shorelines, situations may arise in which otherwise allowable development must include measures to mitigate environmental impacts and implement the Shoreline Management Act's environmental protection objectives. Rules

implementing Washington's State Environmental Policy Act of 1971, chapter 43.21C RCW, also address environmental impact mitigation in WAC 197-11-660 and define mitigation in WAC 197-11-768. Where these guidelines call for mitigation or mitigation sequencing, shoreline master programs shall include provisions for providing environmental impact mitigation. This may be done by prescribing specific mitigation actions for specific uses as called for in WAC 173-26-240 (2)(a), by requiring conditional use permits as described in WAC 173-26-240 (2)(b), and/or by implementing a plan for comprehensive environmental mitigation.

To this end, master programs shall indicate that, where required, mitigation measures shall be applied in the sequence defined in WAC 173-26-020. In determining appropriate mitigation measures, avoidance of impacts by means such as relocating or redesigning the proposed development shall be applied first. Lower priority measures shall be applied only after higher priority measures are demonstrated to be not feasible or not applicable.

(3) **Steps in preparing and amending a master program.**

(a) **Process overview.**

Figure 4 below illustrates a generalized process to prepare or comprehensively amend a shoreline master program. Local governments may modify the timing of the various steps, integrate the process into other planning activities, add steps to the process, or work jointly with other jurisdictions or regional efforts, provided the provisions of this chapter are met.

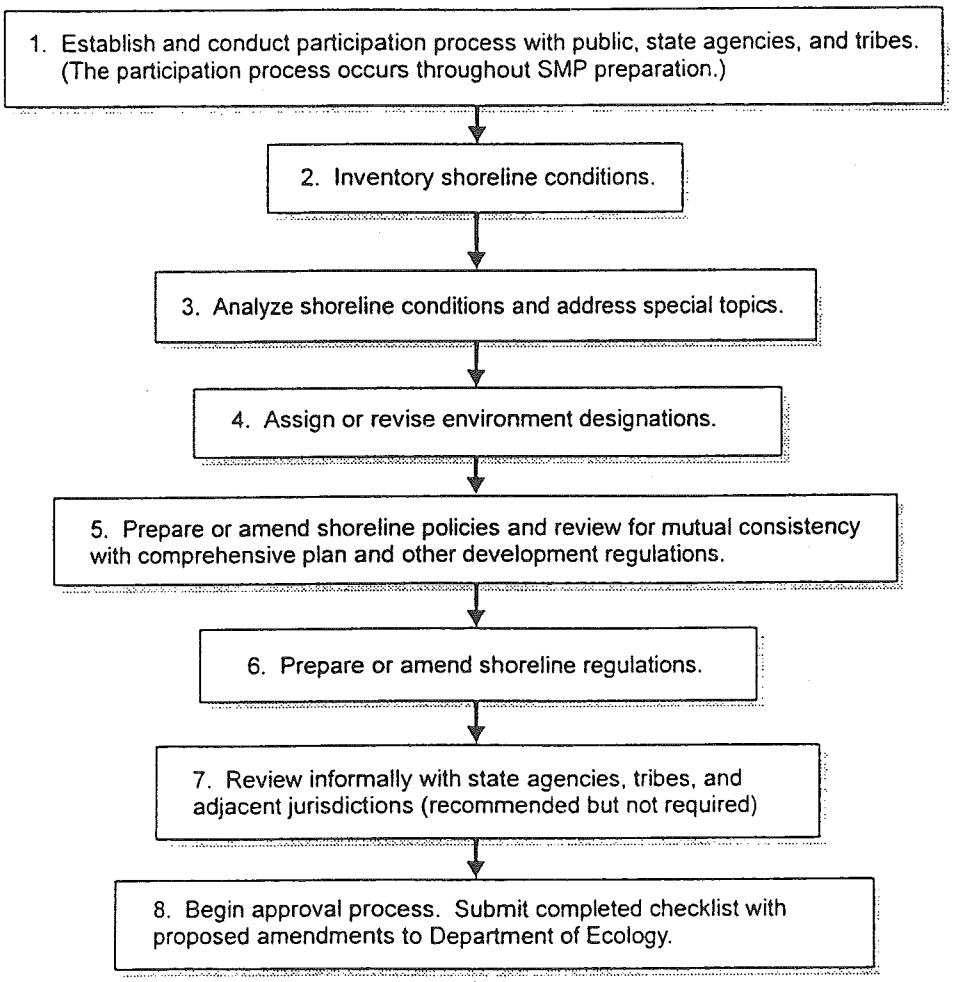

Figure 4. Steps in preparing comprehensive shoreline master program amendments.
(This is for illustration purposes only and does not supplement or add to the language in the chapter text.)

The department will provide a shoreline master program amendment checklist to help local governments identify issues to address. The checklist will not create new or additional requirements beyond the provisions of this chapter. The checklist is intended to aid the preparation and review of master program amendments. Local governments shall submit the completed checklist with the proposed master program amendments. The department will send completed checklists to other resource agencies and affected Indian tribes reviewing the master program.

(b) **Participation process.**

Establish a public and intergovernmental participation process.

(i) **Public participation.**

RCW 90.58.130 states:

To insure that all persons and entities having an interest in the guidelines and master programs developed under this

chapter are provided with a full opportunity for involvement in both their development and implementation, the department and local governments shall:

(1) Make reasonable efforts to inform the people of the state about the shoreline management program of this chapter and in the performance of the responsibilities provided in this chapter, shall not only invite but actively encourage participation by all persons and private groups and entities showing an interest in shoreline management programs of this chapter; and

(2) Invite and encourage participation by all agencies of federal, state, and local government, including municipal and public corporations, having interests or responsibilities relating to the shorelines of the state. State and local agencies are directed to participate fully to insure that their interests are fully considered by the department and local governments.

For local governments planning under the Growth Management Act, the provisions of RCW 36.70A.140 also apply.

At a minimum, all local governments shall be prepared to describe and document their methods to ensure that all interested parties have a meaningful opportunity to participate. If a local committee or other group is appointed to advise the amendment process, local governments shall ensure that that body represents the full range of interests of all citizens within the local jurisdiction.

(ii) **Communication with state agencies.**

Before undertaking substantial work, local governments shall notify applicable state agencies to identify state interests, relevant regional and statewide efforts, available information, and methods for coordination and input. Contact the department for a list of applicable agencies to be notified.

(iii) **Communication with affected Indian tribes.**

Prior to undertaking substantial work, local governments shall notify affected Indian tribes to identify tribal interests, relevant tribal efforts, available information and methods for coordination and input. Contact the individual tribes or coordinating bodies such as the Northwest Indian Fisheries Commission, for a list of affected Indian tribes to be notified.

(c) **Inventory shoreline conditions.**

Gather and incorporate all pertinent and available information, existing inventory data and materials from state agencies, affected Indian tribes, watershed management planning, and other appropriate sources. Ensure that, whenever possible, inventory methods and protocols are consistent with those of neighboring jurisdictions and state efforts. The department will provide, to the extent possible, services and resources for inventory work. Contact the department to determine information sources and other relevant efforts. Map inventory information at an appropriate scale.

Local governments shall be prepared to demonstrate how the inventory information was used in preparing their local master program amendments.

Collection of additional inventory information is encouraged and should be coordinated with other watershed, regional, or statewide inventory and planning efforts in order to ensure consistent methods and data protocol as well as effective use of fiscal and human resources. Local governments should be prepared to demonstrate that they have coordinated with applicable interjurisdictional shoreline inventory and planning programs where they exist. Two or more local governments are encouraged to jointly conduct an inventory in order to increase the efficiency of data gathering and comprehensiveness of inventory information. Data from interjurisdictional, watershed, or regional inventories may be substituted for an inventory conducted by an individual jurisdiction, provided it meets the requirements of this section.

At a minimum, and to the extent such information is relevant and reasonably available, collect the following information:

(i) Shoreline and adjacent land use patterns and transportation and utility facilities, including the extent of existing structures, impervious surfaces, vegetation and shoreline modifications in shoreline jurisdiction.

(ii) Critical areas, including wetlands, aquifer recharge areas, fish and wildlife conservation areas, geologically hazardous areas, and frequently flooded areas, as required by RCW 36.70A.170. See also WAC 173-26-220 (2) and (3).

(iii) Degraded areas and sites with potential for ecological restoration.

(iv) Areas of special interest, such as priority habitats, rapidly developing waterfronts, clean-up sites, or eroding shorelines, to be addressed through new master program provisions.

(v) Conditions and regulations in shoreland and adjacent areas that affect shorelines, such as surface water management and land use regulations. This information may be useful in achieving mutual consistency between the master program and other development regulations.

(vi) Existing and potential shoreline public access sites, including public rights-of-way and utility corridors.

(vii) General location of bank full width limits, channel migration zones, and flood plains.

(viii) Gaps in existing information. During the initial inventory, local governments should identify what additional information may be necessary for more effective shoreline management.

(ix) If the shoreline is rapidly developing or subject to substantial human changes such as clearing and grading, past and current records or historical aerial photographs may be necessary to identify cumulative impacts, such as bulkhead construction, intrusive development on priority habitats, and conversion of harbor areas to nonwater-oriented uses.

(x) If archaeological or historic resources have been identified in shoreline jurisdiction, consult with the state historic preservation office and local affected Indian tribes regarding existing archaeological and historical information.

(d) **Analyze shoreline issues of concern.**

Analyze shoreline conditions based on information gathered in (c) of this subsection and address special topics. Before establishing specific master program provisions, local governments shall perform analysis and planning tasks necessary to ensure effective shoreline management provisions, addressing the topics below, where applicable.

(i) **Characterization of functions and ecosystem-wide processes.**

Prepare a characterization of shoreline ecological systems. These systems include riverine, lacustrine, marine and

wetland systems as listed in WAC 173-26-020. The characterization consists of three steps:

(A) Identify which of the ecosystem-wide processes and ecological functions listed in WAC 173-26-020 apply within shoreline jurisdiction and identify which have been significantly altered and which may be missing or significantly impacted;

(B) Assess the ecosystem-wide processes to determine their effect/impact on shoreline systems present within a jurisdiction and their individual functions; and

(C) Develop the specific master program provisions necessary to protect and/or restore ecological functions and ecosystem-wide processes. The characterization of shoreline ecological systems may be achieved by using one or more of the approaches below:

(I) If a regional environmental management plan, such as a watershed plan or coastal erosion study, is ongoing or has been completed, then conduct the characterization either within the framework of the regional plan or use the data provided in the regional plan. This methodology is intended to contribute to an in-depth and comprehensive assessment and characterization.

(II) If a regional environmental management plan has not been completed, use available scientific and technical information, including flood studies, habitat evaluations and studies, water quality studies, and data and information from environmental impact statements. This characterization of ecosystem-wide processes and the impact upon the functions of specific habitats and human health and safety objectives may be of a generalized nature.

(III) One or more local governments may pursue a characterization which includes a greater scope and complexity than listed in items (I) and (II) of this subsection.

Local governments should ensure that master program provisions protect the shoreline processes within the subject jurisdiction that are critical to creating and sustaining shoreline functions. To achieve this, the level of resource protection must account for risks to the environment and cumulative impacts from development allowed by the master program. Local governments should use this analysis to prepare master program provisions as described in WAC 173-26-200 (3)(g) to protect and to contribute to the restoration of the ecosystem-wide processes and individual ecological functions on a comprehensive basis over time. This does not necessarily require that each development or action on the shoreline individually improve ecological functions.

(ii) **Shoreline use analysis and priorities.**

Conduct an analysis to determine the future demand for shoreline space and the methods to resolve potential use conflicts. Characterize current shoreline use patterns and projected trends to ensure a balance of uses consistent with chapter 90.58 RCW and WAC 173-26-200 (2)(d) and 173-26-210(5).

If the jurisdiction includes a harbor area or urban waterfront with intensive uses or significant development issues, work with the Washington state department of natural resources and port authorities to ensure consistency with harbor area statutes and regulations. Identify measures and strategies to encourage appropriate use of these shoreline areas while pursuing opportunities for ecological restoration.

(iii) **Cumulative impacts.**

At a minimum, local governments, with the assistance of state agencies, should project the ultimate allowed full build-out condition for existing and proposed master program provisions being considered. This assessment should include potential impacts due to all development, including current conditions and those uses not requiring a shoreline permit. Master programs should address cumulative adverse impacts caused by incremental development, such as residential bulkheads, residential piers, or runoff from newly developed properties, and shall include master program provisions as described in WAC 173-26-200 (3)(g), to assess, minimize, and mitigate cumulative impacts.

(iv) **Shorelines of statewide significance.**

If the area contains shorelines of statewide significance, undertake the steps outlined in WAC 173-26-250.

(v) **Public access.**

Identify public access needs and opportunities within the jurisdiction and explore actions to enhance shoreline recreation facilities, as described in WAC 173-26-220(4).

(vi) **Enforcement and coordination with other regulatory programs.**

Local governments planning under the Growth Management Act shall review their comprehensive plan policies and development regulations to ensure mutual consistency. In order to effectively administer and enforce master program provisions, local governments should also review their current permit review and inspection practices to identify ways to increase efficiency and effectiveness and to ensure consistency.

(vii) **Water quality and quantity.**

Identify water quality and quantity issues relevant to master program provisions, including those that affect human health and safety. At a minimum, consult with appropriate federal, state, tribal, and local agencies.

(viii) **Vegetation conservation.**

Identify how existing shoreline vegetation provides ecological functions and determine methods to ensure protection of those functions. Identify important ecological functions that have been degraded through loss of vegetation and feasible means to restore those functions. Consider the amount of vegetated shoreline area necessary to achieve ecological objectives. While there may be less vegetation remaining in urbanized areas than in rural areas, the importance of this vegetation, in terms of the ecological functions it provides, is often as great or even greater than in rural areas due to its scarcity. Identify measures to ensure that new development meets vegetation conservation objectives.

(ix) **Special area planning.**

If the jurisdiction includes complex shoreline ecological issues, changing uses, or other unique features, the local government is encouraged to undertake special area planning. Special area planning may be used to address: Public access, vegetation conservation, shoreline use compatibility, port development master planning, ecological restoration, or other issues best addressed on a comprehensive basis.

The resultant plans may serve as the basis for facilitating state and local government coordination and permit review.

Special area planning shall provide for public and affected Indian tribe participation.

(e) **Establish environment designations.**

Establish environment designations and identify permitted uses and development standards for each environment designation.

Based on the inventory in (c) of this subsection and the analysis in (d) of this subsection, assign each shoreline segment an environment designation.

Prepare specific environment designation policies and regulations.

Review the environment designations for mutual consistency with comprehensive plan land use designations as indicated in WAC 173-26-210(3).

In determining the boundaries and classifications of environment designations, adhere to the priorities in WAC 173-26-200 (2)(d).

(f) **Establish shoreline policies.**

Address all of the elements listed in RCW 90.58.100(2). Review for mutual consistency with the comprehensive plan policies. If there are shorelines of statewide significance, ensure that the other comprehensive plan policies affecting shoreline jurisdiction are consistent with the objectives of RCW 90.58.020 and 90.58.090(4).

(g) **Prepare shoreline regulations.**

Prepare shoreline regulations based on the analyses described in this section and consistent with the guidelines of this chapter. The level of detail of inventory information and planning analysis will be a consideration in setting shoreline regulations. As a general rule, the less known about existing resources, the more stringent shoreline master program provisions should be to avoid irreparable damage to shoreline resources. If there is a question about the extent or condition of an existing ecological resource, then the master program provisions shall be sufficiently restrictive to ensure that the resource is protected. Local governments may accomplish this by including master program requirements for an on-site inventory at the time of project application.

(h) **Submit for review and approval.**

Local governments are encouraged to work with department personnel during preparation of the master program and to submit draft master program provisions to the department for informal advice and guidance prior to formal submittal.

Local governments shall submit the completed checklist, as described in WAC 173-26-200 (3)(a), with their master program amendments proposed for adoption. Master program review and formal adoption procedures are described in Parts I and II of this chapter.

[Statutory Authority: RCW 90.58.060 and 90.58.200. 00-24-031 (Order 95-17a), § 173-26-200, filed 11/29/00, effective 12/30/00.]

WAC 173-26-210 Environment designation system.

(1) **Applicability.**

This section applies to the establishment of environment designation boundaries and provisions as described in WAC 173-26-190 (1)(d).

(2) **Basic requirements for environment designation classification and provisions.**

Master programs shall contain a system to classify shoreline areas into specific environment designations. This classification system shall be based on the existing use pattern, the biological and physical character of the shoreline, and the goals and aspirations of the community as expressed through comprehensive plans. Each master program's classification system shall be consistent with that described in WAC 173-26-210 (4) and (5) unless there is a compelling reason, based on the act and this chapter, to the contrary and the alternative proposed provides equal or better implementation of the act.

An up-to-date and accurate map of the shoreline area delineating the environment designations and their boundaries shall be prepared and maintained in the local government office that administers shoreline permits. If it is not feasible to accurately designate individual parcels on a map, the master program text shall include a clear basis for identifying the boundaries, physical features, explicit criteria, or "common" boundary descriptions to accurately define and distinguish the environments on the ground.

To facilitate consistency with land use planning, local governments planning under chapter 36.70A RCW are encouraged to illustrate shoreline designations on the comprehensive plan Future Land Use Map as described in WAC 365-195-300 (2)(d).

The map should clearly illustrate what environment designations apply to all lands in Shoreline Management Act jurisdictional limits, including flood plains, river deltas, and associated wetlands.

The master program should also make it clear that in the event of a mapping error, the jurisdiction will rely upon common boundary descriptions and the criteria contained in chapter 173-22 WAC pertaining to wetlands, as amended, rather than the incorrect or outdated map.

The map and the master program should note that all areas within shoreline jurisdiction that are not mapped and/or designated are automatically assigned a "rural conservancy" designation, or "urban conservancy" designation if within a municipality or urban growth area, until the shoreline can be redesignated through a master program amendment.

The following diagram summarizes the components of the environment designation provisions.

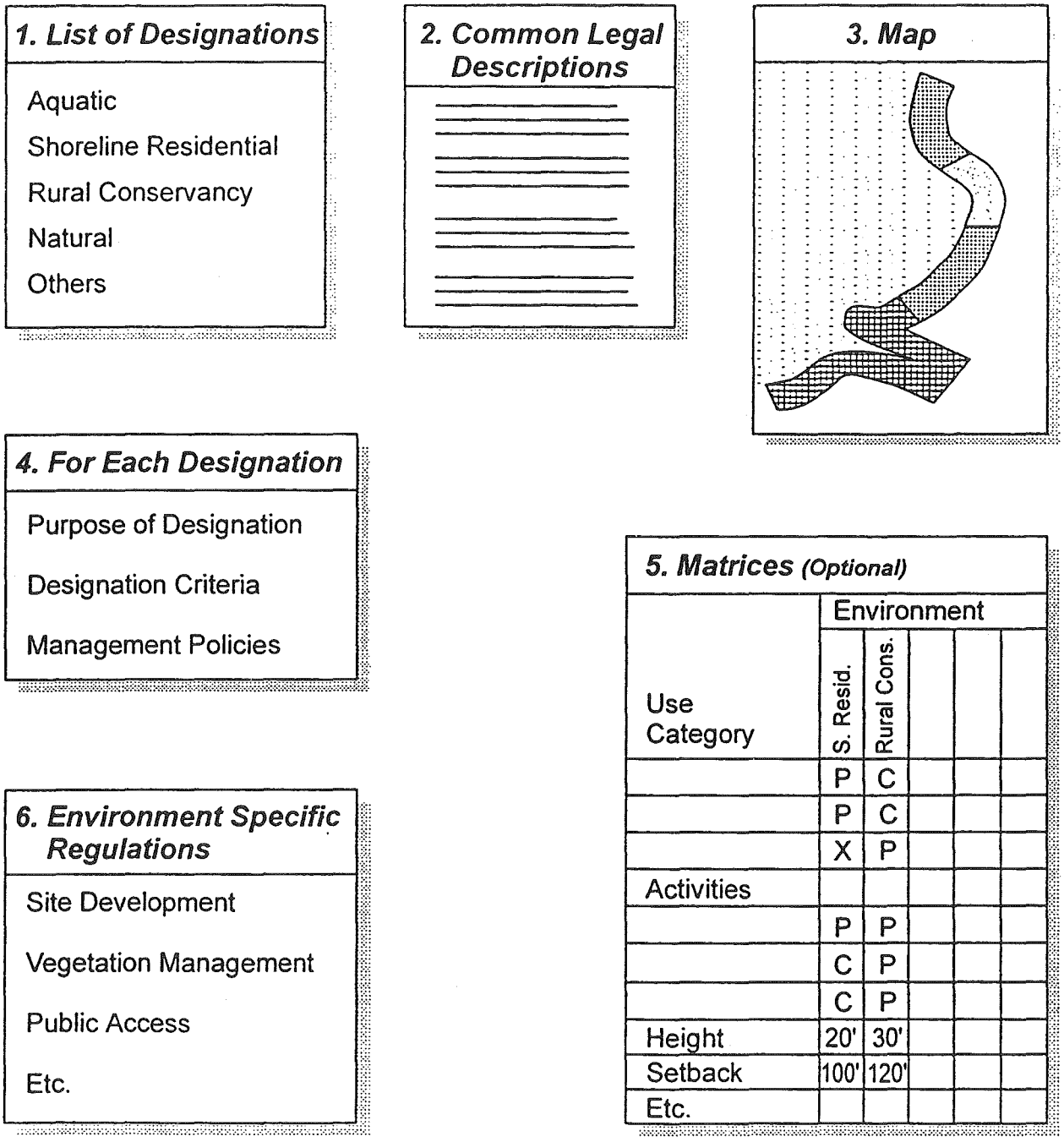

Figure 5. Diagram summarizing the components of the environment designation provisions.
(This is for illustration purposes only and does not supplement or add to the language in the chapter text.)

For each environment designation, the shoreline master program shall describe:

(a) **Purpose statement.**

The statement of purpose shall describe the shoreline management objectives of the designation in a manner that distinguishes it from other designations.

(b) **Classification criteria.**

Clearly stated criteria shall provide the basis for classifying or reclassifying a specific shoreline area with an environment designation.

(c) **Management policies.**

These policies shall be in sufficient detail to assist in the interpretation of the environment designation regulations and, for jurisdictions planning under chapter 36.70A RCW, to evaluate consistency with the local comprehensive plan.

(d) **Regulations.**

Environment-specific regulations shall address the following where necessary to account for different shoreline conditions:

(i) Types of shoreline uses permitted, conditionally permitted, and prohibited;

(ii) Preferred shoreline use requirements;

(iii) Building or structure height and bulk limits, setbacks, maximum density or minimum frontage requirements, and site development standards; and

(iv) Native vegetation conservation, shoreline stabilization, parking, signs, public access, and other topics not covered in general use regulations.

(3) **Consistency between shoreline environment designations and the local comprehensive plan.**

As noted in WAC 173-26-190 (2)(a), RCW 90.58.340 requires that policies for lands adjacent to the shorelines be consistent with the Shoreline Management Act, implementing rules, and the applicable master program. Conversely, local comprehensive plans constitute the underlying framework within which master program provisions should fit. The Growth Management Act, where applicable, designates shoreline master program policies as an element of the comprehensive plan and requires that all elements be internally consistent. Chapter 36.70A RCW also requires development regulations to be consistent with the comprehensive plan.

The following criteria are intended to assist local governments and the department in evaluating the consistency between master program environment designation provisions and the corresponding comprehensive plan elements and development regulations. In order for shoreline designation provisions, local comprehensive plan land use designations, and development regulations to be internally consistent, all three of the conditions below should be met:

(a) **Provisions not precluding one another.**

The comprehensive plan provisions and shoreline environment designation provisions should not preclude one another. To meet this criteria, the provisions of both the comprehensive plan and the master program must be able to be met. The comprehensive plan and master program should make specific provisions for resolving any apparent inconsistency. For example, a local comprehensive plan may identify a large tract of land with a stream corridor running through it as suitable for a new residential development. The comprehensive plan and the master program may be consistent even if the stream is designated "natural," because these two objectives could be achieved in a number of ways: Development could be restricted to two hundred feet landward of the ordinary high-water mark or the stream corridor could be dedicated as a passive park and trail system. Further, when considered together and applied to any one piece of property, the master program use policies and regulations and the local zoning or other use regulations should not conflict in a manner that all viable uses of the property are precluded. For example, if the property is designated as within the shoreline residential environment, it should not be zoned exclusively for industrial use.

(b) **Use compatibility.**

Land use policies and regulations should protect preferred shoreline uses from being impacted by incompatible uses. The intent is to prevent water-oriented uses, especially water-dependent uses, from being restricted on shoreline areas because of impacts to nearby nonwater-oriented uses. To be consistent, master programs, comprehensive plans, and development regulations should prevent new uses that are not compatible with preferred uses from locating where they may restrict preferred uses or development. For example, new residential development should not be allowed near shoreline heavy industrial areas unless the impacts can be mitigated through design standards applied to the new residential development.

(c) **Sufficient infrastructure.**

Infrastructure and services provided in the comprehensive plan should be sufficient to support allowed shoreline uses. Shoreline uses should not be allowed where the comprehensive plan does not provide sufficient roads, utilities, and other services to support them. For example, high-density residential development and industrial uses shall not be allowed unless the comprehensive plan makes provision for needed infrastructure and services at appropriate locations.

In delineating environment designations, local governments should ensure that existing shoreline ecological functions can be protected and degraded shoreline ecological functions restored with the proposed pattern and intensity of urban growth. Infrastructure plans must also be mutually consistent with shoreline designations. Where they do exist, utility services routed through shoreline areas shall not be a sole justification for more intense development.

(4) **Recommended environment designation classifications.**

The recommended classification system consists of six basic environments: "High-intensity," "shoreline residential," "urban conservancy," "rural conservancy," "natural," and "aquatic." Local governments shall assign all shoreline areas an environment designation consistent with WAC 173-26-210 (4) and (5). For the purposes of WAC 173-26-210 (4) and (5), a proposed master program environment designation system is consistent with recommended designations if a given shoreline segment with the characteristics described in one of WAC 173-26-210 (5)(a) through (f) is assigned an environment designation with purpose, management policies, and standards to implement those policies consistent with the corresponding environment designation in WAC 173-26-210 (4)(a) through (f). For example, shoreline areas meeting the criteria in WAC 173-26-210 (5)(d) should be assigned an environment designation with purpose and management policies of the "high-intensity" environment.

Local governments may establish different designations, provided they are consistent with this chapter. For example, a local government wishing to differentiate between "conservancy" shorelines used for park purposes and those for habitat restoration might establish "conservancy-park" and "conservancy-habitat" designations, each with separate purposes, criteria, policies, and use provisions. Or, a local government may wish to set site-specific standards for pier and dock construction in more sensitive aquatic areas and restrict aquaculture in harbor areas by establishing "aquatic-conservancy" and "aquatic-harbor" environments, each with different allowable uses and development standards.

Local governments may use "parallel environments" where appropriate. Parallel environments divide shorelands into different sections generally running parallel to the shoreline or along a physical feature such as a bluff or railroad right of way. Such environments may be useful, for example, to accommodate both resource protection near the shoreline and development opportunities further from the shoreline.

Local governments may retain their current environment designations provided they demonstrate that existing environment designation provisions are consistent with this chapter.

(a) **"Natural" environment.**

(i) **Purpose.**

The purpose of the "natural" environment is to protect and restore those shoreline areas that are relatively free of human influence or that include intact or minimally degraded shoreline functions intolerant of human use. These systems require restrictions on the intensities and types of uses permitted to maintain the ecological functions and ecosystem-wide processes.

(ii) **Management policies.**

(A) Any use that would substantially degrade the ecological functions or natural character of the shoreline area should not be allowed.

(B) The following new uses should not be allowed in the "natural" environment:

- Residences (except as noted below).
- Commercial uses.
- Industrial uses.
- Agriculture that involves tilling the earth or clearing native plant communities.
- Nonwater-oriented recreation.
- Roads, utility corridors, and parking areas that can be located outside of "natural"-designated shorelines.

Limited development, including residential development, may be allowed as a conditional use within the "natural" environment if such shoreline master program provisions result in a greater level of ecological functions.

(C) Commercial forestry may be allowed as a conditional use in the "natural" environment provided it meets the conditions of the State Forest Practices Act and its implementing rules.

(D) Access may be permitted for scientific, historical, cultural, educational, and low-intensity water-oriented recreational purposes, provided that no significant ecological impact on the area will result.

(E) New development or significant vegetation removal that would reduce the capability of vegetation to perform normal ecological functions should not be allowed. Do not allow the subdivision of property in a configuration that, to achieve its intended purpose, will require significant vegetation removal or shoreline modification that adversely impacts ecological functions. That is, each new property parcel must be able to support its intended development without significant ecological impacts to the shoreline or to the vegetation necessary to maintain ecological functions.

(b) **"Rural conservancy" environment.**

(i) **Purpose.**

The purpose of the "rural conservancy" environment is to protect, conserve, and restore ecological functions, existing natural resources, and valuable historic and cultural areas in order to achieve ecological protection, sustain resource use, achieve natural flood plain processes, and provide recreational opportunities. Examples of uses that are appropriate in a "rural conservancy" environment include low-impact outdoor recreation uses, timber harvesting on a sustained-yield basis, agricultural uses, aquaculture, low-intensity residential development consistent with the local comprehensive plan's rural element and chapter 36.70A RCW, and other related low-intensity uses.

(ii) **Management policies.**

(A) Uses in the "rural conservancy" environment should be limited to those which are nonconsumptive (i.e., do not deplete over time) of the shoreline area's physical and biological resources and uses of a nonpermanent nature that do not substantially degrade ecological functions or the rural or natural character of the shoreline area. Shoreline habitat restoration and environmental enhancement are preferred uses.

Except as noted below, commercial and industrial uses should not be allowed. Agricultural practices, commercial forestry, and aquaculture when consistent with provisions of this chapter may be allowed. Nonconsumptive, water-oriented commercial and industrial uses may be permitted in the limited instances where those uses have located in the past or at unique sites in rural communities that possess shoreline conditions and services to support the development.

Water-dependent and water-enjoyment recreation facilities that do not deplete the resource over time, such as boating facilities, angling, hunting, wildlife viewing trails, and swimming beaches, are preferred uses, provided significant ecological impacts to the shoreline are avoided or mitigated.

(B) Developments and uses that would substantially degrade or permanently deplete the physical or biological resources of the area should not be allowed.

(C) Construction of new structural shoreline stabilization and flood control works should not be allowed except where there is a documented need to protect an existing structure or ecological functions and mitigation is applied, consistent with WAC 173-26-230. New development should be designed and located to preclude the need for such work.

(D) For jurisdictions planning under the Growth Management Act, new residential development in the "rural conservancy" environment should be consistent with the comprehensive plan rural element and with RCW 36.70A.070(5). Residential development standards should prevent significant cumulative adverse impacts to the shoreline environment. If existing development does not conform to rural element provisions, then the master program should address nonconforming uses in ways that restore ecological functions over time.

For jurisdictions not planning under the Growth Management Act, development should be limited to a maximum of ten percent total impervious surface area within the lot or parcel lying in shoreline jurisdiction, unless an alternative standard is developed based on scientific information that meets the provisions of this chapter and protects shoreline ecological functions.

Master programs for jurisdictions not planning under the Growth Management Act may allow greater lot coverage to allow development of lots legally created prior to the adoption of a master program prepared under these guidelines. In these instances, master programs shall require that lot coverage is minimized, that impacts are mitigated according to the mitigation sequence defined in WAC 173-26-020, and that development of lots created after the adoption of a master program prepared under these guidelines does not exceed ten percent impervious surface area within shoreline jurisdiction.

(E) New shoreline stabilization, flood control measures, vegetation removal, and other shoreline modifications should be designed and managed to ensure that the natural shoreline functions are protected and restored over time. Shoreline ecological restoration should be required of new development or redevelopment where the shoreline ecological functions have been degraded.

(c) **"Aquatic" environment.**

(i) **Purpose.**

The purpose of the "aquatic" environment is to protect, restore, and manage the unique characteristics and resources of the areas waterward of the ordinary high-water mark.

(ii) **Management policies.**

(A) Allow new over-water structures only for water-dependent uses, public access, or ecological restoration.

(B) The size of new over-water structures should be limited to the minimum necessary to support the structure's intended use.

(C) In order to reduce the impacts of shoreline development and increase effective use of water resources, multiple use of over-water facilities should be encouraged.

(D) All developments and uses on navigable waters or their beds should be located and designed to minimize interference with surface navigation, to consider impacts to public views, and to allow for the safe, unobstructed passage of fish and wildlife, particularly those species dependent on migration.

(E) Uses that cause significant ecological impacts to critical saltwater and freshwater habitats should not be allowed. Where those uses are necessary to achieve the objectives of RCW 90.58.020, their impacts shall be mitigated according to the sequence defined in WAC 173-26-020.

(F) Shoreline uses and modifications should be designed and managed to prevent degradation of water quality and alteration of natural hydrographic conditions.

(d) **"High-intensity" environment.**

(i) **Purpose.**

The purpose of the "high-intensity" environment is to provide for high-intensity water-oriented commercial, transportation, and industrial uses while protecting existing ecological functions and restoring ecological functions in areas that have been previously degraded.

(ii) **Management policies.**

(A) In regulating uses in the "high-intensity" environment, first priority should be given to water-dependent uses. Second priority should be given to water-related and water-enjoyment uses. Nonwater-oriented uses should not be allowed except as part of mixed-use developments or existing developed areas supporting water-dependent uses. Nonwater-oriented uses may also be allowed in limited situations where they do not conflict with or limit opportunities for water-oriented uses or on sites where there is no direct access to the shoreline. Such specific situations should be identified in shoreline use analysis or special area planning, as described in WAC 173-26-200 (3)(d).

If an analysis of water-dependent use needs as described in WAC 173-26-200 (3)(d) demonstrates the needs of existing and envisioned water-dependent uses for the planning period are met, then provisions allowing for a mix of water-dependent and nonwater-dependent uses may be established. If those shoreline areas also provide ecological functions, apply standards to prevent significant ecological impacts to those functions.

(B) Full utilization of existing urban areas should be achieved before further expansion of intensive development is allowed, provided that as development occurs, ecological functions are maintained or restored. Reasonable long-range projections of regional economic need should guide the amount of shoreline designated "high-intensity." However, nonwater-oriented uses should not be considered when determining full utilization of urban waterfronts.

(C) New development should protect and restore shoreline ecological functions. Where applicable, new development shall include environmental cleanup and restoration of the shoreline in accordance with state and federal requirements.

(D) Where feasible, visual and physical public access should be required as provided for in WAC 173-26-220 (4)(d).

(E) Aesthetic objectives should be actively implemented by means such as sign control regulations, appropriate development siting, screening and architectural standards, and maintenance of natural vegetative buffers. Local governments may implement this guideline by adopting a master program policy for aesthetic objectives and implementing the policy through other development regulations, such as sign or design review ordinances.

(e) **"Urban conservancy" environment.**

(i) **Purpose.**

The purpose of the "urban conservancy" environment is to protect and restore ecological functions in urban and developed settings, while allowing a variety of water-oriented uses.

(ii) **Management policies.**

(A) During development and redevelopment, all reasonable efforts should be taken to restore ecological functions. Where feasible, shoreline restoration and public access should be required of all nonwater-dependent development on previously developed shorelines.

(B) Standards should be established for shoreline stabilization measures, vegetation conservation, water quality, and shoreline modifications within the "urban conservancy" designation to ensure that new development does not further degrade the shoreline and is consistent with an overall goal to improve ecological functions.

(C) Public access and public recreation objectives should be implemented whenever feasible and significant ecological impacts can be mitigated.

(D) Water-oriented uses should be given priority over nonwater-oriented uses. For shoreline areas adjacent to commercially navigable waters, water-dependent uses should be given highest priority.

(f) **"Shoreline residential" environment.**

(i) **Purpose.**

The purpose of the "shoreline residential" environment is to accommodate residential development and appurtenant structures that are consistent with this chapter. An additional

purpose is to provide appropriate public access and recreational uses.

(ii) **Management policies.**

(A) Development should be permitted only in those shoreline areas where adequate setbacks or buffers are possible to protect ecological functions, there are adequate access, water, sewage disposal, and utilities systems, and public services available and the environment can support the proposed use in a manner which protects or restores the ecological functions.

(B) Densities or minimum frontage width standards in the "shoreline residential" environment should be set to protect the shoreline ecological functions, taking into account the environmental limitations and sensitivity of the shoreline area, the level of infrastructure and services available, and other comprehensive planning considerations.

Local governments may establish two or more different "shoreline residential" environments to accommodate different shoreline densities or conditions, provided both environments adhere to the provisions in this chapter.

(C) Development standards for setbacks or buffers, shoreline stabilization, vegetation conservation, critical area protection, and water quality should be established to protect and, where significant ecological degradation has occurred, restore ecological functions over time.

(D) Multifamily and multilot residential and recreational developments should provide public access and joint use for community recreational facilities.

(E) Access, utilities, and public services should be available and adequate to serve existing needs and/or planned future development.

(F) Commercial development should be limited to water-oriented uses.

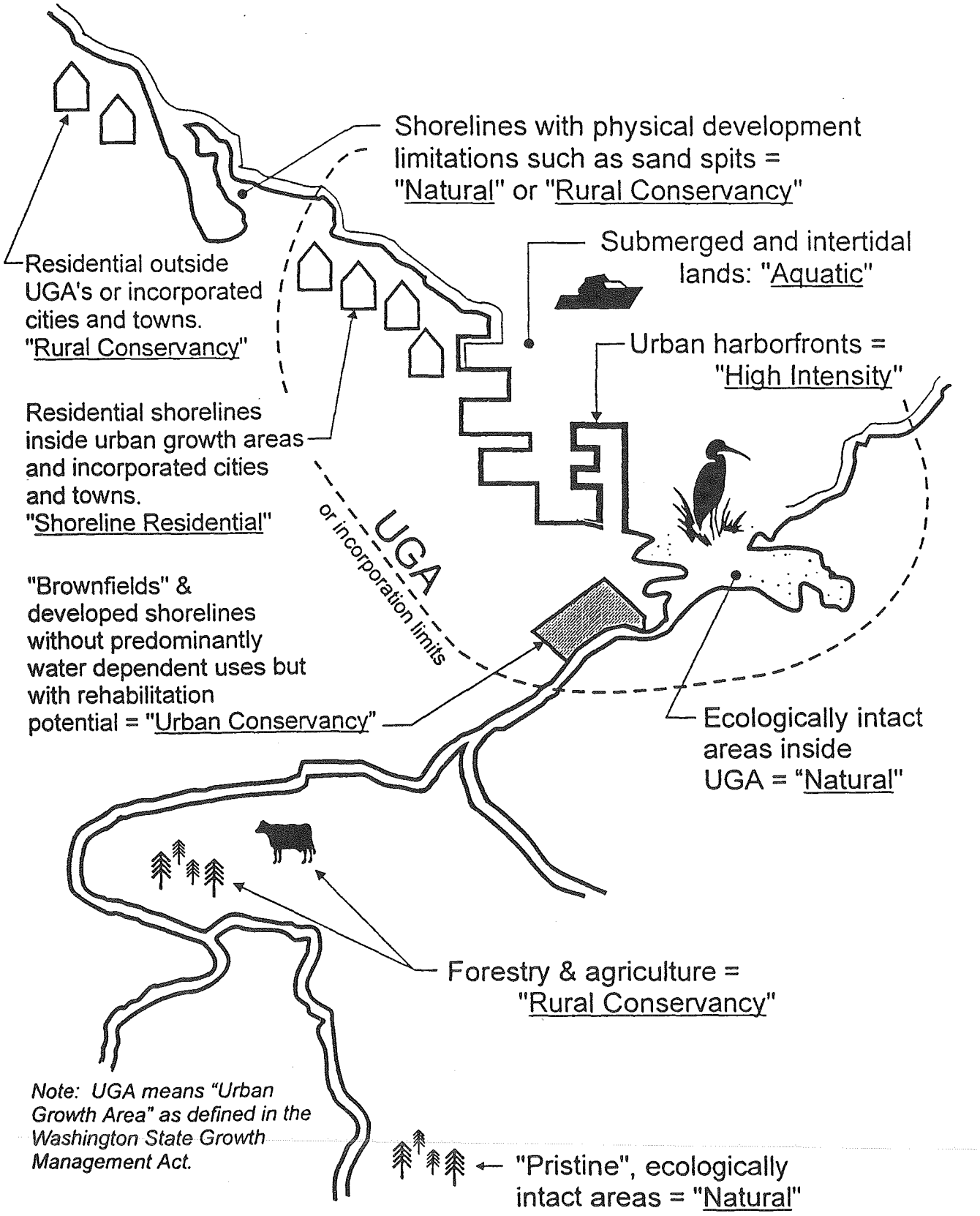

Figure 6. Schematic illustration of typical environment designations.
(This is for illustration purposes only and does not supplement or add to the language in the chapter text.)

(5) **Criteria for assigning environment designation boundaries.**

Local governments shall assign shoreline environment designations (environments) to all shoreline areas consistent with the criteria in (a) through (f) of this subsection.

(a) **"Natural" environment criteria.**

Assign a "natural" environment designation to shoreline areas if any of the following characteristics apply:

(i) The shoreline is ecologically intact and therefore currently performing an important, irreplaceable function or ecosystem-wide process that would be damaged by human activity;

(ii) The shoreline is considered to represent ecosystems and geologic types that are of particular scientific and educational interest; or

(iii) The shoreline is unable to support new development or uses without significant ecological impacts to ecological functions or risk to human safety.

Such shoreline areas include largely undisturbed portions of shoreline areas such as wetlands, estuaries, unstable bluffs, coastal dunes, spits, and ecologically intact shoreline habitats. Shorelines inside or outside urban growth areas may be designated as "natural."

Local governments are encouraged to designate parallel environments as "natural" in order to achieve a higher level of ecological protection. For example, an undisturbed area between a shoreline and a roadway may be designated as "natural" even if the area landward of the roadway is no longer ecologically intact.

(b) **"Rural conservancy" environment criteria.**

Assign a "rural conservancy" environment designation to shoreline areas outside incorporated municipalities and outside urban growth areas, as defined by RCW 36.70A.110, if any of the following characteristics apply:

(i) The shoreline is currently supporting lesser-intensity resource-based uses, such as agriculture, forestry, or recreational uses, or is designated agricultural or forest lands pursuant to RCW 36.70A.170;

(ii) The shoreline is currently accommodating residential uses outside urban growth areas and incorporated cities or towns;

(iii) The shoreline is supporting human uses but subject to environmental limitations, such as properties that include or are adjacent to steep banks, feeder bluffs, or flood plains or other flood-prone areas;

(iv) The shoreline is of high recreational value or with unique historic or cultural resources; or

(v) The shoreline has low-intensity water-dependent uses.

Areas designated in a local comprehensive plan as "rural areas of more intense development," as provided for in chapter 36.70A RCW, may be designated an alternate shoreline environment, provided it is consistent with the objectives of the Growth Management Act and this chapter. "Master planned resorts" as described in RCW 36.70A.360 may be designated an alternate shoreline environment, provided the applicable master program provisions do not allow significant ecological impacts.

Lands designated as "mineral resource lands" pursuant to RCW 36.70A.170 and WAC 365-190-070 may be assigned a subdesignation of "rural conservancy" environment that allows mineral extraction, provided the provisions for that designation conform to WAC 173-26-240 (3)(h) and this chapter and protect ecological functions.

(c) **"Aquatic" environment criteria.**

Assign an "aquatic" environment designation to lands waterward of the ordinary high-water mark.

Local governments may designate submerged and intertidal lands with shoreland designations (e.g., "high-intensity" or "rural conservancy") if the management policies and objectives for aquatic areas are met. In this case, the designation system used must provide regulations for managing submerged and intertidal lands that are clear and consistent with the "aquatic" environment management policies in this chapter. Additionally, local governments may assign an "aquatic" environment designation to wetlands.

(d) **"High-intensity" environment criteria.**

Assign a "high-intensity" environment designation to shoreline areas within incorporated municipalities, urban growth areas, and industrial or commercial "rural areas of more intense development," as described by RCW 36.70A.070, if they currently support or are suitable and planned for high-intensity water-dependent uses related to commerce, transportation, or navigation.

(e) **"Urban conservancy" environment criteria.**

Assign an "urban conservancy" environment designation to shoreline areas appropriate and planned for development that are not generally suitable for water-dependent uses and that lie in incorporated municipalities, urban growth areas, or commercial or industrial "rural areas of more intense development" if any of the following characteristics apply:

(i) They are suitable for water-related or water-enjoyment uses;

(ii) They are flood plains or other areas that should not be more intensively developed;

(iii) They have potential for ecological restoration;

(iv) They retain important ecological functions, even though partially developed; or

(v) They have the potential for development that incorporates ecological restoration.

Lands designated as "mineral resource lands" pursuant to RCW 36.70A.170 and WAC 365-190-070 may be assigned a subdesignation of "urban conservancy" environment that allows mineral extraction, provided the provisions for that designation conform to WAC 173-26-240 (3)(h) and this chapter and protect ecological functions.

(f) **"Shoreline residential" environment criteria.**

Assign a "shoreline residential" environment designation to shoreline areas inside urban growth areas, as defined in RCW 36.70A.110, incorporated municipalities, "rural areas of more intense development," or "master planned resorts," as described in RCW 36.70A.360, if they are predominantly single-family or multifamily residential development or are planned and platted for residential development.

[Statutory Authority: RCW 90.58.060 and 90.58.200. 00-24-031 (Order 95-17a), § 173-26-210, filed 11/29/00, effective 12/30/00.]

WAC 173-26-220 General master program provisions. (1) **Archaeological and historic resources.**

(a) **Applicability.**

The following provisions apply to archaeological and historic resources that are either recorded at the State Historic Preservation Office and/or by local jurisdictions or have been inadvertently uncovered. Archaeological sites located both in and outside shoreline jurisdiction are subject to chapter 27.44 RCW (Indian graves and records) and chapter 27.53 RCW (Archaeological sites and records) and shall comply with chapter 25-48 WAC as well as the provisions of this chapter.

(b) **Principles.**

Due to the limited and irreplaceable nature of the resource(s), prevent the destruction of or damage to any site having historic, cultural, scientific, or educational value as identified by the appropriate authorities, including affected Indian tribes, and the office of archaeology and historic preservation.

(c) **Standards.**

Local shoreline master programs shall include policies and regulations to protect historic, archaeological, and cultural features and qualities of shorelines and implement the following standards. A local government may reference historic inventories or regulations. Contact the office of archaeology and historic preservation and affected Indian tribes for additional information.

(i) Require that developers and property owners immediately stop work and notify the local government, the office of archaeology and historic preservation and affected Indian tribes if anything of possible archaeological interest is uncovered during excavation.

(ii) Require that permits issued in areas documented to contain archaeological artifacts and data require a site inspection or evaluation by a professional archaeologist in coordination with affected Indian tribes.

(2) **Critical areas.**

(a) **Applicability.**

The provisions of this section shall apply to all critical areas, as defined by chapter 36.70A RCW, that lie within shoreline jurisdiction. Implementation of RCW 90.58.020 includes the management of critical areas in the shoreline in order to protect human health and safety and the state's natural resources. RCW 36.70A.030 defines critical areas as stated below:

(5) "Critical areas" include the following areas and ecosystems:

(a) Wetlands;

(b) Areas with a critical recharging effect on aquifers used for potable waters;

(c) Fish and wildlife habitat conservation areas;

(d) Frequently flooded areas; and

(e) Geologically hazardous areas.

See WAC 365-190-080 for further definition of critical area categories and management policies.

(b) **Principles.**

Local master programs shall implement the following principles:

(i) Protect against adverse effects to the public health, the land and its vegetation and wildlife, and the waters of the state and their aquatic life. Promote and enhance the public interest by protecting and restoring ecological functions and ecosystem-wide processes.

(ii) In addressing issues related to critical areas, use scientific and technical information, as described in WAC 173-26-200 (2)(a), and include best available science, as provided for in chapter 36.70A RCW.

(iii) Where necessary for the protection of the ecological functions of a critical area, review provisions outside the designated critical area pursuant to RCW 90.58.340.

(iv) In protecting and restoring critical areas within shoreline jurisdiction, integrate the full spectrum of planning and regulatory measures, including the comprehensive plan, interlocal watershed plans, local development regulations, and state, tribal, and federal programs.

(v) The objective of shoreline management provisions for critical areas shall be the protection of existing ecological functions and ecosystem-wide processes and restoration of degraded areas to upgrade ecological functions and ecosystem-wide processes. Appropriate systems to address this goal include a littoral drift cell for marine waters or a watershed sub-basin for freshwaters. Local governments should accomplish this on a comprehensive basis, as described in WAC 173-26-200 (3)(d)(i), (e), (f), and (g).

(vi) Promote human uses and values, such as aesthetic values, provided they do not adversely impact ecological functions.

(vii) Implement, where applicable and consistent with the objectives of the Shoreline Management Act, the minimum guidelines in WAC 365-190-080.

(c) **Standards.**

Shoreline master programs shall adhere to the following standards, unless it is demonstrated through scientific and technical information and best available science that an alternative approach provides better resource protection. Provisions for frequently flooded areas are included in WAC 173-26-220(3). When preparing master program provisions for critical areas, local governments shall include best available science, as defined in RCW 36.70A.172(1), and use scientific and technical information, as provided for in WAC 173-26-200 (2)(a).

(i) **Wetlands.**

(A) **Wetland use regulations.**

Local governments should consult the department's technical guidance documents on wetlands.

Use regulations shall address the following uses to achieve, at a minimum, no net loss of wetland area and functions, including lost time when the wetland does not perform the function:

- The removal, excavation, grading, or dredging of soil, sand, gravel, minerals, organic matter, or material of any kind;
- The dumping, discharging, or filling with any material, including discharges of storm water and domestic, commercial, or industrial wastewater;
- The draining, flooding, or disturbing of the water level, duration of inundation, or water table;
- The driving of pilings;
- The placing of obstructions;
- The construction, reconstruction, demolition, or expansion of any structure;

• Significant vegetation removal, provided that these activities are not part of a forest practice governed under chapter 76.09 RCW and its rules; or

• Other uses or development that results in a significant ecological impact to the physical, chemical, or biological characteristics of wetlands.

• Activities reducing the functions of buffers described in (c)(i)(D) of this subsection.

(B) **Wetland rating or categorization.**

Wetlands shall be categorized based on the rarity, irreplaceability, or sensitivity to disturbance of a wetland and the functions the wetland provides. Local governments should either use the Washington State Wetland Rating System, Eastern or Western Washington version as appropriate, or they should develop their own, regionally specific, scientifically based method for categorizing wetlands. Wetlands should be categorized to reflect differences in wetland quality and function in order to tailor protection standards appropriately. A wetland categorization method is not a substitute for a function assessment method, where detailed information on wetland functions is needed.

(C) **Alterations to wetlands.**

Master program provisions addressing alterations to wetlands shall be consistent with the policy of no net loss of wetland area and functions, wetland rating, scientific and technical information, and the mitigation priority sequence defined in WAC 173-26-020.

(D) **Buffers.**

Master programs shall contain requirements for buffer zones around wetlands. Buffer requirements shall be adequate to ensure that wetland functions are protected and maintained in the long-term. Requirements for buffer zone widths and management shall take into account the ecological functions of the wetland, the characteristics and setting of the buffer, the potential impacts associated with the adjacent land use, and other relevant factors.

(E) **Mitigation.**

Master programs shall contain wetland mitigation requirements that are consistent with the definition of mitigation in WAC 173-26-020 and which are based on the wetland rating.

(F) **Compensatory mitigation.**

Compensatory mitigation should be allowed only after mitigation sequencing is applied.

Requirements for compensatory mitigation must include provisions for:

(I) Mitigation replacement ratios or a similar method of addressing the following:

• The risk of failure of the compensatory mitigation action;

• The length of time it will take the compensatory mitigation action to adequately replace the impacted wetland functions and values;

• The gain or loss of the type, quality, and quantity of the ecological functions of the compensation wetland as compared with the impacted wetland.

(II) Establishment of performance standards for evaluating the success of compensatory mitigation actions;

(III) Establishment of long-term monitoring and reporting procedures to determine if performance standards are met; and

(IV) Establishment of long-term protection and management of compensatory mitigation sites.

Credits from a state certified mitigation bank may be used to compensate for unavoidable impacts in accordance with chapter 90.84 RCW and chapter 173-700 WAC.

(ii) **Geologically hazardous areas.**

Restrict new development in geologically hazardous areas. Consult minimum guidelines for geologically hazardous areas, WAC 365-190-080(4).

Do not allow new development or the creation of new lots that would cause foreseeable risk from geological conditions to people or ecological functions during the life of the development.

Do not allow new development that would require structural shoreline stabilization over the life of the development. Exceptions may be made for the limited instances where stabilization is necessary to protect allowed uses where no alternative locations are available and significant ecological impacts are mitigated. The stabilization measures shall conform to WAC 173-26-230.

Where no alternatives, including relocation or reconstruction of existing structures, are found to be feasible, and less expensive than the proposed stabilization measure, stabilization structures or measures to protect existing primary residential structures may be allowed in strict conformance with WAC 173-26-230 requirements and then only if significant ecological impacts are adequately mitigated.

In such cases, the "softest" measure that effectively protects the structure shall be used. For example, bioengineering or vegetation enhancement shall be employed instead of engineered structures where they are effective. See WAC 173-26-230 (3)(a)(i).

(iii) **Critical saltwater habitats** and shorelands associated with marine waters and estuaries.

(A) **Applicability.**

Critical saltwater habitats include all kelp beds, eelgrass beds, spawning and holding areas for forage fish, such as herring, smelt and sandlance, commercial and recreational shellfish beds, mudflats, intertidal habitats with vascular plants, and areas with which priority species have a primary association. Critical saltwater habitats require a higher level of protection due to the important ecological functions they provide. Ecological functions of marine shorelands can affect the viability of critical saltwater habitats. Therefore, effective protection and restoration of critical saltwater habitats should integrate management of shorelands as well as submerged areas.

(B) **Principles.**

Master programs should implement saltwater habitat management planning to protect and restore critical saltwater habitats by establishing coordinated master program policies and regulations. Local governments should review relevant comprehensive plan policies and development regulations for shorelands and adjacent lands to achieve consistency as directed in RCW 90.58.340. The management planning shall incorporate the participation of state resource agencies and affected Indian tribes and serve as the basis for master pro-

gram provisions. Local governments should base management planning on information provided by state resource agencies and affected Indian tribes unless they demonstrate that they possess more accurate and reliable information.

The management planning should include an evaluation of current data and trends regarding the following:

- Available inventory and collection of necessary data regarding physical characteristics of the habitat, including upland conditions, and any information on species population trends;
- Terrestrial and aquatic vegetation;
- The level of human activity in such areas, including the presence of roads and level of recreational types (passive or active recreation may be appropriate for certain areas and habitats);
- Restoration potential;
- Tributaries and small streams flowing into marine waters;
- Dock and bulkhead construction, including an inventory of bulkheads serving no protective purpose;
- Conditions and ecological functions in the near-shore area;
- Uses surrounding the critical saltwater habitat areas that may negatively impact those areas, including permanent or occasional upland, beach, or over-water uses; and
- An analysis of what data gaps exist and a strategy for gaining this information.

The management planning should address the following, where applicable:

- Protecting a system of fish and wildlife habitats with connections between larger habitat blocks and open spaces and restoring such habitats and connections where they are degraded;
- Protecting existing and restoring degraded riparian and estuarine ecosystems, especially salt marsh habitats;
- Establishing adequate buffer zones around these areas to separate incompatible uses from the habitat areas;
- Protecting existing and restoring degraded near-shore habitat;
- Protecting existing and restoring degraded or lost salmonid habitat;
- Protecting existing and restoring degraded upland ecological functions important to critical saltwater habitats, including riparian vegetation;
- Improving water quality;
- Protecting existing and restoring degraded sediment inflow and transport regimens; and
- Correcting activities that cause excessive sediment input where human activity has led to mass wasting.

Local governments, in conjunction with state resource agencies and affected Indian tribes, should classify critical saltwater habitats and protect and restore seasonal ranges and habitat elements with which federal- and state-listed endangered, threatened, and priority species have a primary association and which, if altered, may reduce the likelihood that a species will maintain its population and reproduce over the long term.

Local governments, in conjunction with state resource agencies and affected Indian tribes, should determine which habitats and species are of local importance.

All public and private tidelands or bedlands suitable for shellfish harvest shall be classified as critical areas. Local governments should consider both commercial and recreational shellfish areas. Local governments should review the Washington department of health classification of commercial and recreational shellfish growing areas to determine the existing condition of these areas. Further consideration should be given to the vulnerability of these areas to contamination or potential for recovery. Shellfish protection districts established pursuant to chapter 90.72 RCW shall be included in the classification of critical shellfish areas. Local governments shall classify kelp and eelgrass beds identified by the department of natural resources' aquatic lands division, the department, and affected Indian tribes as critical saltwater habitats.

Comprehensive saltwater habitat management planning should identify methods for monitoring conditions and adapting management practices to new information.

(C) **Standards.**

Docks, bulkheads, bridges, fill, floats, jetties, utility crossings, and other human-made structures shall not intrude into or over critical saltwater habitats except when all of the conditions below are met:

- The public's need for such an action or structure is clearly demonstrated and the proposal is consistent with protection of the public trust, as embodied in RCW 90.58.020;
- Avoidance of impacts to critical saltwater habitats by an alternative alignment or location is not feasible;
- The project is designed to minimize its impacts on critical saltwater habitats and the environment;
- Significant ecological impacts will be mitigated through the mitigation sequence described in WAC 173-26-020; and
- The project is consistent with the state's interest in resource protection and species recovery.

Until an inventory of critical saltwater habitat has been done, shoreline master programs shall condition all over-water and near-shore developments with the requirement for an inventory of the site and adjacent beach sections to assess the presence of critical saltwater habitats and functions. The methods and extent of the inventory shall be consistent with accepted research methodology. At a minimum, local governments should consult with department technical assistance materials for guidance.

(iv) **Critical freshwater habitats, including riverine corridors and other freshwater fish and wildlife conservation areas.**

(A) **Applicability.**

The following applies to master program provisions and shoreline management activities within shoreline jurisdiction affecting critical freshwater habitats, including streams, rivers, wetlands, and lakes, their associated channel migration zones, and flood plains.

(B) **Principles.**

Many ecological functions of riverine corridors depend both on the continuity of the natural environment along the length of the shoreline and on the conditions of the surrounding lands on either side of the river channel. Significant damage to the environment, such as a polluting outfall, vegetation

loss, or imperviousness within the watershed, can destroy ecological functions downstream. Likewise, gradual destruction or loss of the vegetation along the corridor or extensive flood plain development can raise water temperatures and alter hydrographic conditions, thereby making the corridor uninhabitable for priority species and susceptible to catastrophic flooding, droughts, and landslides. These conditions can also threaten human health, safety, and property. Therefore, effective management of riverine corridors depends on:

(I) Planning, protecting, and restoring the length of the corridor from river headwaters to the mouth; and

(II) Conservatively regulating the uses within shoreline jurisdiction, the stream channel, associated channel migration zone, wetlands, and the flood plain. Water quality and hydrological processes also depend upon subsurface flows through the adjacent hyporheic zone, surface water run-off, and ground water in lands outside the flood plain. For this reason, comprehensive watershed efforts are the most effective approach to corridor management.

Recognizing that long stretches of riverine shorelines have been altered or degraded from their natural condition, effective riverine management usually requires a two-part strategy of:

- Preventing damage to riverine shoreline areas that retain their ecological functions; and
- Restoring degraded riverine shoreline areas whenever feasible.

Local governments should base master program provisions for critical freshwater fish and wildlife conservation areas on a comprehensive approach, as described in WAC 173-26-200 (3)(d)(i), (e), (f), and (g). As part of this comprehensive approach, local governments should integrate categories of master program provisions, including those for shoreline stabilization, fill, vegetation conservation, water quality, flood hazard reduction, and specific uses, to protect human health and safety and to protect and restore the corridor's ecological functions and ecosystem-wide processes.

Applicable master programs should contain provisions to protect and restore hydrologic connections between water bodies, water courses, and associated wetlands. For example, master programs should require that dikes, roads, or other structures, when allowed, be constructed or refitted to allow the unrestricted natural flow of water between dry or braided channels, associated wetlands, the main river channel, and associated water bodies. Incentives should be provided to restore water connections that have been impeded by previous development.

Master program provisions for riverine corridors should, where appropriate, be based on the information from comprehensive watershed management planning, as indicated in WAC 173-26-200 (3)(c) and (d).

(3) **Flood hazard reduction.**

(a) **Applicability.**

The following provisions apply to actions taken to reduce flood damage or hazard and to uses, development, and shoreline modifications that may increase flood hazards. Flood hazard reduction measures may consist of nonstructural measures, such as setbacks, land use controls, wetland restoration, dike removal, use relocation, biotechnical measures, and storm water management programs, and of structural measures, such as dikes, levees, revetments, floodwalls, channel realignment, and elevation of structures consistent with the National Flood Insurance Program. Additional relevant critical area provisions are in WAC 173-26-220(2).

(b) **Principles.**

Flooding of rivers, streams, and other shorelines is a natural process that is affected by factors and land uses occurring throughout the watershed. Past land use practices have disrupted hydrological processes and increased the rate and volume of runoff, thereby exacerbating flood hazards and reducing ecological functions. Flood hazard reduction measures are most effective when integrated into comprehensive strategies that recognize the natural hydrogeological and biological processes of water bodies. Over the long term, the most effective means of flood hazard reduction is to prevent or remove development in flood-prone areas, to manage storm water within the flood plain, and to maintain or restore the riverine system's natural hydrological and geomorphological processes.

Structural flood hazard reduction measures, such as diking, even if effective in reducing inundation in a portion of the watershed, can intensify flooding elsewhere. Moreover, structural flood hazard reduction measures can damage ecological functions crucial to fish and wildlife species, bank stability, and water quality. Therefore, structural flood hazard reduction measures shall be avoided whenever possible. When necessary, they shall be accomplished in a manner to minimize change to shoreline ecological functions and ecosystem-wide processes. In such cases, set back levees shall be preferred over levees near the floodway.

Master programs shall implement the following principles:

(i) Where feasible, give preference to nonstructural flood hazard reduction measures over structural measures. For example, setback or relocation of structures is generally preferred over new dikes or seawalls.

(ii) Base shoreline master program flood hazard reduction provisions on applicable watershed management plans, comprehensive flood hazard management plans, and other comprehensive planning efforts, provided those measures are consistent with the Shoreline Management Act and this chapter.

(iii) Consider integrating master program flood hazard reduction provisions with other regulations and programs, including (if applicable):

- Storm water management plans;
- Flood plain regulations, as provided for in chapter 86.16 RCW;
- Critical area ordinances and comprehensive plans, as provided in chapter 36.70A RCW; and the
- National Flood Insurance Program.

(iv) Protect and restore the ecological functions while reducing risk to human safety and property. When preparing master program provisions for flood hazard reduction measures, address the protection and restoration of ecological functions and ecosystem-wide processes on a comprehensive basis consistent with WAC 173-26-200 (3)(d)(i), (e), (f), and (g) and 173-26-220 (2)(c)(iv).

(c) **Standards.**

Master programs shall implement the following standards within shoreline jurisdiction:

(i) Do not allow new development that significantly or cumulatively increases flood hazard or that is inconsistent with a comprehensive flood hazard management plan adopted pursuant to chapter 86.12 RCW, provided the plan has been adopted after 1994 and approved by the department. Do not allow new development or new uses in shoreline jurisdiction, including the subdivision of land, that will require structural flood hazard reduction measures within the channel migration zone, except for:

- Actions that protect or restore the ecosystem-wide processes or ecological functions.
- Forest practices in compliance with the Washington State Forest Practices Act and its implementing rules.
- Existing and ongoing agricultural practices, provided that no new restrictions to channel movement occur.
- Bridges, utility lines, and other public utility and transportation structures where no other feasible alternative exists. Where such structures are allowed, mitigation shall be required that protects or restores impacted functions and processes in the affected section of watershed or drift cell.
- Repair and maintenance of an existing legal use, provided that such actions do not cause significant ecological impacts.
- Development on a previously altered site where it is demonstrated that the development returns ecological functions and processes of the applicable section of the watershed or drift cell to a more natural condition.
- Development consistent with a management plan approved by the department of ecology that is directed toward protecting and restoring ecological functions and ecosystem-wide processes.
- Modifications or additions to an existing legal use, provided that channel migration is not further limited and that the new development includes appropriate ecological restoration.
- Development in incorporated municipalities and designated urban growth areas, as defined in Chapter 36.70A RCW, where existing structures prevent active channel movement.
- Measures to reduce shoreline erosion, provided that it is demonstrated that the erosion rate exceeds that which would normally occur in a natural condition, that the measure does not interfere with fluvial hydrological and geomorphological processes normally acting in natural conditions, and that the measure includes appropriate habitat restoration associated with the river or stream. It is the intent of this provision to allow measures that protect property at the same time as restoring ecosystem-wide processes where scientific and technical information demonstrate that this may be accomplished.

(ii) Allow new structural flood hazard reduction measures in shoreline jurisdiction only when it can be demonstrated by a scientific and engineering analysis that they are necessary to protect existing development, that nonstructural measures are not feasible, that impacts to the existing shoreline functions and priority species and habitats can be successfully mitigated, and that appropriate vegetation conservation actions are undertaken consistent with WAC 173-26-220(5).

Structural flood hazard reduction measures shall be consistent with an adopted comprehensive flood hazard management plan approved by the department that evaluates cumulative impacts to the watershed system.

(iii) Require that all new structural flood hazard reduction measures and improvements to existing structures that cause significant ecological impacts include measures to restore ecological functions.

(iv) Place new structural flood hazard reduction measures landward of the floodway, channel migration zone, associated wetlands, and associated vegetation conservation areas, except for actions that increase ecological functions, such as wetland restoration, or as noted below. Consult with Washington's department of fish and wildlife and affected Indian tribes with respect to ecological restoration measures.

Exception: Flood hazard reduction projects as described in this section may occur in a channel migration zone only if it is determined that no other alternative to reduce flood hazard to existing development is feasible. The need for structural improvements in the channel migration zone shall be documented through a geotechnical analysis. If the geotechnical analysis demonstrates a need for the structural measure, assess and mitigate impacts to priority species through a habitat evaluation and application of mitigation sequencing.

(v) Require that new structural public flood hazard reduction measures, such as dikes and levees, dedicate and improve public access pathways unless public access improvements would cause unavoidable health or safety hazards to the public, inherent and unavoidable security problems, unacceptable and unmitigable significant ecological impacts, unavoidable conflict with the proposed use, or a cost that is disproportionate and unreasonable to the total long-term cost of the development.

(vi) Require that the removal of gravel for flood management purposes be consistent with an adopted flood hazard reduction plan and with this chapter and allowed only after a biological and geomorphological study shows that extraction has a long-term benefit to flood hazard reduction, does not cause significant ecological impacts to fish and wildlife, and is part of a comprehensive flood management solution.

(4) **Public access.**

(a) **Applicability.**

Public access includes the ability of the general public to reach, touch, and enjoy the water's edge, to travel on the waters of the state, and to view the water and the shoreline from adjacent locations. Public access provisions below apply to all shorelines of the state unless stated otherwise.

(b) **Principles.**

Local master programs shall:

(i) Promote and enhance the public interest with regard to rights to access waters held in public trust by the state while protecting private property rights and public safety.

(ii) Protect the rights of navigation and space necessary for water-dependent uses.

(iii) To the greatest extent feasible consistent with the overall best interest of the state and the people generally, protect the public's opportunity to enjoy the physical and aes-

thetic qualities of shorelines of the state, including views of the water.

(iv) Regulate the design, construction, and operation of permitted uses in the shorelines of the state to minimize, insofar as practical, interference with the public's use of the water.

(c) **Planning process to address public access.**

Local governments should plan for an integrated shoreline area public access system that identifies specific public needs and opportunities to provide public access. Such a system can often be more effective and economical than applying uniform public access requirements to all development. This planning should be integrated with other relevant comprehensive plan elements, especially transportation and recreation.

Where a port district or other public entity has incorporated public access planning into its master plan through an open public process, that plan may serve as a portion of the local government's public access planning, provided it meets the provisions of this chapter. The planning may also justify more flexible off-site or special area public access provisions in the master program. Public participation requirements in WAC 173-26-200 (3)(b)(i) apply to public access planning.

At a minimum, the public access planning should result in public access requirements for shoreline permits, recommended projects, port master plans, and/or actions to be taken to develop public shoreline access to shorelines on public property. The planning should identify a variety of shoreline access opportunities and circulation for pedestrians—including disabled persons—bicycles, and vehicles between shoreline access points, consistent with other comprehensive plan elements.

(d) **Standards.**

Shoreline master programs shall implement the following standards:

(i) Based on the public access planning described in (c) of this subsection, establish policies and regulations that protect and enhance both physical and visual public access. The master program shall address public access on public lands. The master program should seek to increase the amount and diversity of public access to the state's shorelines consistent with the natural shoreline character, property rights, public rights under the Public Trust Doctrine, and public safety.

(ii) Require that shoreline development by public entities, including local governments, port districts, state agencies, and public utility districts, include public access measures as part of each development project, unless such access is shown to be incompatible due to reasons of safety, security, or impact to the shoreline environment. Where public access planning as described in WAC 173-26-220 (4)(c) demonstrates that a more effective public access system can be achieved through alternate means, such as focusing public access at the most desirable locations, local governments may institute master program provisions for public access based on that approach in lieu of uniform site-by-site public access requirements.

(iii) Provide standards for the dedication and improvement of public access in developments for water-enjoyment, water-related, and nonwater-dependent uses and for the subdivision of land into more than four parcels. In these cases, public access should be required except:

(A) Where the local government provides more effective public access through a public access planning process described in WAC 173-26-220 (4)(c).

(B) Where it is demonstrated to be infeasible due to reasons of incompatible uses, safety, security, or impact to the shoreline environment.

In determining the infeasibility, undesirability, or incompatibility of public access in a given situation, local governments shall consider alternate methods of providing public access, such as off-site improvements, viewing platforms, separation of uses through site planning and design, and restricting hours of public access.

(C) For individual single-family residences not part of a development planned for more than four parcels.

(iv) Adopt provisions, such as maximum height limits, setbacks, and view corridors, to minimize the impacts to existing views from public property or substantial numbers of residences. Where there is an irreconcilable conflict between water-dependent shoreline uses or physical public access and maintenance of views from adjacent properties, the water-dependent uses and physical public access shall have priority, unless there is a compelling reason to the contrary.

(v) Do not allow public access improvements that would cause significant ecological impacts to shoreline ecological functions that cannot be mitigated. Require that public access improvements with the potential to degrade ecological functions be designed to minimize adverse impacts.

(5) **Shoreline vegetation conservation.**

(a) **Applicability.**

Vegetation conservation includes activities to protect and restore vegetation along or near marine and freshwater shorelines that contribute to the ecological functions of shoreline areas. Vegetation conservation provisions include the prevention or restriction of plant clearing and earth grading, vegetation restoration, and the control of invasive weeds and nonnative species.

Unless otherwise stated, vegetation conservation does not include those activities covered under the Washington State Forest Practices Act, except for conversion to other uses and those activities over which local governments have authority. As with all master program provisions, vegetation conservation provisions apply even to those shoreline uses and developments that are exempt from the requirement to obtain a permit. Like other master program provisions, vegetation conservation standards do not apply retroactively to existing uses and structures, such as existing agricultural practices.

(b) **Principles.**

The intent of vegetation conservation is to protect and restore the ecological functions and ecosystem-wide processes performed by vegetation along shorelines. Vegetation conservation should also be undertaken to protect human safety and property, to increase the stability of river banks and coastal bluffs, to reduce the need for structural shoreline stabilization measures, to improve the visual and aesthetic qualities of the shoreline, to protect plant and animal species and their habitats, and to enhance shoreline uses.

Master programs shall include provisions to protect and restore vegetation needed to sustain the ecological functions and ecosystem-wide processes, to avoid adverse impacts to

soil hydrology, and to reduce the hazard of slope failures or accelerated erosion.

In ecologically degraded areas, master program provisions should contribute to the restoration of ecological processes and functions provided by vegetation as development or redevelopment occurs.

Master programs should be directed toward achieving the vegetation characteristics described in *Management Recommendations for Washington's Priority Habitats*, prepared by the Washington state department of fish and wildlife where applicable and based on scientific and technical information.

Local governments should address ecological functions and ecosystem-wide processes provided by vegetation as described in WAC 173-26-200 (3)(d)(i), (e), (f), and (g).

Local governments may implement objectives through a variety of measures, where consistent with Shoreline Management Act policy, including clearing and grading regulations, setback and buffer standards, critical area regulations, conditional use requirements for specific uses or areas, and mitigation requirements.

In establishing vegetation conservation regulations, local governments must use all available scientific and technical information, as described in WAC 173-26-200 (2)(a). At a minimum, local governments should consult shoreline management assistance materials provided by the department.

(c) **Relationship of shoreline vegetation to ecological functions.**

Current scientific evidence indicates that the length, width, and species composition of a shoreline vegetation community contribute substantively to the aquatic ecological functions. Likewise, the biota within the aquatic environment is essential to ecological functions of the adjacent upland vegetation. The ability of vegetated areas to provide critical ecological functions diminishes as the length and width of the vegetated area along shorelines is reduced. When shoreline vegetation is removed, the narrower the area of remaining vegetation, the greater the risk that the functions will not be performed.

Sustaining different individual functions requires different widths of vegetation. The importance of the different functions, in turn, varies with the type of shoreline setting. For example, in forested shoreline settings, periodic recruitment of fallen trees, especially conifers, into the stream channel is an important attribute, critical to natural stream channel maintenance. Therefore, vegetated areas along streams which once supported or could in the future support mature trees should be wide enough to accomplish this periodic recruitment process.

For riverine shoreline environments where trees naturally grow, achieving the full suite of vegetation-related shoreline functions is related to a vegetated area of one mature site potential tree height in width, measured perpendicular from bank full width.

Woody vegetation normally classed as trees may not be a natural component of plant communities in some environments, such as in arid climates and on coastal dunes. In these instances, the width of a vegetated area necessary to achieve the full suite of vegetation-related shoreline functions may not be related to vegetation height.

In addressing the restoration of degraded shorelines, local governments should ensure that required vegetated areas are large enough to be of ecological benefit, even if they are not sufficiently wide to achieve all ecological functions.

Local governments should identify which ecological processes and functions are important to the local aquatic and terrestrial ecology and conserve sufficient vegetation to maintain them.

(d) **Standards.**

Master programs shall implement the following requirements in shoreline jurisdiction.

(i) Do not allow significant vegetation removal that would likely result in soil erosion or in the need for structural shoreline stabilization measures as described in WAC 173-26-230 (3)(a). This does not preclude pruning of trees or removal of noxious weeds.

(ii) Establish vegetation conservation standards that implement the principles in WAC 173-26-220 (5)(b) and (c). Methods to do this may include setback or buffer requirements, clearing and grading standards, environment designation standards, or other master program provisions.

Additional vegetation conservation standards for specific uses are included in WAC 173-26-240(3).

(6) **Water quality, storm water, and nonpoint pollution.**

(a) **Applicability.**

The following section applies to all development and uses in shoreline jurisdiction that affect water quality, as defined in WAC 173-26-020.

(b) **Principles.**

Shoreline master programs shall, as stated in RCW 90.58.020, protect against adverse impacts to the public health, to the land and its vegetation and wildlife, and to the waters of the state and their aquatic life, through implementation of the following principles:

(i) Prevent impacts to water quality and storm water quantity that significantly reduce shoreline ecological functions, aesthetic qualities, or recreational opportunities.

(ii) Ensure mutual consistency between shoreline management provisions and other regulations that address water quality and storm water quantity, including public health, storm water, and water discharge standards. The regulations that are most protective of ecological functions shall apply.

(c) **Standards.**

Shoreline master programs shall include provisions to ensure that new development within shoreline jurisdiction does not cause significant ecological impacts by altering water quality, quantity, or flow characteristics.

[Statutory Authority: RCW 90.58.060 and 90.58.200. 00-24-031 (Order 95-17a), § 173-26-220, filed 11/29/00, effective 12/30/00.]

WAC 173-26-230 Shoreline modifications. (1) **Applicability.**

Local governments are encouraged to prepare master program provisions that distinguish between shoreline modifications and shoreline uses. Shoreline modifications are generally related to construction of a physical element such as a dike, breakwater, dredged basin, or fill, but they can include other actions such as clearing, grading, application of chemi-

cals, or significant vegetation removal. Shoreline modifications usually are undertaken in support of or in preparation for a shoreline use; for example, fill (shoreline modification) required for a cargo terminal (industrial use) or dredging (shoreline modification) to allow for a marina (boating facility use).

The provisions in this section apply to all shoreline modifications within shoreline jurisdiction.

(2) **Principles.**

Master programs shall implement the following principles:

(a) Allow structural shoreline modifications only where they are demonstrated to be necessary to support or protect an allowed principal structure or an existing shoreline use that is in danger of loss or substantial damage.

(b) Reduce the adverse effects of shoreline modifications and, as much as possible, limit shoreline modifications in number and extent.

(c) Allow only shoreline modifications that are appropriate to the specific type of shoreline and environmental conditions for which they are proposed.

(d) Give preference to those types of shoreline modifications that have a lesser impact on ecological functions. For example, in normal circumstances, preference should be given to pile-supported piers, which allow normal water flow, rather than to piers constructed with fill, which alter the normal flow of water.

(e) Where applicable, base provisions on scientific and technical information and a comprehensive analysis of drift cells for marine waters or reach conditions for riverine systems. Contact the department for available drift cell characterizations.

(f) Enhance ecological functions while accommodating existing legally permitted uses. As shoreline modifications occur, incorporate all feasible measures to protect and restore ecological shoreline functions and ecosystem-wide processes. Apply conditions to development authorizations so that structural shoreline modifications for nonwater-dependent uses on degraded sites contribute to the restoration of ecological functions.

(g) Avoid and reduce significant ecological impacts according to the mitigation sequence in WAC 173-26-020.

(3) **Provisions for specific shoreline modifications.**

(a) **Shoreline stabilization.**

(i) **Applicability.**

Shoreline stabilization includes actions taken to address erosion impacts to property and dwellings, businesses, or essential structures caused by natural processes, such as current, flood, tides, wind, or wave action. These actions include structural and nonstructural methods.

Nonstructural methods include building setbacks, relocation of the structure to be protected, ground water management, planning and regulatory measures to avoid the need for structural stabilization.

"Hard" structural stabilization measures refer to those with solid, hard surfaces, such as concrete bulkheads, while "soft" structural measures rely on softer materials, such as biotechnical vegetation measures or beach enhancement. There is a range of measures varying from soft to hard that include:

- Vegetation enhancement;
- Upland drainage control;
- Biotechnical measures;
- Beach enhancement;
- Anchor trees;
- Gravel placement;
- Rock revetments;
- Gabions;
- Concrete groins;
- Retaining walls and bluff walls;
- Bulkheads; and
- Seawalls.

Generally, the harder the construction measure, the greater the impact on shoreline processes, including sediment transport, geomorphology, and biological functions.

Structural shoreline stabilization often results in vegetation removal and damage to near-shore habitat and shoreline corridors. Therefore, master program shoreline stabilization provisions shall also be consistent with WAC 173-26-220(5), vegetation conservation, and WAC 173-26-220(2), critical areas.

The following standards, where applicable to residential bulkheads, implement RCW 90.58.100(6), which states:

Each master program shall contain standards governing the protection of single-family residences and appurtenant structures against damage or loss due to shoreline erosion. The standards shall govern the issuance of substantial development permits for shoreline protection, including structural methods such as construction of bulkheads, and nonstructural methods of protection. The standards shall provide for methods which achieve effective and timely protection against loss or damage to single family residences and appurtenant structures due to shoreline erosion. The standards shall provide a preference for permit issuance for measures to protect single-family residences occupied prior to January 1, 1992, where the proposed measure is designed to minimize harm to the shoreline natural environment.

In order to avoid or mitigate adverse impacts to shoreline functions where shoreline alterations are necessary to protect single-family residences and principal appurtenant structures in danger from active shoreline erosion, prepare standards setting forth the circumstances under which alteration of the shoreline is permitted, and for the design and type of protective measures and devices.

As applied to shoreline stabilization measures, "normal repair" and "normal maintenance" include the patching, sealing, or refinishing of existing structures, the replenishment of sand or other material that has been washed away, and the replacement of less than twenty percent of the structure. Normal maintenance and normal repair are limited to those actions that are typically done on a periodic basis. Construction that causes significant ecological impacts is not considered normal maintenance and repair.

As applied to shoreline stabilization measures, "replacement" means the construction of a new structure to perform a shoreline stabilization function of an existing structure which can no longer adequately serve its purpose.

Additions to or increases in size of existing shoreline stabilization measures shall be considered new structures.

Local governments should consult with technical assistance materials provided by the department. Local governments are encouraged to offer incentives, such as expedient permitting, for removal of unnecessary shoreline stabilization measures.

(ii) **Standards.**

Master programs shall implement the following standards:

(A) New structural stabilization measures shall not be allowed except to protect or support an existing or approved use or an existing or approved development or for the restoration of ecological functions or for hazardous substance remediation pursuant to chapter 70.105D RCW. This is to prevent speculative shoreline stabilization.

(B) New development should be located and designed to eliminate the need for future shoreline stabilization.

(C) New nonwater-dependent development, including single-family residences, that includes structural shoreline stabilization should not be allowed unless all of the conditions below apply:

- The need to protect the development from destruction due to erosion caused by natural processes, such as tidal action, currents, and waves, is demonstrated through a geotechnical report.
- The erosion is not being caused by upland conditions, such as the loss of vegetation and drainage.
- Nonstructural measures, such as placing the development further from the shoreline, planting vegetation, or installing on-site drainage improvements, are not feasible or not sufficient.
- The structure will not cause significant ecological impacts to priority species.

(D) Do not allow shoreline stabilization for new development that would cause significant ecological impacts to adjacent or down-current properties and shoreline areas.

(E) Do not allow the subdivision of land into parcels, or the creation of new lots, that will require shoreline stabilization for development to occur.

(F) New development on steep slopes or bluffs shall be set back sufficiently to ensure that shoreline stabilization will not be needed during the life of the structure, as demonstrated by a geotechnical analysis.

(G) New or enlarged structural shoreline stabilization measures for an existing principal structure or use, including residences, should not be allowed unless there is conclusive evidence, documented by a geotechnical analysis, that the structure is in danger from shoreline erosion caused by tidal action, currents, or waves. Normal sloughing, erosion of steep bluffs, or shoreline erosion itself, without a scientific or geotechnical analysis, is not demonstration of need. The geotechnical analysis should evaluate on-site drainage issues and address drainage problems away from the shoreline edge before considering structural shoreline stabilization. The project design and analysis should also evaluate vegetation enhancement as a means of reducing undesirable erosion.

(H) An existing shoreline stabilization structure may be replaced with a similar structure if there is a demonstrated need to protect principal uses or structures from erosion caused by currents, tidal action, or waves. In this case, demonstration of need does not necessarily require a geotechnical report. The replacement structure should be designed, located, sized, and constructed to minimize harm to ecological functions. Replacement walls or bulkheads shall not encroach waterward of the ordinary high-water mark or existing structure unless the residence was occupied prior to January 1, 1992, and there are overriding safety or environmental concerns. In such cases, the replacement structure shall abut the existing shoreline stabilization structure. Where significant ecological impacts to critical saltwater habitats would occur by leaving the existing structure, remove it as part of the replacement measure. Soft shoreline stabilization that restores ecological functions may be permitted waterward of the ordinary high-water mark.

(I) Where structural shoreline stabilization measures are demonstrated to be necessary, as in the above provisions, limit the size of stabilization measures to the minimum necessary. Use measures designed to minimize harm to ecological functions and apply mitigation through mitigation sequencing. Mitigation shall address the functions lost. Soft approaches shall be used unless demonstrated not to be sufficient to protect primary structures, dwellings, and businesses.

(J) In the design of shoreline stabilization measures, use techniques to restore, as much as possible, the ecological functions of the shoreline. Require mitigation of adverse impacts to shoreline functions in accordance with the mitigation sequence defined in WAC 173-26-020. Include vegetation conservation, as described in WAC 173-26-220(5), as part of shoreline stabilization, where feasible.

(K) Ensure that publicly financed or subsidized shoreline erosion control measures do not restrict appropriate public access to the shoreline except where such access is determined to be infeasible because of incompatible uses, safety, security, or harm to ecological functions. See public access provisions; WAC 173-26-220(4). Where feasible, incorporate ecological restoration and public access improvements into the project.

(L) Mitigate new erosion control measures, including replacement structures, on feeder bluffs or other actions that affect beach sediment-producing areas to avoid and, if that is not possible, to minimize adverse impacts to sediment conveyance systems. Where sediment conveyance systems cross jurisdictional boundaries, local governments should coordinate shoreline management efforts. If beach erosion is threatening existing development, local governments should adopt master program provisions for a beach management district or other institutional mechanism to provide comprehensive mitigation for the adverse impacts of erosion control measures.

(M) For erosion or mass wasting due to upland conditions, see WAC 173-26-220 (2)(c)(ii).

(b) **Piers and docks.**

New piers and docks shall be allowed only for water-dependent uses or public access. Pier and dock construction shall be restricted to the minimum size necessary to meet the needs of the proposed water-dependent use. Water-related and water-enjoyment uses may be allowed as part of mixed-use development on over-water structures where they are clearly auxiliary to and in support of water-dependent uses, provided the minimum size requirement needed to meet the water-dependent use is not violated.

New pier or dock construction, excluding docks accessory to single-family residences, should be permitted only when the applicant has demonstrated that a specific need exists to support the intended water-dependent uses. If a port district or other public or commercial entity involving water-dependent uses has performed a needs analysis or comprehensive master plan projecting the future needs for pier or dock space, and if the plan or analysis is approved by the local government and consistent with these guidelines, it may serve as the necessary justification for pier design, size, and construction. The intent of this provision is to allow ports and other entities the flexibility necessary to provide for existing and future water-dependent uses.

Where new piers or docks are allowed, master programs should contain provisions to encourage new residential development of two or more dwellings to provide joint use or community dock facilities rather than allow individual docks for each residence.

Piers and docks, including those accessory to single-family residences, shall be designed and constructed to avoid or, if that is not possible, to minimize and mitigate the impacts to ecological functions, critical areas resources such as eelgrass beds and fish habitats and processes such as currents and littoral drift. See WAC 173-26-220 (2)(c)(iii) and (iv). Master programs should require that structures be made of materials that have been approved by applicable state agencies.

(c) **Fill.**

Fills shall be located, designed, and constructed to protect shoreline ecological functions and ecosystem-wide processes, including channel migration.

Fills waterward of the ordinary high-water mark shall be allowed only when necessary to support a water-dependent use, public access, cleanup and disposal of contaminated sediments as part of an interagency environmental clean-up plan, mitigation action, environmental restoration, beach nourishment or enhancement project. Fills waterward of the ordinary high-water mark for any use except ecological restoration should require a conditional use permit.

(d) **Breakwaters, jetties, groins, and weirs.**

Breakwaters, jetties, groins, and weirs located waterward of the ordinary high-water mark shall be allowed only where necessary to support water-dependent uses, public access, shoreline stabilization, or other specific public purpose. Breakwaters, jetties, groins, weirs, and similar structures should require a conditional use permit, except for those structures installed to protect or restore ecological functions, such as large woody debris installed in streams. Such structures shall be designed to protect or restore ecological functions and protect critical areas and shall provide for mitigation according to the sequence defined in WAC 173-26-020.

(e) **Beach and dunes management.**

Washington's dunes and their associated beaches lie along the Pacific Ocean coast between Point Grenville and Cape Disappointment, and as shorelines of statewide significance shall be managed from a statewide perspective. Dunes and their beaches within shoreline jurisdiction shall be managed to conserve, protect, where appropriate develop, and where appropriate restore the resources and benefits of coastal dunes. Dunes and associated beaches should also be managed to reduce the hazard to human life and property from natural or human-induced actions associated with these areas.

Shoreline master programs in coastal marine areas shall provide for diverse and appropriate use of beach and dune areas consistent with their ecological, recreational, aesthetic, and economic values, and consistent with the natural limitations of beaches, dunes, and dune vegetation for development. Coastal master programs shall institute development setbacks from the shoreline to prevent impacts to the natural, functional, ecological, and aesthetic qualities of the dune.

"Dune modification" is the removal or addition of material to a dune, the reforming or reconfiguration of a dune, or the removal or addition of vegetation that will alter the dune's shape or sediment migration. Dune modification may be proposed for a number of purposes, including protection of property, flood and storm hazard reduction, erosion prevention, and ecological restoration.

Coastal dune modification shall be allowed only as a conditional use unless a jurisdiction-wide or regional plan for dune management addressing grading, revegetation, and monitoring is carried out consistent with state and federal flood protection standards and approved by the local government and the department.

Dune modification to protect views of the water shall be allowed only where the view is completely obstructed for residences or water-enjoyment uses and where it can be demonstrated that the dunes did not obstruct views at the time of original occupancy, and then only in conformance with the above provisions.

(f) **Dredging and dredge material disposal.**

Dredging and dredge material disposal shall be done in a manner which avoids or minimizes significant ecological impacts.

New development should be sited and designed to avoid or, if that is not possible, to minimize the need for new and maintenance dredging. Dredging for the purpose of establishing, expanding, or relocating navigation channels and basins should be allowed only when significant ecological impacts are minimized and when suitable mitigation is provided. Maintenance dredging of established navigation channels and basins should be restricted to maintaining previously dredged and/or existing authorized location, depth, and width unless necessary to improve navigation.

Dredging waterward of the ordinary high-water mark for the primary purpose of obtaining fill material shall not be allowed, except when the material is necessary for the restoration of ecological functions. When allowed, the site where the fill is to be placed must be located waterward of the ordinary high-water mark. The project must be either associated with a MTCA or CERCLA habitat restoration project or, if approved through a shoreline conditional use permit, any other significant habitat enhancement project. Master programs should include provisions for uses of suitable dredge material that benefit shoreline resources. Where applicable, master programs should provide for the implementation of adopted regional interagency dredge material management plans or watershed management planning.

Disposal of dredge material into river channel migration zones within shoreline jurisdiction but outside harbor areas

shall be discouraged. In the limited instances where it is allowed, such disposal shall require a conditional use permit.

(g) **Shoreline habitat and natural systems enhancement projects.**

Shoreline habitat and natural systems enhancement projects include those activities proposed and conducted specifically for the purpose of establishing, restoring, or enhancing habitat for priority species in shorelines.

Master programs should include provisions fostering habitat and natural system enhancement projects. Such projects may include shoreline modification actions such as modification of vegetation, shoreline stabilization, dredging, and filling, provided that the primary purpose of such actions is clearly restoration of the natural character and ecological functions of the shoreline. Master program provisions shall assure that the projects address legitimate restoration needs and priorities.

[Statutory Authority: RCW 90.58.060 and 90.58.200. 00-24-031 (Order 95-17a), § 173-26-230, filed 11/29/00, effective 12/30/00.]

WAC 173-26-240 Shoreline uses. (1) **Applicability.**

The provisions in this section apply to uses and development within shoreline jurisdiction.

(2) **General use provisions.**

(a) **Principles.**

Shoreline master programs shall implement the following principles:

(i) Establish a system of use and environment designation provisions consistent with WAC 173-26-200 (2)(d) and 173-26-210 that gives preference to those uses that are consistent with the control of pollution and prevention of damage to the natural environment, or are unique to or dependent upon uses of the state's shoreline areas.

(ii) Ensure that all shoreline master program provisions concerning proposed development of property are established, as necessary, to protect the public's health, safety, and welfare, as well as the land and its vegetation and wildlife, and to protect property rights while implementing the policies of the Shoreline Management Act.

(iii) Reduce use conflicts by including provisions to prohibit or apply special conditions to those uses which are not consistent with the control of pollution and prevention of damage to the natural environment or are not unique to or dependent upon use of the state's shoreline. In implementing this provision, preference shall be given first to water-dependent uses, then to water-related uses and water-enjoyment uses.

(iv) Establish regulations to mitigate existing and potential impacts to ecological functions.

(v) Establish use provisions that preserve unique shorelines. Shoreline master programs should establish use provisions that take advantage of shorelines with unique attributes or resources.

(vi) Establish use provisions that encourage the restoration of ecological functions on degraded shorelines.

(b) **Conditional uses.**

Define the types of uses and development that require shoreline conditional use permits. Requirements for a conditional use permit may be used for a variety of purposes, including:

- To effectively address unanticipated uses not classified in the master program as described in WAC 173-27-030.
- To address cumulative impacts.
- To provide the opportunity to require environmental analysis or design modifications of a proposal that would otherwise be inconsistent with Shoreline Management Act policies.

In these cases, allowing a given use as a conditional use could provide greater flexibility within the master program than if the use were prohibited outright.

If master programs permit the following types of uses and development, they should require a conditional use permit:

(i) Uses and development that may significantly impair or alter the public's use of the water areas of the state.

(ii) Uses and development which, by their intrinsic nature, may have a significant ecological impact on shoreline ecological functions or shoreline resources depending on location, design, and site conditions, such as fill waterward of the ordinary high-water mark, disposal of dredge material within a river channel migration zone but outside a harbor area, Class IV general forest practices where shorelines are being converted or are expected to be converted to nonforest uses, breakwaters, jetties, groins, and weirs.

(iii) Development in critical saltwater habitats.

(iv) Other uses and development as identified by local governments.

(3) **Standards.**

Establish master program regulations to address the potential impacts and opportunities of specific shoreline uses that may occur in the jurisdiction.

(a) **Agriculture.**

Applicable master programs shall address new agricultural development that does not meet the definition of existing and ongoing agriculture.

RCW 90.58.030 (3)(e) defines substantial development for agricultural uses. New shoreline master program provisions do not apply retroactively to existing agricultural uses. Existing and ongoing agriculture includes, but is not limited to, the production of horticultural, viticultural, floricultural, livestock, dairy, apiary, vegetable, or animal products or of berries, grain, hay, straw, turf, seed, or Christmas trees; the operation and maintenance of farm and stock ponds, drainage ditches, or irrigation systems; normal crop rotation and crop change; and the normal maintenance and repair of existing structures, facilities, and lands currently under production or cultivation.

New development, clearing, and grading in support of agricultural uses shall be located and designed to avoid significant ecological impacts.

Applicable master programs shall include standards for setbacks, water quality protection, environmental impacts, and vegetation conservation, as described in WAC 173-26-220(5), for new agricultural development, clearing, and grading in shoreline jurisdiction.

Requirements for setbacks for new development shall be based on scientific and technical information and management practices adopted by the applicable state agencies nec-

essary to preserve the functions and qualities of the shoreline environment. In riverine corridors with priority species, the regulations shall be sufficient to ensure no net loss of habitat viability. If the shoreline habitat has been degraded through development or agriculture practices, the master program shall include provisions that result in improved habitat over time.

Agricultural lands within jurisdiction of the Shoreline Management Act which are enrolled in set-aside programs administered by the Natural Resources Conservation Service or the Farm Services Administration of the United States Department of Agriculture, or any other federal, state, or local agency, are considered to remain existing and ongoing agriculture for purposes of the Shoreline Management Act and this rule. This provision is intended to ensure that master program provisions do not prevent agriculture from being resumed after the period of the set-aside program.

(b) **Aquaculture.**

Aquaculture is the culture or farming of food fish, shellfish, or other aquatic plants and animals. This activity is of statewide interest. Properly managed, it can result in long-term over short-term benefit and can protect the resources and ecology of the shoreline. Aquaculture is dependent on the use of the water area and, when consistent with control of pollution and prevention of damage to the environment, is a preferred use of the water area.

Potential locations for aquaculture are relatively restricted due to specific requirements for water quality, temperature, flows, oxygen content, adjacent land uses, wind protection, commercial navigation, and, in marine waters, salinity. The technology associated with some forms of present-day aquaculture is still in its formative stages and experimental. Local shoreline master programs should therefore recognize the necessity for some latitude in the development of this emerging economic water use as well as its potential impact on existing uses and natural systems.

Aquaculture should not be permitted in areas where it would significantly degrade ecological functions over the long term, adversely impact eelgrass and macroalgae, or significantly conflict with navigation and other water-dependent uses. Aquacultural facilities should be designed and located so as not to spread disease to native aquatic life, establish new nonnative species which cause significant ecological impacts, or significantly impact the aesthetic qualities of the shoreline. Impacts to ecological functions shall be mitigated according to the mitigation sequence described in WAC 173-26-020.

(c) **Boating facilities.**

For the purposes of this chapter, "boating facilities" excludes docks serving four or fewer single-family residences. Shoreline master programs shall contain provisions to address potential impacts while providing the boating public recreational opportunities on waters of the state.

Where applicable, shoreline master programs should, at a minimum, contain:

(i) Provisions to ensure that boating facilities are located only at sites with suitable environmental conditions, shoreline configuration, access, and neighboring uses.

(ii) Provisions that assure that facilities meet health, safety, and welfare requirements. Master programs may reference other regulations to accomplish this requirement.

(iii) Regulations to avoid, or if that is not possible, to mitigate visual and significant ecological impacts.

(iv) Provisions for public access in new marinas, particularly where water-enjoyment uses are associated with the marina, in accordance with WAC 173-26-220(4).

(v) Regulations to limit the impacts from boaters living in their vessels (live-aboards).

(vi) Regulations reducing the impacts of parking.

(vii) Regulations restricting or mitigating the impacts of covered moorage.

(viii) Regulations to protect the rights of navigation.

(ix) Regulations restricting vessels from permanently mooring on waters of the state unless a lease or permission is obtained from the state and impacts to navigation and public access are mitigated.

(d) **Commercial development.**

Master programs shall first give preference to water-dependent commercial uses over nonwater-dependent commercial uses; and second, give preference to water-related and water-enjoyment commercial uses over nonwater-oriented commercial uses.

Require that public access and ecological restoration be considered for all water-dependent commercial development. Require that public access and ecological restoration be a condition of all nonwater-dependent commercial development unless such improvements are demonstrated to be infeasible or inappropriate. Refer to WAC 173-26-220(4) for public access provisions.

Master programs should exclude nonwater-oriented commercial uses from locating on the shoreline unless they provide public access and ecological restoration and they meet at least one of the following criteria:

(i) The use is part of a mixed-use project or area that includes water-dependent uses;

(ii) Navigability is severely limited at the proposed site; or

(iii) The commercial use provides a significant public benefit with respect to the Shoreline Management Act's objectives.

Nonwater-oriented commercial development may be allowed if the site is physically separated from the shoreline by another property or public right of way.

New nonwater-dependent commercial development should be required to protect existing shoreline vegetation contributing to ecological functions. Where shoreline vegetation has been removed or degraded, nonwater-dependent commercial development should contribute to the restoration of ecological functions provided by vegetation.

Nonwater-dependent commercial uses should not be allowed over water except in existing structures or in the limited instances where they are auxiliary to and in support of water-dependent uses and provided the size of the over-water construction is not expanded for nonwater-dependent uses.

New water-dependent commercial development should mitigate impacts to shoreline vegetation according to WAC 173-26-200 (2)(e).

(e) **Forest practices.**

Local master programs should rely on the Forest Practices Act and rules implementing the act and the *Forest and Fish Report*as adequate management of commercial forest uses within shoreline jurisdiction. However, local governments shall, where applicable, apply this chapter to Class IV-General forest practices where shorelines are being converted or are expected to be converted to nonforest uses.

Forest practice conversions and other Class IV-General forest practices where there is a likelihood of conversion to nonforest uses shall avoid significant ecological impacts to the shoreline environment and maintain the ecological quality of the watershed hydrologic system. Master programs shall establish provisions to ensure that all such timber removal is consistent with the master program environment designation provisions and the provisions of this chapter. Applicable shoreline master programs should contain provisions to ensure that when forest lands are converted to another use, including a residential use, significant vegetation removal, grading, and development are not allowed, except for low-intensity uses and public access that protect or restore ecological functions.

Master programs shall implement the provisions of RCW 90.58.150 regarding selective removal of timber harvest on shorelines of statewide significance. Exceptions to this standard shall be by conditional use permit only.

Lands designated as "forest lands" pursuant to RCW 36.70A.170 shall be designated either "natural," "rural conservancy," or equivalent environment designation.

Where forest practices fall within the applicability of the Forest Practices Act, local governments should consult with the department of natural resources, other applicable agencies, and local timber owners and operators.

(f) **Industry.**

Regional and statewide needs for water-dependent and water-related industrial facilities should be carefully considered in establishing master program environment designations, use provisions, and space allocations for industrial uses and supporting facilities.

Industrial development shall not be located in shoreline areas with severe environmental limitations, such as critical areas, unless no other feasible option is available. Industrial development shall not be located, designed, or constructed in a manner that causes significant ecological impacts to the ecological functions. Particular scrutiny shall be given to ecological functions necessary to support priority species.

New industrial development shall incorporate public access to the water except when such access causes significant interference with operations or hazards to life or property, as provided in WAC 173-26-220(4). Industrial development and redevelopment shall, where feasible, incorporate environmental cleanup and restoration of the shoreline area. New nonwater-oriented industrial development—that is, industrial development that is neither water-dependent nor water-related—should only be allowed on shorelines that are not navigable for commercial transport and should include ecological restoration of the shoreline and, where feasible, public access. In such cases, no new structural shoreline stabilization measures should be permitted, except to protect or restore ecological functions or public access.

Additions or modifications to existing nonwater-dependent development may be allowed on shorelines navigable for commercial transport, provided restoration and public access are provided where feasible.

New nonwater-dependent industrial development should be required to protect existing shoreline vegetation contributing to ecological functions. Where shoreline vegetation has been removed or degraded, nonwater-dependent development should contribute to the restoration of ecological functions provided by vegetation consistent with WAC 173-26-220(5). New water-dependent development should mitigate impacts to shoreline vegetation.

Nonwater-oriented industrial uses may be allowed if the site is physically separated from the shoreline by another property or public right of way.

(g) **In-stream structures.**

In-stream structures shall provide for the protection, preservation, and restoration of ecosystem-wide processes, ecological functions, and cultural resources, including, but not limited to, fish and fish passage, wildlife and water resources, shoreline critical areas, hydrogeological processes, and natural scenic vistas. The location and planning of in-stream structures shall give due consideration to the full range of public interests, watershed functions and processes, and environmental concerns, with special emphasis on protecting and restoring priority habitats and species.

(h) **Mining.**

Mining is the removal of sand, gravel, soil, minerals, and other earth materials for commercial and other uses. Mining alters the natural character, resources, and ecology of shorelines of the state and may adversely impact critical shoreline resources. Activities associated with mining, including processing and transportation, also have the potential to adversely impact shoreline resources. Master programs shall include policies and regulations that assure:

(i) Mining and associated activities are not allowed where such uses would result in short-term or long-term significant ecological impacts to shoreline ecological functions or ecosystem-wide processes.

(ii) Where mining and associated activities are allowed, they must be conducted in a manner that is consistent with the policies of the environment designation in which they are located, impacts to fish and wildlife habitat shall be avoided, and all disturbed areas must be restored upon completion of mining. Destruction of critical habitat for priority species is prohibited.

(iii) Surface mining shall be conducted in conformance with the Washington State Surface Mining Reclamation Act, chapter 78.44 RCW.

(iv) Surface mine reclamation plans shall provide for subsequent use of the property that is consistent with the policies of the environment designation in which they are located and shall assure that ecological functions of the shoreline are restored.

(v) Removal of sand and gravel resources from a location waterward of the ordinary high-water mark of a river shall be prohibited unless:

(A) A hydrogeological study, conducted by a qualified professional and approved by appropriate state agencies, demonstrates that removal of specific quantities at specific

locations will not significantly alter the natural processes of gravel transportation for the river system as a whole; and

(B) A biological study, conducted by a qualified professional and approved by appropriate state agencies, demonstrates that removal will not significantly degrade habitat values for priority species or damage other ecological functions.

Removal of sand and gravel from a location waterward of the channel migration zone shall require a conditional use permit.

In locations where gravel removal has been allowed in the past, any future authorization to continue shall be based on studies as required above, and no further authorization shall be granted except in conformance with this provision.

(i) **Recreational development.**

Provision shall be made in master programs for the public to enjoy the waters of the state. Master program provisions should ensure that shoreline recreational facilities, now and in the future, can reasonably tolerate, during peak use periods, a balance of active and passive uses without causing significant ecological impacts.

In accordance with RCW 90.58.100(4), master program provisions shall reflect that state-owned shorelines are particularly adapted to providing wilderness beaches, ecological study areas, and other recreational uses for the public and give appropriate special consideration to the same.

For all jurisdictions planning under the Growth Management Act, master program recreation policies shall be consistent with growth projections and level-of-service standards established by the applicable comprehensive plan. Private recreational development shall not be a substitute for publicly owned, publicly accessible recreational facilities on the shorelines. Recreational development should provide for a spectrum of recreational needs and opportunities. Where possible, shoreline recreational facilities should be linked to other recreational attractions by pedestrian and bicycle trails. Master program recreation provisions shall be consistent with public access and environmental protection provisions of this chapter.

Master program provisions shall give preference to water-dependent recreation as a first priority and water-enjoyment and water-related recreational uses as a second priority. Nonwater-oriented recreational uses should be discouraged on the shoreline and, where allowed, shall include public access and ecological protection and restoration.

The impacts of recreational developments, including water-dependent facilities such as marinas and swimming beaches and nonwater-oriented uses, shall be mitigated. Nonwater-dependent recreational uses shall be located away from the water unless their significant ecological impacts can be avoided.

(j) **Residential development.**

Single-family residences are a priority use when consistent with control of pollution and prevention of damage to the natural environment. However, residential uses can cause significant damage to the shoreline area through cumulative impacts from shoreline bulkheading, storm water runoff, septic system failure, eelgrass damage, introduction of pollutants, and vegetation removal.

Residential development includes single-family and multifamily development and the creation of new residential lots through land division or conversion from another use. Master programs should include shoreline setbacks, density regulations, bulkhead restrictions, vegetation conservation requirements, and, where applicable, on-site sewage system standards for residential uses, including single-family residences and appurtenant structures and uses, in accordance with the provisions of this chapter. Master programs may provide the above standards either by direct language within the master program or by specific reference to the applicable development regulations. New residential development, including appurtenant structures and uses, shall be sufficiently set back from steep slopes and shorelines vulnerable to erosion so that structural improvements, including bluff walls and other stabilization structures, are not required to protect property. (See RCW 90.58.100(6).)

New over-water residences, including floating homes, are not a preferred use and shall be prohibited.

New multiunit residential development, including duplexes, fourplexes, and the subdivision of land for more than four parcels, should provide community and/or public access in conformance to the local government's public access planning and this chapter.

If piers, docks, breakwaters, jetties, groins, and weirs are allowed in residential development, local governments should consult the department technical assistance materials and afford the best possible protection to priority species and shoreline processes.

Local governments should not allow residential development of a scale and location that will cause significant ecological impacts to the ecological functions performed by vegetation. Limit significant vegetation removal to the minimum necessary to accommodate permitted primary residential structures. Where the dimensions of existing legally created lots are not sufficient to accommodate development of a permitted use without significant vegetation removal, apply the mitigation sequence defined in WAC 173-26-020 to address adverse impacts to vegetation.

Master programs shall include standards for the creation of new residential lots, through land division or conversion from another use, that accomplish the following:

(i) Prevent significant vegetation removal, development within the CMZ, and significant ecological impacts. That is, all residential lots resulting from such platting or subdivision must be large enough or configured in a way that a residence may be developed without causing significant ecological impacts to ecological functions. For example, master programs shall prevent the creation of new residential lots that will require structural shoreline stabilization or deviation from vegetation conservation or water quality standards.

When land is converted to residential use from agriculture, forestry, or other less intensive land use, ensure that the resulting lots are sufficient in size and configuration to allow protection of ecological functions or, if vegetation supporting ecological functions has been removed, the restoration of ecological functions.

(ii) Prevent the need for new shoreline stabilization measures that would cause significant ecological impacts.

(iii) Implement the provisions of WAC 173-26-210 and 173-26-220.

(k) **Transportation and parking.**

Establish and implement master program policies and regulations to provide safe, reasonable, and adequate circulation systems to shorelines.

Transportation and parking plans and projects shall be consistent with the master program public access policies, public access plan, and environmental protection provisions.

Circulation system planning to and on shorelands shall include systems for pedestrian, bicycle, and public transportation where appropriate. Circulation planning and projects should support existing and proposed shoreline uses that are consistent with the master program.

Plan, locate, and design proposed transportation and parking facilities where routes will have the least possible adverse effect on unique or fragile shoreline features and existing ecological functions or on existing or future water-dependent uses. Where other options are available and feasible, new roads or road expansions should not be built within shoreline jurisdiction.

Parking facilities in shorelines are not a preferred use and shall be allowed only as necessary to support a preferred use. Shoreline master programs shall include policies and regulations to minimize the environmental and visual impacts of parking facilities.

Restoration of shoreline ecological functions should be a condition of new and expanded nonwater-dependent transportation and parking facilities.

(l) **Utilities.**

These provisions apply to services and facilities that produce, convey, store, or process power, gas, sewage, communications, oil, waste, and the like. On-site utility features serving a primary use, such as a water line to a residence, are "accessory utilities" and shall be considered a part of the allowed use.

All utility facilities shall be designed and located to minimize harm to shoreline functions, preserve the natural landscape, and minimize conflicts with present and planned land and shoreline uses while meeting the needs of future populations in areas planned to accommodate growth.

Utility production and processing facilities, such as power plants and sewage treatment plants, or parts of those facilities, that are nonwater-oriented shall not be allowed in shoreline areas unless it can be demonstrated that no other feasible option is available.

Transmission facilities for the conveyance of services, such as power lines, cables, and pipelines, shall be located to cause minimum harm to the shoreline and shall be located outside of the shoreline area where feasible. Utilities should be located in existing rights of way and corridors whenever possible.

Development of pipelines and cables on tidelands, particularly those running roughly parallel to the shoreline, and development of facilities that may require periodic maintenance or that cause significant ecological impacts should be discouraged except where no other feasible alternative exists. When permitted, those facilities should include adequate provisions to protect against significant ecological impacts.

[Statutory Authority: RCW 90.58.060 and 90.58.200. 00-24-031 (Order 95-17a), § 173-26-240, filed 11/29/00, effective 12/30/00.]

WAC 173-26-250 Shorelines of statewide significance. (1) **Applicability.**

The following section applies to local governments preparing master programs that include shorelines of statewide significance as defined in RCW 90.58.030.

(2) **Principles.**

Chapter 90.58 RCW raises the status of shorelines of statewide significance in two ways. First, the Shoreline Management Act sets specific preferences for uses of shorelines of statewide significance. RCW 90.58.020 states:

The legislature declares that the interest of all of the people shall be paramount in the management of shorelines of statewide significance. The department, in adopting guidelines for shorelines of statewide significance, and local government, in developing master programs for shorelines of statewide significance, shall give preference to uses in the following order of preference which:

(1) Recognize and protect the statewide interest over local interest;

(2) Preserve the natural character of the shoreline;

(3) Result in long term over short term benefit;

(4) Protect the resources and ecology of the shoreline;

(5) Increase public access to publicly owned areas of the shorelines;

(6) Increase recreational opportunities for the public in the shoreline;

(7) Provide for any other element as defined in RCW 90.58.100 deemed appropriate or necessary.

Second, the Shoreline Management Act calls for a higher level of effort in implementing its objectives on shorelines of statewide significance. RCW 90.58.090(4) states:

The department shall approve those segments of the master program relating to shorelines of statewide significance only after determining the program provides the optimum implementation of the policy of this chapter to satisfy the statewide interest.

Optimum implementation involves special emphasis on statewide objectives and consultation with state agencies. The state's interests may vary, depending upon the geographic region, type of shoreline, and local conditions. Optimum implementation may involve ensuring that other comprehensive planning policies and regulations support Shoreline Management Act objectives.

Because shoreline ecological resources are linked to other environments, implementation of ecological objectives requires effective management of whole ecosystems. Optimum implementation places a greater imperative on identifying, understanding, and managing ecosystem-wide processes and ecological functions that sustain resources of statewide importance.

(3) **Master program provisions for shorelines of statewide significance.**

Because shorelines of statewide significance are major resources from which all people of the state derive benefit, local governments that are preparing master program provi-

sions for shorelines of statewide significance shall implement the following:

(a) **Statewide interest.**

To recognize and protect statewide interest over local interest, consult with applicable state agencies, affected Indian tribes, and statewide interest groups and consider their recommendations in preparing shoreline master program provisions. Recognize and take into account state agencies' policies, programs, and recommendations in developing use regulations. For example, if an anadromous fish species is affected, the Washington state departments of fish and wildlife and ecology and the governor's salmon recovery office, as well as affected Indian tribes, should, at a minimum, be consulted.

(b) **Preserving resources for future generations.**

Prepare master program provisions on the basis of preserving the shorelines for future generations. For example, actions that would convert resources into irreversible uses or detrimentally alter natural conditions characteristic of shorelines of statewide significance should be severely limited. Where natural resources of statewide importance are being diminished over time, master programs shall include provisions to contribute to the restoration of those resources.

(c) **Priority uses.**

Establish shoreline environment designation policies, boundaries, and use provisions that give preference to those uses described in RCW 90.58.020 (1) through (7). More specifically:

(i) Identify the extent and importance of ecological resources of statewide importance and potential impacts to those resources, both inside and outside the local government's geographic jurisdiction.

(ii) Preserve sufficient shorelands and submerged lands to accommodate current and projected demand for economic resources of statewide importance, such as commercial shellfish beds and navigable harbors. Base projections on statewide or regional analyses, requirements for essential public facilities, and comment from related industry associations, affected Indian tribes, and state agencies.

(iii) Base public access and recreation requirements on demand projections that take into account the activities of state agencies and the interests of the citizens of the state to visit public shorelines with special scenic qualities or cultural or recreational opportunities.

(d) **Resources of statewide importance.**

Establish development standards that:

(i) Ensure the long-term protection and restoration of ecological resources of statewide importance, such as anadromous fish habitats, forage fish spawning and rearing areas, shellfish beds, and unique environments. Standards shall consider incremental and cumulative impacts of permitted development and include provisions to improve the functions of shoreline ecosystems as a whole.

(ii) Provide for the shoreline needs of water-oriented uses and other shoreline economic resources of statewide importance.

(iii) Provide for the right of the public to use, access, and enjoy public shoreline resources of statewide importance.

(e) **Comprehensive plan consistency.**

Assure that other local comprehensive plan provisions are consistent with and support as a high priority the policies for shorelines of statewide significance. Specifically, shoreline master programs should include policies that incorporate the priorities and optimum implementation directives of chapter 90.58 RCW into comprehensive plan provisions and implementing development regulations.

[Statutory Authority: RCW 90.58.060 and 90.58.200. 00-24-031 (Order 95-17a), § 173-26-250, filed 11/29/00, effective 12/30/00.]

PART IV
GUIDELINES—OPTIONAL APPROACH

WAC 173-26-270 Purpose of Part IV. (1) Objectives.

WAC 173-26-270 through 173-26-350 are adopted pursuant to chapter 90.58 RCW, the Shoreline Management Act of 1971, to serve as standards for implementation of the policy of the act for regulation of uses of the shorelines; and provide criteria to local governments and the department in developing and amending master programs. The purposes of Part IV are to: (Text in quotations is excerpted from RCW 90.58.020.)

(a) **Protect against adverse impacts.**

"Protect against adverse effects to the public health, the land and its vegetation and wildlife, and the waters of the state and their aquatic life..."

Provide measures for the utilization, protection, restoration, and preservation of the state shorelines, which are "among the state's most valuable and fragile of its natural resources."

Prepare standards governing the protection of single-family residences and appurtenant structures from shoreline erosion, giving preference to measures to protect single-family residences occupied before January 1, 1992, where the proposed measure is designed to minimize harm to the shoreline natural environment. (See RCW 90.58.100(6).)

Undertake a "planned, rational, and concerted effort, jointly performed by federal, state and local governments, to prevent the inherent harm in an uncoordinated and piecemeal development of the state's shorelines."

(b) **Protect the public's right to use and access the surface waters of the state.**

"Insure the development of shorelines of the state in a manner which, while allowing limited reduction of rights of the public in the navigable waters, will promote and enhance the public interest."

"Protect generally public rights of navigation and corollary rights incidental thereto."

Preserve "the public's opportunity to enjoy the physical and aesthetic qualities of natural shorelines of the state to the greatest extent feasible consistent with the overall best interest of the state and the people generally."

Regulate the design, construction, and operation of "permitted uses in the shorelines of the state to minimize, insofar as practical, any interference with the public's use of the water."

(c) **Foster reasonable and appropriate uses that are in the public's best interest.**

Give preference to uses "which are consistent with control of pollution and prevention of damage to the natural environment, or are unique to or dependent upon use of the state's shoreline." Alterations to the natural conditions of the shorelines of the state, in those limited instances when authorized, shall be given priority for:

(i) "Single-family residences and their appurtenant structures;

(ii) Ports; shoreline recreational uses, including, but not limited to, parks, marinas, piers, and other improvements facilitating public access to the shorelines of the state;

(iii) Industrial and commercial developments which are particularly dependent on their location on or use of the shorelines of the state; and

(iv) Other development that will provide an opportunity for substantial numbers of the people to enjoy the shorelines of the state."

The previous list is in no particular order of priority.

Conduct the "coordinated planning necessary to protect the public's interest associated with the shorelines of the state while, at the same time, recognizing and protecting private property rights consistent with the public interest." Ensure equal treatment and fairness to all parties with respect to the use of shoreline resources.

"Appropriately classify the shorelines and shorelands of the state and revise these classifications when circumstances warrant regardless of whether the change in the circumstances occurs through man-made causes or natural causes."

Reflect that state-owned shorelines of the state are particularly adapted to providing wilderness beaches, ecological study areas, and other recreational uses for the public and give appropriate special consideration to same. (See RCW 90.58.100(4).)

(d) **Protection and restoration of ecological functions.**

This chapter captures the resource protection and restoration policy of RCW 90.58.020 within the concept of protection and restoration of ecological functions. The relative state of ecological functions in a species' range or habitat has a dramatic effect on the general health of the state's native vegetation, wildlife, and fish. While some native species in our region remain vigorous, others have declined over the years. In recent years numerous species of aquatic and terrestrial life which live in or near the shoreline have seen dramatic declines in population. A number of these species, including several species of salmonids, have declined to such an extent that they have been listed as threatened or endangered under the federal Endangered Species Act (ESA), 16 U.S.C. 1533, or by the Washington state department of fish and wildlife pursuant to RCW 77.12.020. Declines dramatic enough to warrant listing under the ESA or RCW 77.12.020 signify a failure to adequately protect against adverse effects to such species. The listing of such species indicates that particular attention should be paid to the species and their habitat in order to fulfill the act's policy of protecting against adverse effects to the land and its vegetation and wildlife, and the waters of the state and their aquatic life.

Part IV of this chapter provides a specific approach to addressing this important policy of the act.

(2) **Responsibilities of state and local governments.**

RCW 90.58.050 gives local governments the responsibility of initiating the planning required by the Shoreline Management Act and administering the regulatory program consistent with its policy and provisions. Nothing in this chapter is intended to reduce the opportunity for local governments to pursue local shoreline management objectives, provided they are consistent with the policies of the act and this chapter.

In 1995, the Washington state legislature passed Engrossed Substitute House Bill 1724, an act relating to implementing the recommendations of the governor's task force on regulatory reform on integrating growth management planning and environmental review. The bill amended, among other statutes, the Growth Management Act, chapter 36.70A RCW; the Shoreline Management Act, chapter 90.58 RCW; and the State Environmental Policy Act, chapter 43.21C RCW. Section 304 of Engrossed Substitute House Bill 1724 amended RCW 90.58.060(1) to read:

(1) The department shall periodically review and adopt guidelines consistent with RCW 90.58.020, containing the elements specified in RCW 90.58.100 for:

(a) Development of master programs for regulation of the uses of shorelines; and

(b) Development of master programs for regulation of the uses of shorelines of statewide significance.

These guidelines implement the directive to integrate referenced statutes. Specifically, the guidelines are directed toward more efficient planning, permitting, and environmental review and more effective resource management.

[Statutory Authority: RCW 90.58.060 and 90.58.200. 00-24-031 (Order 95-17a), § 173-26-270, filed 11/29/00, effective 12/30/00.]

WAC 173-26-280 Applicability of Part IV. WAC 173-26-270 through 173-26-350 apply to actions taken in the preparation, amendment, and review of local shoreline master programs pursuant to RCW 90.58.060(1). The master programs prepared or amended pursuant to this chapter, when adopted or approved by the department, shall constitute use regulations for the shorelines of the state.

[Statutory Authority: RCW 90.58.060 and 90.58.200. 00-24-031 (Order 95-17a), § 173-26-280, filed 11/29/00, effective 12/30/00.]

WAC 173-26-290 Master program contents. (1) **Master program concepts.**

The following concepts are the basis for effective shoreline master programs.

(a) **Master program policies and regulations.**

Shoreline master programs are both planning and regulatory tools. RCW 90.58.020 establishes the need for both planning and regulatory action.

The legislature further finds that much of the shorelines of the state and the uplands adjacent thereto are in private ownership; that unrestricted construction on the privately owned or publicly owned shorelines of the state is not in the best public interest; and therefore, coordinated planning is necessary in order to protect the public interest associated with the shorelines of the state while, at the same time, recognizing and protecting private property rights consistent with the public interest. There is, therefor, a clear and urgent

demand for a planned, rational, and concerted effort, jointly performed by federal, state, and local governments, to prevent the inherent harm in an uncoordinated and piecemeal development of the state's shorelines.

The act expresses this dual function in RCW 90.58.030 (3)(b):

"Master program" shall mean the comprehensive use plan for a described area and the use regulations, together with maps, diagrams, charts, or other descriptive material and text, a statement of desired goals, and standards developed in accordance with the policies enunciated in RCW 90.58.020.

Master programs serve a planning function in several ways. First, they balance and integrate the objectives and interests of local citizens. Therefore, the preparation and amending of master programs shall involve active public participation, as called for in WAC 173-26-300(3). Second, they address the full variety of conditions on the shoreline. Third, they consider and, where necessary to achieve the objectives of chapter 90.58 RCW, influence planning and regulatory measures for adjacent land. For jurisdictions planning under chapter 36.70A RCW, the Growth Management Act, the requirements for integration of shoreline and adjacent land planning are more specific and are described in WAC 173-26-290 (2)(a). Fourth, master programs address conditions and opportunities of specific shoreline segments by classifying the shorelines into "environment designations" as described in WAC 173-26-310.

The results of shoreline planning are summarized in shoreline master program policies that establish broad shoreline management directives. The policies are the basis for regulations that govern use and development along the shoreline. Some development requires a shoreline permit prior to construction. A local government evaluates a permit application with respect to the shoreline master program policies and regulations and issues a permit only after determining that the development conforms to them. The regulations apply to all uses and development within shoreline jurisdiction, whether or not a shoreline permit is required and are implemented through other permitting and regulation activities of the local government. See RCW 90.58.140.

(b) **Master program elements.**

RCW 90.58.100(2) states that the master programs shall, when appropriate, include the following elements:

(a) An economic development element for the location and design of industries, industrial projects of statewide significance, transportation facilities, port facilities, tourist facilities, commerce, and other developments that are particularly dependent on their location on or use of shorelines of the state;

(b) A public access element making provision for public access to publicly owned areas;

(c) A recreational element for the preservation and enlargement of recreational opportunities, including, but not limited to, parks, tidelands, beaches, and recreational areas;

(d) A circulation element consisting of the general location and extent of existing and proposed major thoroughfares, transportation routes, terminals, and other public utilities and facilities, all correlated with the shoreline use element;

(e) A use element which considers the proposed general distribution and general location and extent of the use on shorelines and adjacent land areas for housing, business, industry, transportation, agriculture, natural resources, recreation, education, public buildings and grounds, and other categories of public and private uses of the land;

(f) A conservation element for the preservation of natural resources, including, but not limited to, scenic vistas, aesthetics, and vital estuarine areas for fisheries and wildlife protection;

(g) An historic, cultural, scientific, and educational element for the protection and restoration of buildings, sites, and areas having historic, cultural, scientific, or educational values;

(h) An element that gives consideration to the statewide interest in the prevention and minimization of flood damages; and

(i) Any other element deemed appropriate or necessary to effectuate the policy of this chapter.

The Growth Management Act (chapter 36.70A RCW) also uses the word "element" for discrete sections or chapters of a comprehensive plan. To avoid confusion, "master program element" refers to the definition in the Shoreline Management Act. Local jurisdictions are not required to address the master program elements listed in the Shoreline Management Act as discrete sections. The elements may be addressed throughout master program provisions rather than used as a means to organize the master program.

(c) **Shorelines of statewide significance.**

The Shoreline Management Act identifies certain shorelines as "shorelines of statewide significance" and raises their status by setting use priorities and requiring "optimum implementation" of the act's policy. WAC 173-26-350 describes methods to provide for the priorities listed in RCW 90.58.020 and to achieve "optimum implementation" as called for in RCW 90.58.090(4).

(d) **Shoreline environment designations.**

Shoreline management must address a wide range of physical conditions and development settings along shoreline areas. Effective shoreline management requires that the shoreline master program prescribe different sets of environmental protection measures, allowable use provisions, and development standards for each of these shoreline segments.

The method for local government to account for different shoreline conditions is to assign an environment designation to each distinct shoreline section in its jurisdiction. The environment designation assignments provide the framework for implementing shoreline policies and regulatory measures specific to the environment designation. WAC 173-26-310 presents guidelines for environment designations in greater detail.

(2) **Basic requirements.**

Part IV of this chapter describes the basic components and content required in a master program. As indicated in WAC 173-26-020, for this chapter, the terms "shall," "must," and "are required" and the imperative voice mean a mandate; the action must be done. As noted in WAC 173-26-020, the

term "should" means that the particular action is required unless there is a demonstrated, compelling reason, based on a policy of the Shoreline Management Act and this chapter, against taking the action. The term "may" indicates that the action is acceptable, provided it satisfies all other provisions in this chapter. A master program as submitted to the department for approval shall be sufficient and complete to implement the Shoreline Management Act and the provisions of this chapter. A master program shall contain all of the policies and regulations necessary for the department and other reviewers to evaluate shoreline permits for conformance to the Shoreline Management Act and this chapter.

(a) **Consistency with comprehensive planning and other development regulations.**

Shoreline management is most effective when accomplished within the context of comprehensive planning. For cities and counties planning under the Growth Management Act, chapter 36.70A RCW requires mutual and internal consistency between the comprehensive plan elements and implementing development regulations (including master programs). The requirement for consistency is amplified in WAC 365-195-500:

Each comprehensive plan shall be an internally consistent document and all elements shall be consistent with the future land use map. This means that each part of the plan should be integrated with all other parts and that all should be capable of implementation together. Internal consistency involves at least two aspects:

(1) Ability of physical aspects of the plan to coexist on the available land.

(2) Ability of the plan to provide that adequate public facilities are available when the impacts of development occur (concurrency).

Each plan should provide mechanisms for ongoing review of its implementation and adjustment of its terms whenever internal conflicts become apparent.

The Growth Management Act also calls for coordination between local jurisdictions. RCW 36.70A.100 states:

...The comprehensive plan of each county or city that is adopted pursuant to RCW 36.70A.040 shall be coordinated with, and consistent with, the comprehensive plans adopted pursuant to chapter 36.70A RCW of other counties or cities with which the county or city has, in part, common borders or related regional issues.

This statutory provision complements watershed-wide or regional planning described in WAC 173-26-300.

Furthermore, legislative findings provided in Engrossed Substitute House Bill 1724, section 1, chapter 347, Laws of 1995 states:

The legislature recognizes by this act that the Growth Management Act is a fundamental building block of regulatory reform. The state and local governments have invested considerable resources in an act that should serve as the integrating framework for all other land-use related laws. The Growth Management Act provides the means to effectively combine certainty for development decisions, reasonable environmental protection, long-range planning for cost-effective infrastructure, and orderly growth and development.

Engrossed Substitute House Bill 1724 also added RCW 36.70A.480(1) to the Growth Management Act, which states:

For shorelines of the state, the goals and policies of the Shoreline Management Act as set forth in RCW 90.58.020 are added as one of the goals of this chapter as set forth in RCW 36.70A.020. The goals and policies of a shoreline master program for a county or city approved under chapter 90.58 RCW shall be considered an element of the county or city's comprehensive plan. All other portions of the shoreline master program for a county or city adopted under chapter 90.58 RCW, including use regulations, shall be considered a part of the county or city's development regulations.

Furthermore, RCW 36.70A.481 states:

Nothing in RCW 36.70A.480 shall be construed to authorize a county or city to adopt regulations applicable to shorelands as defined in RCW 90.58.030 that are inconsistent with the provisions of chapter 90.58 RCW.

The Shoreline Management Act addresses the issue of consistency in RCW 90.58.340, which states:

All state agencies, counties, and public and municipal corporations shall review administrative and management policies, regulations, plans, and ordinances relative to lands under their respective jurisdictions adjacent to the shorelines of the state so as to achieve a use policy on said land consistent with the policy of this chapter, the guidelines, and the master programs for the shorelines of the state. The department may develop recommendations for land use control for such lands. Local governments shall, in developing use regulations for such areas, take into consideration any recommendations developed by the department as well as any other state agencies or units of local government (1971 ex.s. c 286 § 34.)

Pursuant to the statutes cited above, the intent of these guidelines is to assist local governments in preparing and amending master programs that fit within the framework of applicable comprehensive plans, facilitate consistent, efficient environmental review, effectively implement the Shoreline Management Act, and address PFC requirements for T&E species.

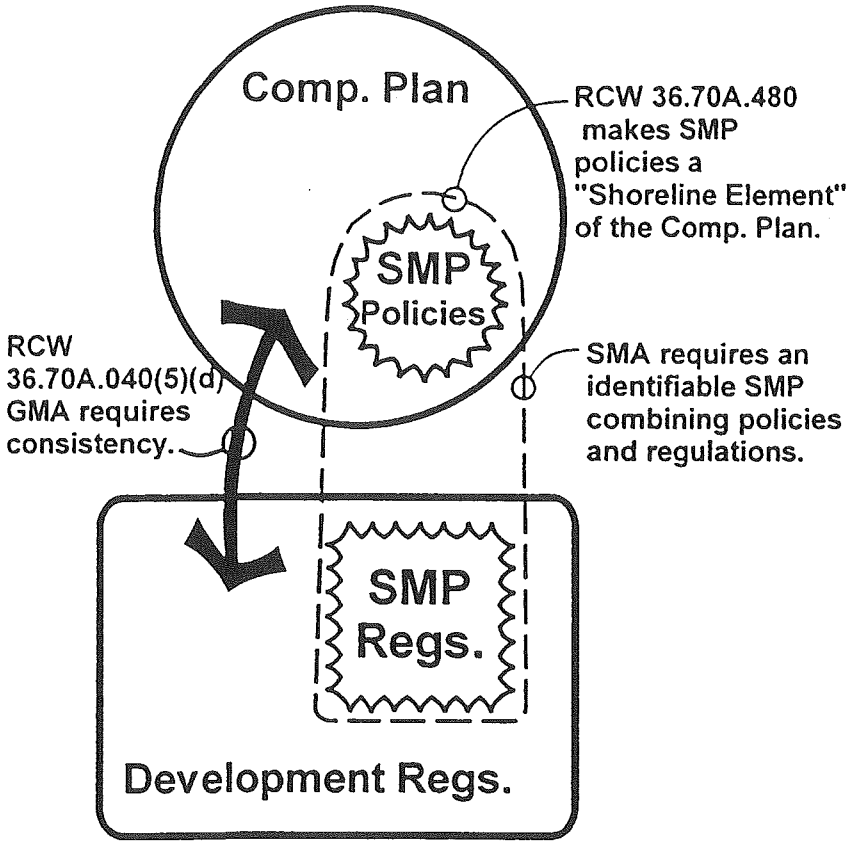

Figure 1. Relationship of master program to comprehensive plan and local development regulations for governments planing under RCW 36.70A.
(This is for illustration purposes only and does not supplement or add to the language in the chapter text.)

Several sections in these guidelines include methods to achieve the consistency required by both the Shoreline Management Act and the Growth Management Act.

First, WAC 173-26-290 (2)(b) and (c) describe optional methods to integrate master programs and other development regulations and the local comprehensive plan.

Second, WAC 173-26-320 through 173-26-350 translate the broad objectives in the Shoreline Management Act into more specific policies. They also provide a more defined policy basis on which to frame local shoreline master program provisions and to evaluate the consistency of applicable sections of a local comprehensive plan with the Shoreline Management Act.

Finally, WAC 173-26-310(3) presents specific methods for testing consistency between shoreline environment designations and comprehensive plan land use designations.

(b) **Including other documents in a master program by reference.**

Shoreline master program provisions sometimes address similar issues as other comprehensive plan elements and development regulations, such as the zoning code and critical area ordinance. For the purposes of completeness and consistency, local governments may include other locally adopted policies and regulations within their master programs. For example, a local government may include specific portions of its critical area ordinance in the master program, provided the critical area ordinance is consistent with this chapter. This can ensure that local master programs are consistent with other regulations.

Shoreline master programs may include other policies and regulations by referencing a specific, dated edition. When including referenced regulations within a master program, local governments shall ensure that the public has an opportunity to participate in the formulation of the regulations or in their incorporation into the master program, as called for in WAC 173-26-300 (3)(b)(i). In the approval process, the department will review the referenced development regulation sections as part of the master program. A copy of the referenced regulations shall be submitted to the department with the proposed master program or amendment. If the development regulation is amended, the edition referenced within the master program will still be the operative regulation in the master program. Changing the referenced regulations in the master program to the new edition will require a master program amendment.

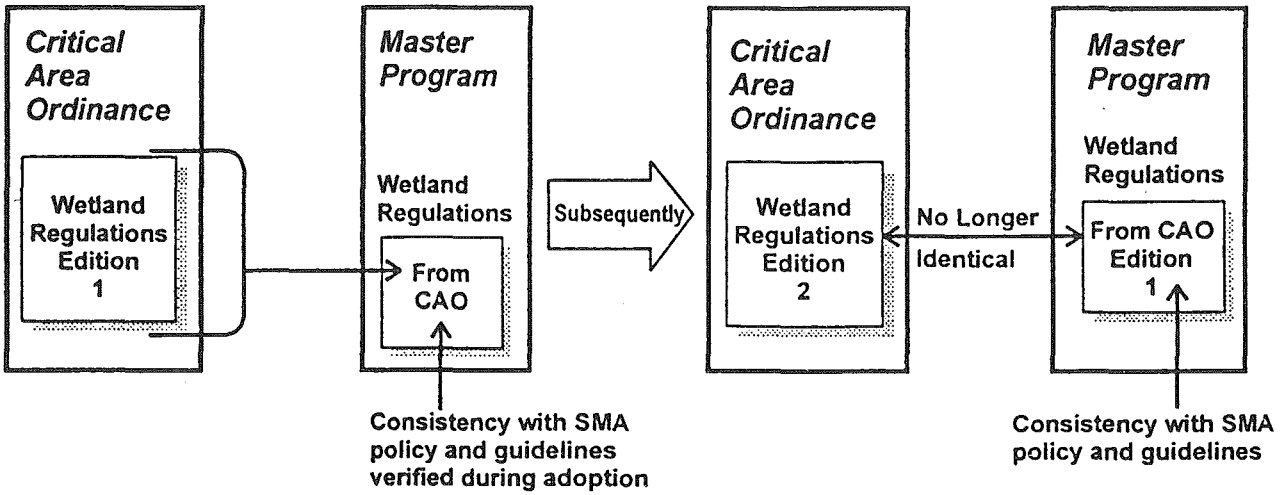

Figure 2. Optional method to incorporate other development regulations into a master programs by reference. (Note: If the referenced critical area ordinance is changed, the CAO provisions in the SMP are not automatically amended.).
(This is for illustration purposes only and does not supplement or add to the language in the chapter text.)

(c) **Incorporating master program provisions into other plans and regulations.**

Local governments may integrate master program policies and regulations into their comprehensive plan policies and implementing development regulations rather than preparing a discrete master program in a single document. Master program provisions that are integrated into such plans and development regulations shall be clearly identified so that the department can review these provisions for approval and evaluate development proposals for compliance. RCW 90.58.120 requires that all adopted regulations, designations, and master programs be available for public inspection at the department or the applicable county or city. Local governments shall identify all documents which contain master program provisions and which provisions constitute part of the master program. Clear identification of master program provisions is also necessary so that interested persons and entities may be involved in master program preparation and amendment, as called for in RCW 90.58.130.

Local governments integrating all or portions of their master program provisions into other plans and regulations shall submit to the department a listing and copies of all provisions that constitute the master program. The master program shall also be sufficiently complete and defined to provide:

(i) Clear directions to applicants applying for shoreline permits and exemptions; and

(ii) Clear evaluation criteria and standards to the local governments, the department, other agencies, and the public for reviewing permit applications with respect to state and local shoreline management provisions.

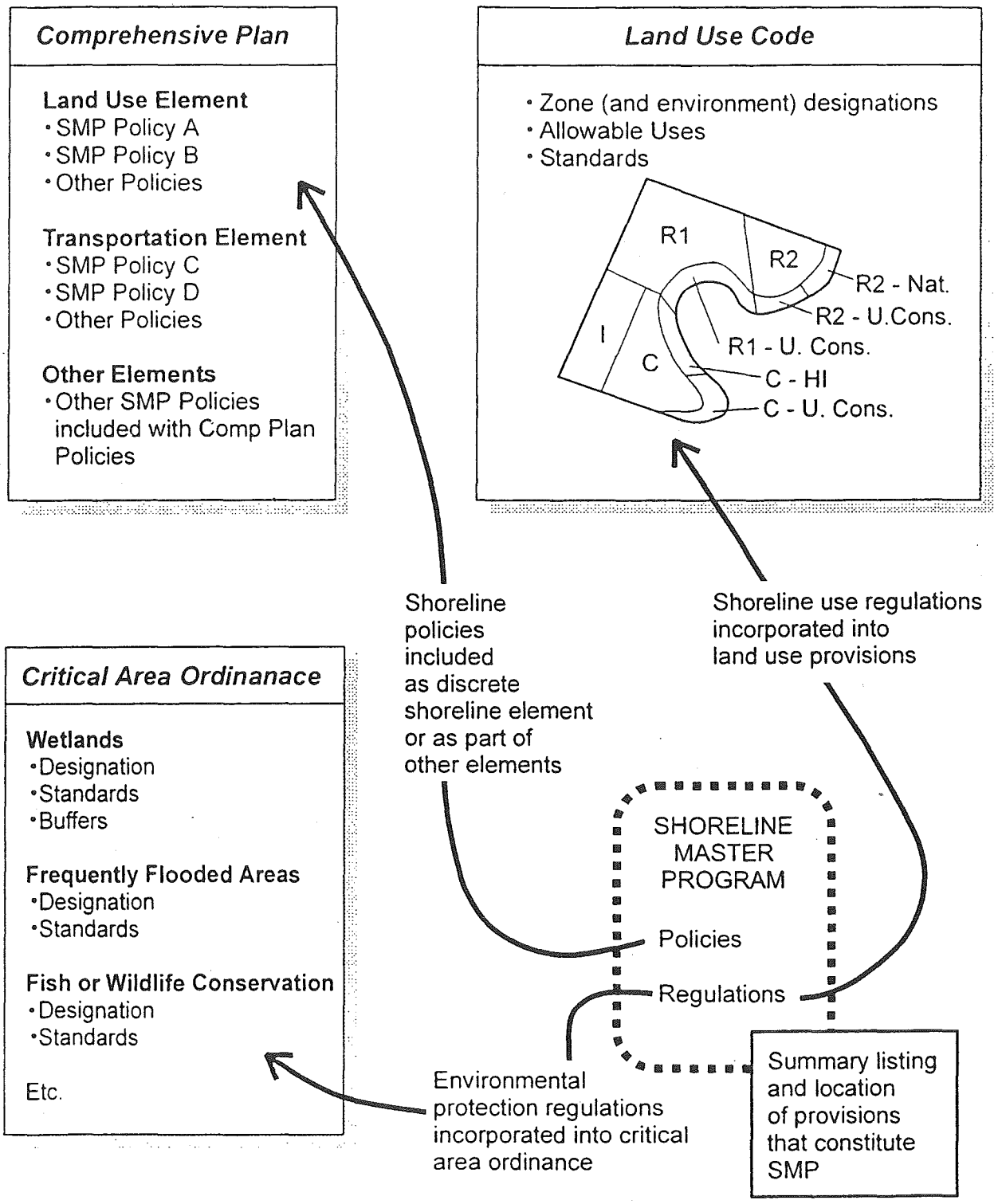

Figure 3. Method to incorporate master program provisions into a comprehensive plan and local development regulations. (Note: All master program provisions must be clearly identified as such.)
(This is for illustration purposes only and does not supplement or add to the language in the chapter text.)

(d) **Multijurisdictional master program.**

Two or more adjacent local governments are encouraged to jointly prepare master programs. Jointly proposed master programs may offer opportunities to effectively and efficiently manage natural resources, such as drift cells or watersheds, that cross jurisdictional boundaries. Local governments jointly preparing master programs shall provide the opportunity for public participation locally in each jurisdiction, as called for in WAC 173-26-300 (3)(b), and submit the multijurisdictional master program to the department for approval.

(e) **Master program contents.**

Master programs shall include the following contents described in (e)(i) through (iii) of this subsection.

(i) **Master program policies.**

Master programs shall provide clear, consistent policies that translate broad statewide objectives of this chapter into local directives. Policies are statements of intent directing or authorizing a course of action or specifying criteria on which to make a public decision. They provide a comprehensive basis for the shoreline master program regulations, which generally are more specific, prescriptive standards used to evaluate shoreline development.

Shoreline policies shall be developed through a comprehensive shoreline planning process allowing for public and affected Indian tribes participation. For governments planning under the Growth Management Act, the master program policies are considered a shoreline element of the local comprehensive plan and shall also be consistent with the planning goals of RCW 36.70A.020.

At a minimum, shoreline master program policies shall:

(A) Be consistent with state shoreline management policies listed in this chapter and the objectives of the Shoreline Management Act;

(B) Address the master program elements of RCW 90.58.020;

(C) Include policies for environment designations as described in WAC 173-26-310. The policies shall be accompanied by a map or physical description of the schematic environment designation boundaries in sufficient detail to compare with comprehensive plan land use designations; and

(D) Be consistent with protection and restoration requirements for T&E species.

(ii) **Master program regulations.**

RCW 90.58.100 states:

The master programs provided for in this chapter, when adopted or approved by the department, shall constitute use regulations for the various shorelines of the state.

In order to implement the directives of the Shoreline Management Act, master program regulations shall:

(A) Be sufficient in scope and detail to ensure the implementation of the Shoreline Management Act, statewide shoreline management policies of this chapter, and local master program policies;

(B) Include environment designation regulations that apply to specific environments consistent with WAC 173-26-310; and

(C) Include general regulations, use regulations that address issues of concern to specific uses, and shoreline modification regulations that protect shoreline ecological functions from the effects of human-made modifications to the shoreline.

To comply with Part IV of chapter 173-26 WAC, regulations shall also be consistent with the properly functioning condition requirements for T&E species.

(iii) **Administrative provisions.**

(A) **Statement of applicability.**

The Shoreline Management Act's provisions apply to all development and uses within its jurisdiction, whether or not a shoreline permit is required. Many activities that may not require a substantial development permit, such as clearing vegetation or construction of a residential bulkhead, can cause serious damage to adjacent properties, natural resources, and lands held in public trust. Local governments have the authority and responsibility to condition a project even though it is exempt from the requirement for a substantial development permit. There has been, historically, some public confusion regarding the Shoreline Management Act's applicability. Therefore, all master programs shall include the following statement:

"All uses and development occurring within shoreline jurisdiction must conform to chapter 90.58 RCW, the Shoreline Management Act, and this master program."

(B) **Conditional use and variance provisions.**

RCW 90.58.100(5) states:

Each master program shall contain provisions to allow for the varying of the application of use regulations of the program, including provisions for permits for conditional uses and variances, to insure that strict implementation of a program will not create unnecessary hardships or thwart the policy enumerated in RCW 90.58.020. Any such varying shall be allowed only if extraordinary circumstances are shown and the public interest suffers no substantial detrimental effect. The concept of this subsection shall be incorporated in the rules adopted by the department relating to the establishment of a permit system as provided in RCW 90.58.140(3).

All master programs shall include standards for reviewing conditional use permits and variances which conform to chapter 173-27 WAC.

(C) **Administrative permit review and enforcement procedures.**

RCW 90.58.140(3) states:

The local government shall establish a program, consistent with rules adopted by the department, for the administration and enforcement of the permit system provided in this section. The administration of the system so established shall be performed exclusively by the local government.

Local governments may, but are not required to, include administrative, enforcement, and permit review procedures into the master program. These procedures shall conform to the Shoreline Management Act, specifically RCW 90.58.140, and to chapter 173-27 WAC. However, the procedures may be defined by a local government ordinance separate from the master program.

Adopting review and enforcement procedures separate from the master program allows local governments greater flexibility in revising their shoreline permit review procedures and integrating them with other permit processing activities.

However, master programs shall include a mechanism, such as a letter of exemption, to ensure that all development, including development exempted from a substantial development permit, meets the conditions of the permit or letter of exemption, the applicable master program, and the Shoreline Management Act. See WAC 173-26-300 (2)(g).

Local governments, in conjunction with state agencies, must provide enforcement mechanisms needed to assure that development within shoreline jurisdiction will incorporate PFC requirements for T&E species.

(D) **Documentation of project review actions and changing conditions in shoreline areas.**

Master programs shall include a mechanism for documenting project review actions and evaluating their cumulative effects on shoreline conditions. See WAC 173-26-300 (2)(b) and (3)(h). This process could involve a joint effort by local governments, state resource agencies, affected Indian tribes, and other parties.

[Statutory Authority: RCW 90.58.060 and 90.58.200. 00-24-031 (Order 95-17a), § 173-26-290, filed 11/29/00, effective 12/30/00.]

WAC 173-26-300 Comprehensive process to prepare or amend shoreline master programs. (1) **Applicability.**

This section outlines a comprehensive process to prepare or amend a shoreline master program. Local governments shall incorporate the steps indicated if one or more of the following criteria apply:

(a) The master program amendments being considered represent a significant modification to shoreline management practices within the local jurisdiction, they modify more than one environment designation boundary, or significantly add, change or delete use regulations;

(b) Physical shoreline conditions have changed significantly, such as substantial changes in shoreline use or priority habitat integrity, since the last comprehensive master program amendment;

(c) The master program amendments being considered contain provisions that will affect a substantial portion of the local government's shoreline areas;

(d) There are substantive issues, such as priority species recovery or water resource management, that must be addressed on a comprehensive basis;

(e) The current master program and the comprehensive plan are not mutually consistent;

(f) There has been no previous comprehensive master program amendment since the original master program adoption; or

(g) Monitoring and adaptive management indicate that changes are necessary to avoid loss of ecological functions.

If a local jurisdiction has undertaken a recent comprehensive update of the master program but seeks to make minor revisions, such as an adjustment to a single environment designation boundary, to bring the master program into compliance with these guidelines or other state requirements, these modifications may be made without undertaking a fully comprehensive process.

All master program amendments, even amendments that do not fit within the criteria above, are subject to approval by the department.

(2) **Basic concepts and principles.**

(a) **Use of scientific and technical information.**

RCW 90.58.100(1) states:

In preparing the master programs and any amendments thereto, the department and local governments shall, to the extent feasible:

(a) Utilize a systematic interdisciplinary approach which will ensure the integrated use of the natural and social sciences and the environmental design arts;

(b) Consult with and obtain the comments of any federal, state, regional, or local agency having any special expertise with respect to any environmental impact;

(c) Consider all plans, studies, surveys, inventories, and systems of classification made or being made by federal, state, regional, or local agencies, by private individuals, or by organizations dealing with pertinent shorelines of the state;

(d) Conduct or support such further research, studies, surveys, and interviews as are deemed necessary;

(e) Utilize all available information regarding hydrology, geography, topography, ecology, economics, and other pertinent data;

(f) Employ, when feasible, all appropriate modern scientific data processing and computer techniques to store, index, analyze, and manage the information gathered.

To address the requirements for the use of scientific and technical information, local governments shall incorporate the following two steps into their master program development and amendment process.

First, identify and assemble the most current, accurate, and complete scientific and technical information available that is applicable to the issues of concern. The context, scope, magnitude, significance, and potential limitations of the scientific information should be considered. At a minimum, make use of and, where applicable, incorporate all available scientific information, aerial photography, inventory data, technical assistance materials, manuals and services from reliable sources of science. Local governments should also contact relevant state agencies, universities, and affected Indian tribes for available information. If local governments initiate scientific research as a basis for master program provisions, that research shall use accepted scientific methods and research procedures and be subject to peer review. Local governments are encouraged to work interactively with neighboring jurisdictions, state resource agencies and affected Indian tribes to address technical issues beyond the scope of existing information resources or locally initiated research.

In addition, local governments shall identify all shoreline areas which provide habitats that support T&E species.

Local governments should consult with the technical assistance materials produced by the department. Unless there is more current or specific information available, those technical assistance materials shall constitute an element of scientific and technical information as defined in these guidelines.

Second, base master program provisions on an analysis incorporating the most current, accurate, and complete scientific or technical information available. Local governments shall be prepared to identify the following:

(i) Scientific information and management recommendations on which the master program provisions are based;

(ii) Assumptions and data gaps in the scientific information; and

(iii) Risks to ecological functions associated with master program provisions. Address potential risks as described in WAC 173-26-300 (3)(g).

The requirement to use scientific and technical information in these guidelines does not limit a local jurisdiction's authority to solicit and incorporate information, experience, and anecdotal evidence provided by interested parties as part of the master program amendment process. Such information should be solicited through the public participation process described in WAC 173-26-300 (3)(b). Where information collected by or provided to local governments conflicts or is inconsistent, the local government shall base master program provisions on a reasoned, objective evaluation of the relative merits of the conflicting data. In such instances, particular consideration shall be given to protecting T&E species.

(b) **Monitoring and adaptive management.**

The protection and restoration of PFC for T&E and priority species and overall protection of ecological functions requires making decisions based on an ecosystem perspective. Recognizing the complexity of ecosystems and the degree of uncertainty about the outcomes of many management actions, effective shoreline management will require a process of adaptive learning and change. To achieve and effectively maintain PFC, the state and local government shoreline policies and regulations shall have and implement adaptive management strategies that clearly identify existing and desired future conditions, measurable performance criteria, procedures and schedules to monitor progress toward performance criteria, management options, specific thresholds for changes, and applicable management responses. Priorities for monitoring specific performance criteria should be tied to the degree of uncertainty for effectiveness of measures. Actions with a high degree of effectiveness or low risk to PFC and ecological functions should be low priority for monitoring and adaptive management.

(i) Responsive adaptive management requires a cooperative effort on the part of local governments, the department, other resource agencies and affected Indian tribes. As part of the master program amendment process, local governments shall conduct the following adaptive management activities:

(A) Obtain base line inventory information as described in WAC 173-26-300 (3)(c).

(B) Conduct the ecological analysis as described in WAC 173-26-300 (3)(d)(i) and cumulative impact analysis as described in WAC 173-26-300 (3)(d)(iii).

(C) Set measurable performance criteria, thresholds, or benchmarks, such as area of natural or restored vegetation or length of unmodified or restored shoreline to maintain and restore PFC.

(D) Establish a program of monitoring land use and shoreline permit activities, including letters of exemption, to accurately assess the condition of the shoreline with respect to the performance criteria.

(E) Identify a long term funding source and commitment.

(F) Identify a timely procedure to incrementally adjust management activities to respond to new information. In some cases, monitoring results may lead to changes in master program provisions.

(ii) In addition, the department, in conjunction with local governments and applicable state agencies, shall institute the following statewide monitoring and regulatory response program:

(A) Local governments shall keep records of all permit and land use actions regulated under the master program, including letters of exemption and impact analysis documentation prepared under chapter 43.21C RCW, and provide such information to the department.

(B) The department shall compile all such documentation into a readily accessible data base.

(C) The department shall visit a minimum of 100 completed projects per year and verify whether or not the in-place construction meets the permit or letter of exemption requirements. The department shall inform local governments of its findings and required actions, if any. Where possible and appropriate, the department's visit will take place at the time of the local government's final inspection and prior to occupancy together with follow up visits thereafter.

(D) Each year, the department shall prepare a summary report of the site visits along with related information. The report shall include findings and recommendations for alleviating conditions or trends that could constitute take or inhibit the attainment or maintenance of properly functioning condition. The information will document development actions, assess current levels of compliance, and identify shoreline management activities requiring change in order to achieve PFC objectives. Where applicable, the findings will be compared to ongoing monitoring of ecological functions by other agencies.

(E) The 100 site visits will be selected by the department to represent the full range of development actions and shoreline conditions (e.g., marine, riverine, Eastern Washington, Western Washington, etc.).

(F) The department, along with local governments, shall evaluate the effectiveness of current guidelines in achieving Shoreline Management Act policies, giving particular consideration to the conservation of habitat that supports T&E species, at least once every five years, as called for in RCW 90.58.060(3). The department shall amend the guidelines to achieve PFC and other Shoreline Management Act objectives.

In addition, the department shall participate as appropriate in more detailed inventory monitoring and adaptive management activities conducted by other state resource agencies.

(c) **Ecological functions.**

(i) **General.**

RCW 90.58.020 includes the following statement:

This policy contemplates protecting against adverse effects to the public health, the land and its vegetation and wildlife, and the waters of the state and their aquatic life, while protecting generally public rights of navigation and corollary rights incidental thereto.

This chapter implements the above-cited statutory policy through the protection and restoration of ecological functions. The concept of ecological functions, as defined in WAC 173-26-020, recognizes that successful management of the shoreline environment depends on sustaining the:

- Ecosystem-wide fluvial, current, and wave processes, including those that form habitats, and
- Individual functions and their processes that are present in each habitat type.

The loss or degradation of one or more ecosystem-wide processes or individual functions can significantly impact shoreline habitats and human health and safety. Shoreline master programs shall address the applicable ecosystem-wide processes and individual ecological functions identified in the ecological systems analysis described in WAC 173-26-300 (3)(d)(i).

Nearly all shoreline areas, even substantially developed or degraded areas, retain some important ecological functions. For example, an intensely developed harbor area may also serve as a fish migration corridor and feeding area critical to species survival. Also, ecological systems are themselves interconnected. For example, the life cycle of anadromous fish, depends upon the viability of freshwater, marine, and terrestrial shoreline ecosystems, and many wildlife species associated with the shoreline depend on the health of both terrestrial and aquatic environments. Therefore, the objectives for protection and restoration of ecological functions generally apply to all shoreline areas, not just those that remain relatively unaltered.

Master programs shall contain provisions to protect and to contribute to the restoration of ecological functions and ecosystem-wide processes based on analysis described in WAC 173-26-300 (3)(d)(i).

(ii) **Functions related to properly functioning condition.**

Several provisions in Part IV of this chapter require that master programs be directed toward the maintenance or attainment of "properly functioning condition" for T&E species. This subsection amplifies the intent of those provisions and describes the method for determining whether or not a master program meets the requirement for PFC.

Master program provisions must not allow development that impairs currently properly functioning habitat, reduces the functioning of already impaired habitat, or retards the long-term progress of impaired habitat toward PFC.

In order to satisfy the conditions of Part IV related to PFC, local governments must demonstrate that master program provisions accomplish the following two requirements:

- Maintain PFC where it occurs.
- Contribute to the attainment of PFC where proper functioning has been impaired. Master programs must include provisions that will result in the long-term improvement of impaired conditions even if those provisions, in themselves, will not achieve PFC in the foreseeable future.

The methodology for local governments to demonstrate conformance to this standard is described by the process below. The methodology tasks listed below also fit within the requirements of WAC 173-26-300 (2)(c)(i) and the process described in WAC 173-26-300(3).

- **Task 1:** Identify the status and biological requirements of the affected species regarding the life history phases within the jurisdiction. This information may be obtained through the department and other local state and federal resource agencies. Contact the department for access to necessary information.
- **Task 2:** Evaluate what aspects of the baseline inventory conditions are achieving species' requirements. As part of the analysis conducted in WAC 173-26-300 (3)(d)(i), (iii), (viii), (ix), and (x), analyze the implications of the information gathered as part of inventory described in WAC 173-26-300 (3)(c). As part of the inventory process, identify those stretches of shorelines with baseline conditions determined to be either "properly functioning," "at risk," or "not properly functioning." With respect to properly functioning condition determination, it is particularly important to identify those functions that have been altered to the point that they are limiting or threatening species survival and recovery. These are the functions that shall be given top priority for restoration.
- **Task 3:** Consider cumulative impacts in the jurisdiction. Accomplish this task through the cumulative impact analysis described in WAC 173-26-300 (3)(d)(iii). Establish master program provisions to address cumulative impacts to properly functioning condition as described in WAC 173-26-300 (3)(g).
- **Task 4:** Determine the effects of the proposed master program on T&E species. This evaluation may be accomplished through analysis included in an impact evaluation conducted under the Washington State Environmental Policy Act. In order to approve a master program, the department must find that development conducted under the jurisdiction of the Shoreline Management Act and allowed by the proposed master program does not have the potential to hinder attainment of properly functioning condition and has an insignificant (extremely low) probability of harming T&E species or resulting in the destruction or adverse modification of their shoreline and aquatic habitat. In making this evaluation, the department will consider the ways that master program provisions will protect existing habitats with PFC and restore impaired conditions critical to species' survival.
- **Task 5:** Establish shoreline policies, regulations and environment designations, as appropriate to protect PFC and ecological functions along those shorelines that are "properly functioning" and "at risk," and to restore ecological functions of those shorelines "not properly functioning" to the point where they effectively contribute to and eventually attain PFC for all shoreline areas within the watershed, sub-basin, or shoreline area within question.

For T&E salmonid species, the following objectives are relevant to PFC:

- Protect and restore the distribution, diversity, and complexity of watersheds, marine environments, and landscape-scale features to ensure protection of the aquatic systems to which species, populations, and communities are uniquely adapted.
- Protect and restore spatial and temporal connectivity within and between watersheds and along marine shorelines. Lateral, longitudinal, and drainage network connections include flood plains, wetlands, upslope areas, headwater tributaries, and intact refugia. Provide chemically and physically unobstructed routes to areas critical for fulfilling life history requirements of aquatic and riverine-dependent species.
- Protect and restore the physical integrity of the aquatic system, including shorelines, beaches, banks, marine nearshore habitats, and bottom configurations.
- Protect and restore timing, volume, and distribution of large woody debris (LWD) recruitment by protecting trees in riverine and marine habitat conservation areas.
- Protect and restore the water quality necessary to support healthy aquatic and wetland ecosystems. Attain water

quality within the range that maintains the biological, physical, and chemical integrity of the system and benefits survival, growth, reproduction, and migration of individuals composing aquatic and riverine communities.

- Protect and restore the sediment regime under which aquatic ecosystems evolved. Elements of the sediment regime include the timing, volume, rate, and character of sediment input, storage, and transport.
- Protect and restore in-stream flows including natural range of flow variability sufficient to create and sustain riverine, aquatic, and wetland habitats, retain patterns of sediment, nutrient, and wood routing, and optimize the essential features of designated critical habitat. The timing, magnitude, duration, and spatial distribution of peak, high, and low flows should be maintained, where optimum, and restored, where not optimum.
- Protect and restore the timing, variability, and duration of flood plain inundation and water table elevation in meadows and wetlands.
- Protect and restore the species composition and structural diversity of plant communities in riverine areas and wetlands to provide adequate summer and winter thermal regulation, nutrient filtering, appropriate rates of surface erosion, bank erosion, and channel migration and to supply amounts and distributions of coarse woody debris sufficient to sustain physical complexity and stability.
- Protect and restore habitat to support well-distributed populations of native plant, invertebrate, and vertebrate species.
- Protect and restore marine shoreline conditions to support T&E species.

For those shoreline areas that affect T&E species, the ecological functions and processes necessary to support those species are of special importance. Applicable master programs shall include measures to protect and restore those functions necessary to attain properly functioning condition for T&E species.

(d) **Preferred uses.**

RCW 90.58.020 states:

In the implementation of this policy the public's opportunity to enjoy the physical and aesthetic qualities of natural shorelines of the state shall be preserved to the greatest extent feasible consistent with the overall best interest of the state and the people generally. To this end uses shall be preferred which are consistent with control of pollution and prevention of damage to the natural environment, or are unique to or dependent upon use of the state's shoreline. Alterations of the natural condition of the shorelines of the state, in those limited instances when authorized, shall be given priority for single family residences and their appurtenant structures, ports, shoreline recreational uses including but not limited to, parks, marinas, piers, and other improvements facilitating public access to shorelines of the state, industrial and commercial developments which are particularly dependent on their location on or use of the shorelines of the state and other development that will provide an opportunity for substantial numbers of the people to enjoy the shorelines of the state. Alterations of the natural condition of the shorelines and shorelands of the state shall be recognized by the department. Shorelines and shorelands of the state shall be appropriately classified and these classifications shall be revised when circumstances warrant regardless of whether the change in circumstances occurs through man-made causes or natural causes.

Consistent with this policy, these guidelines use the terms "water-dependent," "water-related," and "water-enjoyment," as defined in WAC 173-26-030, when discussing appropriate uses for various shoreline areas.

Shoreline areas, being a limited ecological and economic resource, are the setting for competing uses and ecological protection and restoration activities. Consistent with RCW 90.58.020, local governments should, when determining allowable uses and resolving use conflicts on shorelines within their jurisdiction, apply the following preferences and priorities in the order listed below, starting with (i) of this subsection.

(i) Reserve appropriate areas for protecting and restoring properly functioning condition for T&E species and ecological functions to control pollution and prevent damage to the natural environment and public health.

(ii) Reserve shoreline areas for water-dependent uses and establish policies and regulations so that water-dependent development is consistent with comprehensive ecological protection and restoration objectives. Harbor areas and areas that are generally considered navigable for commercial purposes should be reserved for water-dependent and water-related uses unless the local governments can demonstrate that adequate shoreline is reserved for future water-dependent and water-related uses. Local governments may prepare master program provisions to allow mixed-use developments that include and support water-dependent uses and address specific conditions that affect water-dependent uses.

(iii) Reserve shoreline areas for water-related and water-enjoyment uses that are compatible with water-dependent uses and ecological protection and restoration objectives.

(iv) Locate single-family residential uses where they are appropriate and can be developed without significant impact to ecological functions or displacement of water-dependent uses.

(v) Limit nonwater-oriented uses to those locations where either water-oriented uses are inappropriate or where nonwater-oriented uses demonstrably contribute to the objectives of the Shoreline Management Act.

Local conditions and environmental constraints may result in lower priority uses being accommodated. For example, an undeveloped shoreline may not be an appropriate site for a water-dependent use, such as a cargo facility, but may accommodate a recreational trail (water-enjoyment) of a lower priority.

For shorelines of statewide significance, apply the preferences as indicated in WAC 173-26-350(2).

(e) **Cumulative impacts.**

Some types of shoreline developments do not cause measurable ecological harm as individual development projects but can cause significant ecological impacts when considered together with similar projects on a specific shoreline. Examples may include a group of residential bulkheads that, taken together, disrupt sediment drift, cause erosion down-current,

and cause loss of forage fish habitat, and incremental construction of impervious surfaces, which prevent water infiltration and retention, exacerbate flooding, and cause stream bed scouring.

Cumulative impacts due to incremental development can also cause significant damage to habitat. Therefore, shoreline master programs must not allow classes of actions that, when considered cumulatively, cause significant ecological impact to shoreline functions or would hinder or prevent the attainment or maintenance of properly functioning condition for T&E species.

The method to accomplish this requirement is to identify potential ecological impacts that could occur from the maximum amount and extent of development allowed by the master program and establish master program provisions and/or mitigation requirements to address the maximum possible ecological impact, as described in WAC 173-26-300 (3)(d)(iii).

In areas where degradation has already occurred, such requirements may be part of restoration of functions that contribute to properly functioning condition.

(f) **Environmental impact mitigation.**

Because the Shoreline Management Act recognizes both the appropriate use and environmental protection of the state's shorelines, situations may arise in which otherwise allowable development must include measures to mitigate environmental impacts and implement the Shoreline Management Act's environmental protection objectives. Rules implementing Washington's State Environmental Policy Act of 1971, chapter 43.21C RCW, also address environmental impact mitigation in WAC 197-11-660 and define mitigation in WAC 197-11-768. Where these guidelines call for mitigation or mitigation sequencing, shoreline master programs shall include provisions for providing environmental impact mitigation. This may be done by prescribing specific mitigation actions for specific uses as called for in WAC 173-26-340 (2)(a), by requiring conditional use permits as described in WAC 173-26-340 (2)(b), and/or by implementing a plan for comprehensive environmental mitigation.

To this end, master programs shall indicate that, where required, mitigation measures shall be applied in the sequence defined in WAC 173-26-020. In determining appropriate mitigation measures, avoidance of impacts by means such as relocating or redesigning the proposed development shall be applied first. Lower priority measures shall be applied only after higher priority measures are demonstrated to be not feasible or not applicable.

(g) **Assurance of development compliance.**

(i) **Letters of exemption.**

A mechanism must be established to ensure that new development meets the conditions and objectives of these guidelines, even if the development is exempt from the requirement to obtain a shoreline permit. Therefore, local governments shall require that development normally exempted from the requirement to obtain a shoreline permit not be undertaken without a letter of exemption from the applicable local government if the proposed development is any of the following:

- Waterward of the ordinary high-water mark or bank full width, whichever applies, including any form of stream channel modification.
- Shoreline stabilization, including the construction, addition to, or repair of residential bulkheads.
- Development associated with the construction of or addition to a single-family residence.
- Clearing and grading.
- Road construction when a shoreline permit is not required.

The letters of exemption shall describe conditions, requirements, or limitations placed upon the proposed development where necessary to ensure that the development does not cause significant ecological impacts or contribute to potential adverse cumulative impacts. Projects to improve fish or wildlife habitat or fish passage that meet the criteria of RCW 90.58.147 do not require a letter of exemption.

(ii) **Compliance assurance mechanism.**

Master programs must include a mechanism for assuring that the completed development meets the conditions and mitigation requirements of the permit or letter of exemption, the master program, and the act. Such a mechanism may include a performance bond or expressed enforcement conditions or penalties. In the case of a bond, the bond shall not be released before a final inspection indicates the bond conditions have been met. Bonding requirements for projects by local governments and state agencies are limited by RCW 36.32.590.

Local governments participating in the program must perform a final inspection of all development permitted or conditioned with a letter of exemption and take measures to ensure correction of conditions not in compliance. Local governments shall send results of final inspections, including descriptions of noncompliant conditions and violations, to the department. (See chapter 173-27 WAC for permit enforcement provisions.)

(3) **Steps in preparing and amending a master program.**

(a) **Process overview.**

Figure 4 below illustrates a generalized process to prepare or comprehensively amend a shoreline master program. Local governments may modify the timing of the various steps, integrate the process into other planning activities, add steps to the process, or work jointly with other jurisdictions or regional efforts, provided the provisions of this chapter are met.

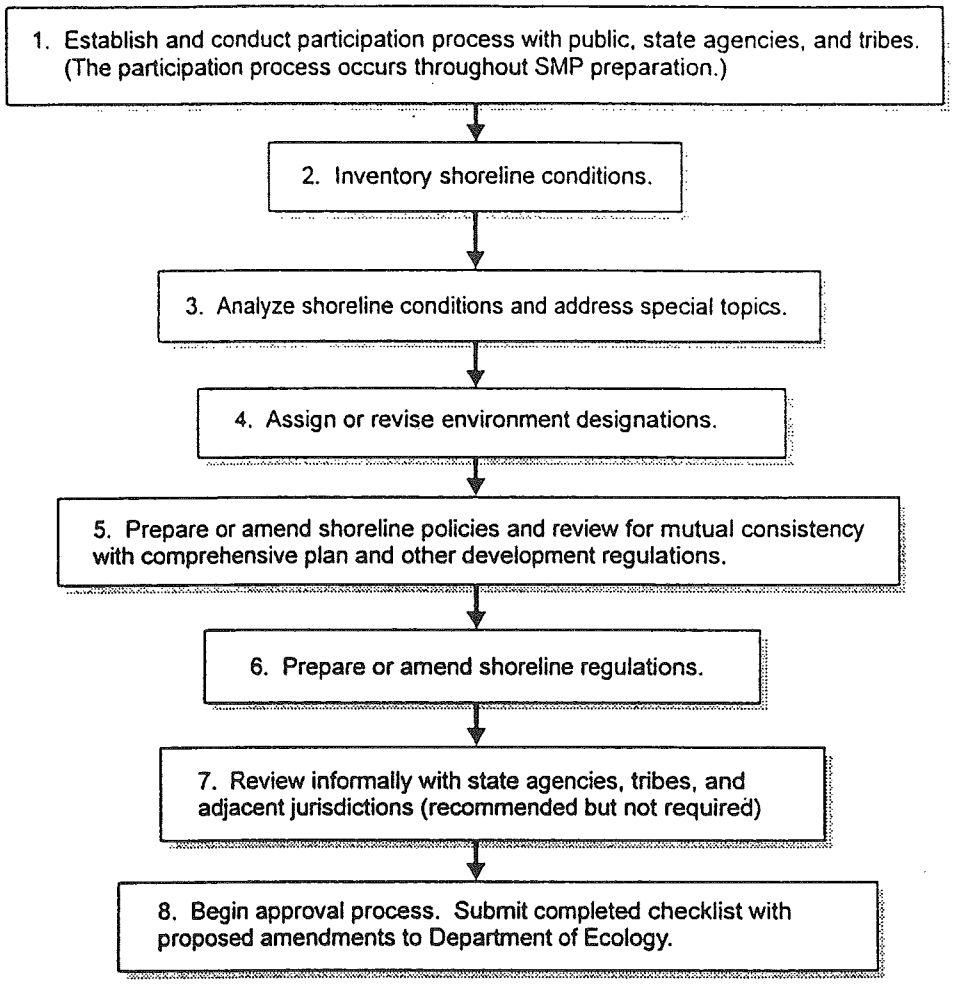

Figure 4. Steps in preparing comprehensive shoreline master program amendments.
(This is for illustration purposes only and does not supplement or add to the language in the chapter text.)

The department will provide a shoreline master program amendment checklist to help local governments identify issues to address. The checklist will not create new or additional requirements beyond the provisions of this chapter. The checklist is intended to aid the preparation and review of master program amendments. Local governments shall submit the completed checklist with the proposed master program amendments. The department will send completed checklists to other resource agencies and affected Indian tribes reviewing the master program.

(b) **Participation process.**

Establish a public and intergovernmental participation process.

(i) **Public participation.**

RCW 90.58.130 states:

To insure that all persons and entities having an interest in the guidelines and master programs developed under this chapter are provided with a full opportunity for involvement in both their development and implementation, the department and local governments shall:

(1) Make reasonable efforts to inform the people of the state about the shoreline management program of this chapter and in the performance of the responsibilities provided in this chapter, shall not only invite but actively encourage participation by all persons and private groups and entities showing an interest in shoreline management programs of this chapter; and

(2) Invite and encourage participation by all agencies of federal, state, and local government, including municipal and public corporations, having interests or responsibilities relating to the shorelines of the state. State and local agencies are directed to participate fully to insure that their interests are fully considered by the department and local governments.

For local governments planning under the Growth Management Act, the provisions of RCW 36.70A.140 also apply.

At a minimum, all local governments shall be prepared to describe and document their methods to ensure that all interested parties have a meaningful opportunity to participate. If a local committee or other group is appointed to advise the amendment process, local governments shall ensure that that body represents the full range of interests of all citizens within the local jurisdiction.

(ii) **Communication with state agencies.**

Before undertaking substantial work, local governments shall notify applicable state agencies to identify state interests, relevant regional and statewide efforts, available infor-

mation, and methods for coordination and input. Contact the department for a list of applicable agencies to be notified.

(iii) **Communication with affected Indian tribes.**

Prior to undertaking substantial work, local governments shall notify affected Indian tribes to identify tribal interests, relevant tribal efforts, available information and methods for coordination and input. Contact the individual tribes or coordinating bodies, such as the Northwest Indian Fisheries Commission, for a list of affected Indian tribes to be notified.

(c) **Inventory shoreline conditions.**

Gather and incorporate all pertinent and available information, existing inventory data and materials from state agencies, affected Indian tribes, watershed management planning, and other appropriate sources. Ensure that, whenever possible, inventory methods and protocols are consistent with those of neighboring jurisdictions and state efforts. Map inventory information at an appropriate scale.

Part IV of this chapter requires that several shoreline issues, such as critical area protection, vegetation management, and shoreline stabilization, be addressed on a comprehensive basis to achieve properly functioning condition. To accomplish this requires an inventory that is sufficiently comprehensive to characterize the shoreline ecosystems and sufficiently detailed to provide baseline information for monitoring and adaptive management.

The preferred method for local governments to accomplish a detailed, comprehensive inventory of ecological conditions is to participate in an interjurisdictional statewide, regional, or watershed-based inventory that, at a minimum, meets the requirements of this section. If such an inventory is being conducted to improve resource management efforts, local governments preparing master program amendments should work with the applicable state agencies and affected Indian tribes to determine the level of detail, methodology, and cooperative steps necessary to provide a baseline for monitoring purposes.

The department will provide, to the extent possible, services and resources for inventory work. Contact the department to determine information sources and other relevant efforts.

Local governments shall be prepared to demonstrate how the inventory information was used in preparing their local master program amendments.

Collection of additional inventory information is encouraged and should be coordinated with other watershed, regional, or statewide inventory and planning efforts in order to ensure consistent methods and data protocol as well as effective use of fiscal and human resources. Local governments should be prepared to demonstrate that they have coordinated with applicable interjurisdictional shoreline inventory and planning programs where they exist. Two or more local governments are encouraged to jointly conduct an inventory in order to increase the efficiency of data gathering and comprehensiveness of inventory information. Data from interjurisdictional, watershed, or regional inventories may be substituted for an inventory conducted by an individual jurisdiction, provided it meets the requirements of this section.

Collect and analyze the following information:

(i) Shoreline and adjacent land use patterns and transportation and utility facilities, including the extent of existing structures, impervious surfaces, vegetation and shoreline modifications in shoreline jurisdiction.

(ii) Critical areas, including wetlands, aquifer recharge areas, fish and wildlife conservation areas, geologically hazardous areas, and frequently flooded areas, as required by RCW 36.70A.170. See also WAC 173-26-320 (2) and (3).

(iii) Degraded areas and sites with potential for ecological restoration.

(iv) Areas of special interest, such as priority habitats, rapidly developing waterfronts, clean-up sites, or eroding shorelines, to be addressed through new master program provisions.

(v) Conditions and regulations in shoreland and adjacent areas that affect shorelines, such as surface water management and land use regulations. This information may be useful in achieving mutual consistency between the master program and other development regulations.

(vi) Existing and potential shoreline public access sites, including public rights-of-way and utility corridors.

(vii) General location of bank full width limits, channel migration zones, and flood plains.

(viii) Gaps in existing information. During the initial inventory, local governments should identify what additional information may be necessary for more effective shoreline management and develop strategies to collect this information.

(ix) If the shoreline is rapidly developing or subject to substantial human changes such as clearing and grading, past and current records or historical aerial photographs may be necessary to identify cumulative impacts, such as bulkhead construction, intrusive development on priority habitats, and conversion of harbor areas to nonwater-oriented uses.

(x) If archaeological or historic resources have been identified in shoreline jurisdiction, consult with the state historic preservation office and local affected Indian tribes regarding existing archaeological and historical information.

For those shorelines that affect T&E species, the inventory information shall establish baseline conditions for the items listed below:

Natural:	***Physical:***
	Location and extent of populations of T&E species
	Drift cells
	Direction of littoral drift (primary)
	Sediment accretion areas (marine and riverine)
	Sediment transport zones (marine and riverine)
	Erosional zones and "feeder" bluffs
	Geological hazard areas
	Wave energy or fetch
	Intertidal substrate description
	Shallow subtidal (-10 feet MLLW) substrate description
	Channel migration zones
	Pool/riffle ratios
	Flood plains
	Ground water upwellings or springs
	Hydric soils

	Biological:
	Forage fish spawning and holding areas
	Shellfish areas (both certified and uncertified)
	Eelgrass beds
	Algae and kelp beds
	Spit berm vegetation (gravelly and sandy soils)
	Condition of riverine vegetation (native and nonnative) age and width
	Submerged and emergent vegetation
	Wetlands (associated and isolated), including salt marsh areas
	Salmon and bull trout spawning, rearing, feeding, and migration areas
	Location, condition, and species diversity of marine riparian vegetation
Altered Conditions:	***Land use:***
	Zoning density (units per acre)
	Single-family residences and appurtenant structures
	Agricultural structures and practices
	Aquacultural practices
	Industrial complexes, outfalls, and appurtenant structures
	Commercial buildings and appurtenant structures
	Bulkheads and shore hardening, including levees and dikes
	Filled and dredged areas
	Docks, piers, and other over-water structures
	Storm water outfalls
	Sewer outfalls
	Roads, railroad facilities, and bridges within shoreline jurisdiction
	Extent of impermeable surfaces
	Identified contaminated sediments
	Tide gates, ditches, diversions, culverts, and barriers to wildlife migration
	Utilities
	Shoreline designations
	Land use overlays
	Development within channel migration zones

For those items inventoried for protection and restoration of habitat for T&E species, document the information at a scale sufficiently detailed to be able to identify changing conditions over time. Washington state resource agencies have inventory information available for most items. Contact the department for access to inventory records.

(d) **Analyze shoreline issues of concern.**

To implement policies of the Shoreline Management Act and ensure properly functioning condition for listed T&E species, analyze shoreline conditions based on information gathered in (c) of this subsection and address special topics. Before establishing specific master program provisions, local governments shall perform analysis and planning tasks necessary to ensure effective shoreline management provisions, addressing the topics below, where applicable.

(i) **Characterization of functions and ecosystem-wide processes.**

Prepare a characterization of shoreline ecological systems. These systems include riverine, lacustrine, marine and wetland systems as listed in WAC 173-26-020. The characterization consists of three steps:

(A) Identify which of the ecosystem-wide processes and ecological functions listed in WAC 173-26-020 apply within shoreline jurisdiction and identify which have been significantly altered and which may be missing or significantly impacted;

(B) Assess the ecosystem-wide processes to determine their effect/impact on shoreline systems present within a jurisdiction and their individual functions; and

(C) Develop the specific master program provisions necessary to protect and/or restore ecological functions and ecosystem-wide processes. The characterization of shoreline ecological systems may be achieved by using one or more of the approaches below:

(I) If a regional environmental management plan, such as a watershed plan or coastal erosion study, is ongoing or has been completed, then conduct the characterization either within the framework of the regional plan or use the data provided in the regional plan. This methodology is intended to contribute to an in-depth and comprehensive assessment and characterization.

(II) If a regional environmental management plan has not been completed, use available scientific and technical information, including flood studies, habitat evaluations and studies, water quality studies, and data and information from environmental impact statements. This characterization of ecosystem-wide processes and the impact upon the functions of specific habitats and human health and safety objectives may be of a generalized nature.

(III) One or more local governments may pursue a characterization which includes a greater scope and complexity than listed in items (I) and (II) of this subsection.

Local governments shall ensure that master program provisions protect the shoreline processes within the subject jurisdiction that are critical to creating and sustaining properly functioning condition and other ecological functions. To achieve this, the level of resource protection must account for risks to the environment and cumulative impacts from development allowed by the master program. Local governments shall use this analysis to prepare master program provisions as described in WAC 173-26-300 (3)(g), to protect and to contribute to the restoration of the ecosystem-wide processes and individual ecological functions on a comprehensive basis over time. This does not necessarily require that each development or action on the shoreline individually improve ecological functions, provided PFC for T&E species is not degraded.

For shoreline areas that affect T&E species, the ecosystem characterization shall include an identification of those functions and processes limiting the sustainability and recovery of those species. This analysis should be done for discrete reaches or shoreline segments of differing characteristics. It shall be sufficiently detailed to determine the current performance of shoreline functions relative to properly functioning condition for T&E species. The analysis shall identify those master program provisions necessary to attain properly functioning condition. Local governments shall use scientific and technical information and should consult with department technical assistance materials and work with federal, state, and local resource agency teams and affected Indian tribes when analyzing ecological conditions and their implications for priority species' survival.

(ii) **Shoreline use analysis and priorities.**

Conduct an analysis to determine the future demand for shoreline space and the methods to resolve potential use conflicts. Characterize current shoreline use patterns and projected trends to ensure a balance of uses consistent with chapter 90.58 RCW and WAC 173-26-300 (2)(d).

If the jurisdiction includes a harbor area or urban waterfront with intensive uses or significant development issues, work with the Washington state department of natural resources and port authorities to ensure consistency with harbor area statutes and regulations. Identify measures and strategies to encourage appropriate use of these shoreline areas while pursuing opportunities for ecological restoration.

(iii) **Cumulative impacts.**

At a minimum, local governments, with the assistance of state agencies, should project the ultimate allowed full build-out condition for existing and proposed master program provisions being considered. This assessment should include potential impacts due to all development, including current conditions and those uses not requiring a shoreline permit. Master programs should address cumulative adverse impacts caused by incremental development, such as residential bulkheads, residential piers, or runoff from newly developed properties, and shall include master program provisions as described in WAC 173-26-300 (3)(g), to assess, minimize, and mitigate cumulative impacts.

For shorelines that affect priority species, local governments shall prepare a biological evaluation of the full build-out condition allowed by the master program. The full build-out condition assumes the maximum impact of development permitted by the proposed master program. Where projected cumulative impacts are found to adversely affect ecological functions, adjust master program provisions to achieve the objectives stated in WAC 173-26-300 (2)(c), (d), and (e). Where projected cumulative impacts are found to adversely affect T&E species populations, master program provisions shall be adjusted so that there will be no cumulative significant ecological impacts to PFC at full build-out. At a minimum, the biological evaluation shall address the following:

- Impacts of shoreline stabilization and impacts to the near-shore habitat and critical aquatic habitats.
- Residential development.
- Over-water structures, including residential docks, and impacts to the near-shore habitat and critical aquatic habitats.
- Vegetation conservation and impacts to shoreline stability, water quality, and aquatic habitats.
- Control of exotic species.
- Water quality and quantity, including storm water runoff, discharges, hydrographic response, and pollutant levels.
- Impacts of forest and agricultural practices.

Cumulative impact analysis shall incorporate scientific and technical information. Local governments should consult with technical assistance materials for addressing cumulative impacts produced by the department.

(iv) **Shorelines of statewide significance.**

If the area contains shorelines of statewide significance, undertake the steps outlined in WAC 173-26-350.

(v) **Public access.**

Identify public access needs and opportunities within the jurisdiction and explore actions to enhance shoreline recreation facilities, as described in WAC 173-26-320(4).

(vi) **Enforcement and coordination with other regulatory programs.**

Local governments planning under the Growth Management Act shall review their comprehensive plan policies and development regulations to ensure mutual consistency. In order to effectively administer and enforce master program provisions, local governments should also review their current permit review and inspection practices to identify ways to increase efficiency and effectiveness and to ensure consistency.

(vii) **Water quality and quantity.**

Identify water quality and quantity issues relevant to master program provisions, including those that affect human health and safety. At a minimum, consult with appropriate federal, state, tribal, and local agencies.

(viii) **Vegetation conservation.**

Identify how existing shoreline vegetation provides ecological functions and determine methods to ensure protection of those functions. Identify important ecological functions that have been degraded through loss of vegetation and feasible means to restore those functions. Consider the amount of vegetated shoreline area necessary to achieve ecological objectives. While there may be less vegetation remaining in urbanized areas than in rural areas, the importance of this vegetation, in terms of the ecological functions it provides, is often as great or even greater than in rural areas due to its scarcity. Identify measures to ensure that new development meets vegetation conservation objectives.

(ix) **Ecological restoration.**

Where restoration of the shoreline is necessary for protection and restoration efforts for T&E species or management of priority species or habitats, local governments shall base restoration requirements on comprehensive restoration planning, using scientific and technical information that identifies specific sites, preferred methods, implementation incentives, requirements, and projects.

(x) **Special area planning.**

If the jurisdiction includes complex shoreline ecological issues, changing uses, or other unique features, the local government is encouraged to undertake special area planning. Special area planning may be used to address: Public access, vegetation conservation, shoreline use compatibility, port

development master planning, ecological restoration, or other issues best addressed on a comprehensive basis.

The resultant plans may serve as the basis for facilitating state and local government coordination and permit review. Special-area planning shall provide for public and affected Indian tribe participation.

(e) **Establish environment designations.**

Establish environment designations and identify permitted uses, and development standards for each environment designation.

Based on the inventory in (c) of this subsection and the analysis in (d) of this subsection, assign each shoreline segment an environment designation.

Prepare specific environment designation policies and regulations, including those necessary to maintain properly functioning condition for T&E species.

Review the environment designations for mutual consistency with comprehensive plan land use designations as indicated in WAC 173-26-310(3).

In determining the boundaries and classifications of environment designations, adhere to the priorities in WAC 173-26-300 (2)(d).

In accordance with WAC 173-26-310, environment designation policies and regulations shall identify and protect ecologically intact shorelines that are largely free of human influence, prevent further loss of ecological functions on a comprehensive basis, and identify urban areas suitable for water-dependent uses and ecological rehabilitation.

In the master program environment designation provisions and boundaries, identify the areas where structural shoreline stabilization measures generally will be prohibited or greatly restricted to avoid damage to natural shoreline functions, those areas where restoration of natural shoreline processes will be encouraged or required, and those areas where shoreline stabilization may be appropriate because of the potential for property damage or the needs of water-dependent uses.

(f) **Establish shoreline policies.**

Address all of the elements listed in RCW 90.58.100(2). Review for mutual consistency with the comprehensive plan policies. If there are shorelines of statewide significance, ensure that the other comprehensive plan policies affecting shoreline jurisdiction are consistent with the objectives of RCW 90.58.020 and 90.58.090(4). If the shorelines affect T&E species, include a policy in the master program calling for properly functioning condition for the T&E species and review the comprehensive plan for consistency.

(g) **Prepare shoreline regulations.**

Prepare shoreline regulations based on the analyses described in this section and consistent with the guidelines of this chapter. The level of detail of inventory information and planning analysis will be a consideration in setting shoreline regulations. As a general rule, the less known about existing resources, the more stringent shoreline master program provisions should be to avoid irreparable damage to shoreline resources. If there is a question about the extent or condition of an existing ecological resource, then the master program provisions shall be sufficiently restrictive to ensure that the resource is protected. Shorelines that affect T&E species shall be afforded special consideration to maintain or contribute to the restoration of properly functioning condition.

The regulations shall be sufficient to address cumulative impacts as described in WAC 173-26-300 (2)(e) and (3)(d)(iii).

(h) **Submit for review and approval.**

Local governments are encouraged to work with department personnel during preparation of the master program and to submit draft master program provisions to the department for informal advice and guidance prior to formal submittal.

Local governments shall submit the completed checklist, as described in WAC 173-26-300 (3)(a), with their master program amendments proposed for adoption. Master program review and formal adoption procedures are described in Parts I and II of this chapter. The checklist will include a monitoring and adaptive management program described in WAC 173-26-300 (2)(b).

[Statutory Authority: RCW 90.58.060 and 90.58.200. 00-24-031 (Order 95-17a), § 173-26-300, filed 11/29/00, effective 12/30/00.]

WAC 173-26-310 Environment designation system.

(1) **Applicability.**

This section applies to the establishment of environment designation boundaries and provisions as described in WAC 173-26-290 (1)(d).

(2) **Basic requirements for environment designation classification and provisions.**

Master programs shall contain a system to classify shoreline areas into specific environment designations. This classification system shall be based on the existing use pattern, the biological and physical character of the shoreline, and the goals and aspirations of the community as expressed through comprehensive plans. Each master program's classification system shall be consistent with that described in WAC 173-26-310 (4) and (5) unless there is a compelling reason, based on the act and this chapter, to the contrary and the alternative proposed provides equal or better implementation of the act, particularly with respect to protection of T&E species.

An up-to-date and accurate map of the shoreline area delineating the environment designations and their boundaries shall be prepared and maintained in the local government office that administers shoreline permits. If it is not feasible to accurately designate individual parcels on a map, the master program text shall include a clear basis for identifying the boundaries, physical features, explicit criteria, or "common" boundary descriptions to accurately define and distinguish the environments on the ground.

To facilitate consistency with land use planning, local governments planning under chapter 36.70A RCW are encouraged to illustrate shoreline designations on the comprehensive plan Future Land Use Map as described in WAC 365-195-300 (2)(d).

The map should clearly illustrate what environment designations apply to all lands in Shoreline Management Act jurisdictional limits including flood plains, river deltas, and associated wetlands.

The master program should also make it clear that in the event of a mapping error, the jurisdiction will rely upon common boundary descriptions and the criteria contained in

chapter 173-22 WAC pertaining to wetlands, as amended, rather than the incorrect or outdated map.

The map and the master program should note that all areas within shoreline jurisdiction that are not mapped and/or designated are automatically assigned a "rural conservancy" designation, or "urban conservancy" designation if within a municipality or urban growth area, until the shoreline can be redesignated through a master program amendment.

The following diagram summarizes the components of the environment designation provisions.

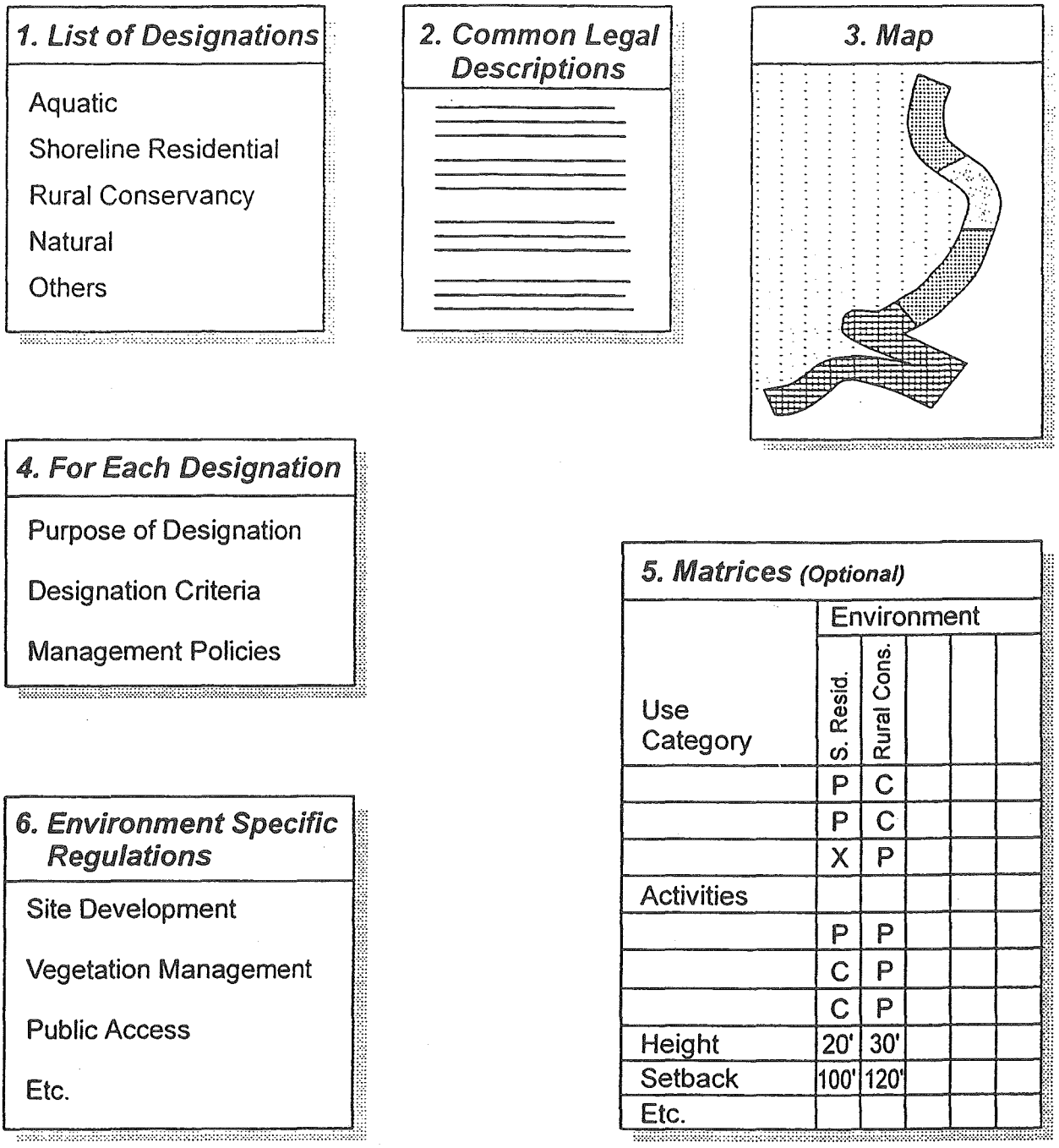

Figure 5. Diagram summarizing the components of the environment designation provisions.
(This is for illustration purposes only and does not supplement or add to the language in the chapter text.)

For each environment designation, the shoreline master program shall describe:

(a) **Purpose statement.**

The statement of purpose shall describe the shoreline management objectives of the designation in a manner that distinguishes it from other designations.

(b) **Classification criteria.**

Clearly stated criteria shall provide the basis for classifying or reclassifying a specific shoreline area with an environment designation.

(c) **Management policies.**

These policies shall be in sufficient detail to assist in the interpretation of the environment designation regulations and, for jurisdictions planning under chapter 36.70A RCW, to evaluate consistency with the local comprehensive plan.

(d) **Regulations.**

Environment-specific regulations shall address the following where necessary to account for different shoreline conditions:

(i) Regulations to maintain or restore properly functioning condition for T&E species relevant to each designation;

(ii) Preferred shoreline use requirements;

(iii) Types of shoreline uses permitted, conditionally permitted, and prohibited;

(iv) Building or structure height and bulk limits, setbacks, maximum density or minimum frontage requirements, and site development standards; and

(v) Native vegetation conservation, shoreline stabilization, parking, signs, public access, and other topics not covered in general use regulations.

(3) **Consistency between shoreline environment designations and the local comprehensive plan.**

As noted in WAC 173-26-290 (2)(a), RCW 90.58.340 requires that policies for lands adjacent to the shorelines be consistent with the Shoreline Management Act, implementing rules, and the applicable master program. Conversely, local comprehensive plans constitute the underlying framework within which master program provisions should fit. The Growth Management Act, where applicable, designates shoreline master program policies as an element of the comprehensive plan and requires that all elements be internally consistent. Chapter 36.70A RCW also requires development regulations to be consistent with the comprehensive plan.

The following criteria are intended to assist local governments and the department in evaluating the consistency between master program environment designation provisions and the corresponding comprehensive plan elements and development regulations. In order for shoreline designation provisions, local comprehensive plan land use designations, and development regulations to be internally consistent, all three of the conditions below should be met:

(a) **Provisions not precluding one another.**

The comprehensive plan provisions and shoreline environment designation provisions should not preclude one another. To meet this criteria, the provisions of both the comprehensive plan and the master program must be able to be met. The comprehensive plan and the master program should make specific provisions for resolving any apparent inconsistency. For example, a local comprehensive plan may identify a large tract of land with a stream corridor running through it as suitable for a new residential development. The comprehensive plan and the master program may be consistent even if the stream is designated "natural," because these two objectives could be achieved in a number of ways: Development could be restricted to two hundred feet landward of the ordinary high-water mark or the stream corridor could be dedicated as a passive park and trail system. Further, when considered together and applied to any one piece of property, the master program use polices and regulations and the local zoning or other use regulations should not conflict in a manner that all viable uses of the property are precluded. For example, if the property is designated as within the shoreline residential environment, it should not be zoned exclusively for industrial use.

(b) **Use compatibility.**

Land use policies and regulations should protect preferred shoreline uses from being impacted by incompatible uses. The intent is to prevent water-oriented uses, especially water-dependent uses, from being restricted on shoreline areas because of impacts to nearby nonwater-oriented uses. To be consistent, master programs, comprehensive plans, and development regulations should prevent new uses that are not compatible with preferred uses from locating where they may restrict preferred uses or development. For example, new residential development should not be allowed near shoreline heavy industrial areas unless the impacts can be mitigated through design standards applied to the new residential development.

(c) **Sufficient infrastructure.**

Infrastructure and services provided in the comprehensive plan should be sufficient to support allowed shoreline uses. Shoreline uses shall not be allowed where the comprehensive plan does not provide sufficient roads, utilities, and other services to support them. For example, high-density residential development and industrial uses shall not be allowed unless the comprehensive plan makes provision for needed infrastructure and services at appropriate locations. However, supporting infrastructure is not a justification for more intense development if that development causes significant ecological impact to habitat for T&E species.

In delineating environment designations, local governments shall ensure that existing shoreline ecological functions and properly functioning condition for T&E species can be protected and degraded shoreline ecological functions restored with the proposed pattern and intensity of urban growth. Infrastructure plans must also be mutually consistent with shoreline designations. Where they do exist, utility services routed through shoreline areas shall not be a sole justification for more intense development.

(4) **Recommended environment designation classifications.**

The recommended classification system consists of six basic environments: "High-intensity," "shoreline residential," "urban conservancy," "rural conservancy," "natural," and "aquatic." Local governments shall assign all shoreline areas an environment designation consistent with WAC 173-26-310 (4) and (5). For the purposes of WAC 173-26-310 (4) and (5), a proposed master program environment designation system is consistent with recommended designations if a given shoreline segment with the characteristics described in WAC 173-26-310 (5)(a) through (f) is assigned an environment designation with purpose, management policies, and standards to implement those policies consistent with the corresponding environment designation in WAC 173-26-310 (4)(a) through (f). For example, shoreline areas meeting the criteria in WAC 173-26-310 (5)(d) should be assigned an environment designation with purpose and management policies of the "high-intensity" environment.

Local governments may establish different designations, provided they are consistent with this chapter. For example, a local government wishing to differentiate between "conser-

vancy" shorelines used for park purposes and those for habitat restoration might establish "conservancy-park" and "conservancy-habitat" designations, each with separate purposes, criteria, policies, and use provisions. Or, a local government may wish to set site-specific standards for pier and dock construction in more sensitive aquatic areas and restrict aquaculture in harbor areas by establishing "aquatic-conservancy" and "aquatic-harbor" environments, each with different allowable uses and development standards.

Local governments may use "parallel environments" where appropriate. Parallel environments divide shorelands into different sections generally running parallel to the shoreline or along a physical feature such as a bluff or railroad right of way. Such environments may be useful, for example, to accommodate both resource protection near the shoreline and development opportunities further from the shoreline. Where parallel environments occur, development allowed in one must not preclude the maintenance or restoration of ecological functions or properly functioning condition for T&E species.

Local governments may retain their current environment designations provided they demonstrate that existing environment designation provisions are consistent with this chapter.

(a) **"Natural" environment.**

(i) **Purpose.**

The purpose of the "natural" environment is to protect and restore those shoreline areas that are relatively free of human influence or that include intact or minimally degraded shoreline functions intolerant of human use. These systems require restrictions on the intensities and types of uses permitted to maintain the ecological functions and ecosystem-wide processes.

(ii) **Management policies.**

(A) Any use that would substantially degrade the ecological functions, particularly PFC for T&E species, or natural character of the shoreline area shall be prohibited.

(B) The following new uses shall not be allowed in the "natural" environment:

- Residences (except as noted below).
- Commercial uses.
- Industrial uses.
- Agriculture that involves tilling the earth or clearing of native plant communities.
- Nonwater-oriented recreation.

Roads, utility corridors, and parking areas that can be located outside of "natural" designated shorelines.

However, limited single-family residential development may be allowed as a conditional use within the "natural" environment if such shoreline master program provisions result in an equal or greater level of ecological functions and properly functioning condition.

(C) Commercial forestry may be allowed as a conditional use in the "natural" environment provided it meets the conditions of the State Forest Practices Act and its implementing rules.

(D) Access may be permitted for scientific, historical, cultural, educational, and low-intensity water-oriented recreational purposes, provided that no significant ecological impact on the area will result.

(E) Do not allow new development or significant vegetation removal that would reduce the capability of vegetation to perform normal ecological functions or maintain PFC for T&E species. Do not allow the subdivision of property in a configuration that, to achieve its intended purpose, will require significant vegetation removal or shoreline modification that adversely impacts ecological functions. That is, each new property parcel must be able to support its intended development without significant ecological impacts to the shoreline or to the vegetation necessary to maintain ecological functions.

(b) **"Rural conservancy" environment.**

(i) **Purpose.**

The purpose of the "rural conservancy" environment is to protect, conserve, and restore ecological functions, existing natural resources, and valuable historic and cultural areas in order to achieve ecological protection, sustain resource use, achieve natural flood plain processes, and provide recreational opportunities. Examples of uses that are appropriate in a "rural conservancy" environment include low-impact outdoor recreation uses, timber harvesting on a sustained-yield basis, agricultural uses, aquaculture, low-intensity residential development consistent with the local comprehensive plan's rural element and chapter 36.70A RCW, and other related low-intensity uses.

(ii) **Management policies.**

(A) Uses in the "rural conservancy" environment should be limited to those which are nonconsumptive (i.e., do not deplete over time) of the shoreline area's physical and biological resources and uses of a nonpermanent nature that do not substantially degrade ecological functions, PFC for T&E species, or the rural or natural character of the shoreline area. Shoreline habitat restoration and environmental enhancement are preferred uses.

Except as noted below, commercial and industrial uses should not be allowed. Agricultural practices, commercial forestry, and aquaculture when consistent with provisions of this chapter may be allowed. Nonconsumptive, water-oriented commercial and industrial uses may be permitted in the limited instances where those uses have located in the past or at unique sites in rural communities that possess shoreline conditions and services to support the development.

Water-dependent and water-enjoyment recreation facilities that do not deplete the resource over time, such as boating facilities, angling, hunting, wildlife viewing trails, and swimming beaches, are preferred uses, provided significant ecological impacts to the shoreline are avoided or mitigated.

(B) Developments and uses that would substantially degrade or permanently deplete the physical or biological resources of the area or that preclude maintenance or attainment of properly functioning condition shall not be allowed.

(C) Construction of new structural shoreline stabilization and flood control works shall not be allowed except where there is a documented need to protect an existing structure or ecological functions and mitigation is applied, consistent with WAC 173-26-330. New development shall be designed and located to preclude the need for such work.

(D) For jurisdictions planning under the Growth Management Act, new residential development in the "rural conservancy" environment shall be consistent with the compre-

hensive plan rural element and with RCW 36.70A.070(5). Residential development standards shall prevent significant cumulative adverse impacts to the shoreline environment, including those that prevent properly functioning condition for T&E species. If existing development does not conform to rural element provisions, then the master program should address nonconforming uses in ways that restore ecological functions over time.

For jurisdictions not planning under the Growth Management Act, development shall be limited to a maximum of ten percent total impervious surface area within the lot or parcel lying in shoreline jurisdiction, unless an alternative standard is developed based on scientific information that meets the provisions of this chapter and protects shoreline ecological functions and properly functioning condition.

Master programs for jurisdictions not planning under the Growth Management Act may allow greater lot coverage to allow development of lots legally created prior to the adoption of a master program prepared under these guidelines. In these instances, master programs shall require that lot coverage is minimized, that impacts are mitigated according to the mitigation sequence defined in WAC 173-26-020, and that development of lots created after the adoption of a master program prepared under these guidelines does not exceed ten percent impervious surface area within shoreline jurisdiction.

(E) New shoreline stabilization, flood control measures, vegetation removal, and other shoreline modifications shall be designed and managed to ensure that the natural shoreline functions are protected and restored over time. Shoreline ecological restoration should be required of new development or redevelopment where the shoreline ecological functions have been degraded.

(c) **"Aquatic" environment.**

(i) **Purpose.**

The purpose of the "aquatic" environment is to protect, restore, and manage the unique characteristics and resources of the areas waterward of the ordinary high-water mark by managing uses and ensuring that properly functioning condition and shoreline ecological functions are protected and restored over time.

(ii) **Management policies.**

(A) Provisions for the "aquatic" environment shall be directed towards maintaining and restoring PFC for T&E species.

(B) Allow new over-water structures only for water-dependent uses or public access that will not preclude attainment of PFC for T&E species or ecological restoration.

(C) The size of new over-water structures should be limited to the minimum necessary to support the structure's intended use.

(D) In order to reduce the impacts of shoreline development and increase effective use of water resources, multiple use of over-water facilities should be encouraged.

(E) All developments and uses on navigable waters or their beds should be located and designed to minimize interference with surface navigation, to consider impacts to public views, and to allow for the safe, unobstructed passage of fish and wildlife, particularly those species dependent on migration.

(F) Uses that cause significant ecological impacts to critical saltwater and freshwater habitats shall not be allowed. Where those uses are necessary to achieve the objectives of RCW 90.58.020, their impacts shall be mitigated according to the sequence defined in WAC 173-26-020.

(G) Shoreline uses and modifications shall be designed and managed to prevent degradation of water quality and alteration of natural hydrographic conditions.

(d) **"High-intensity" environment.**

(i) **Purpose.**

The purpose of the "high-intensity" environment is to provide for high-intensity water-oriented commercial, transportation, and industrial uses while protecting existing ecological functions and restoring ecological functions in areas that have been previously degraded.

(ii) **Management policies.**

(A) In regulating uses in the "high-intensity" environment, first priority shall be given to water-dependent uses. Second priority should be given to water-related and water-enjoyment uses. Nonwater-oriented uses should not be allowed except as part of mixed-use developments or existing developed areas supporting water-dependent uses. Nonwater-oriented uses may also be allowed in limited situations where they do not conflict with or limit opportunities for water-oriented uses or on sites where there is no direct access to the shoreline. Such specific situations should be identified in shoreline use analysis or special area planning, as described in WAC 173-26-300 (3)(d).

If an analysis of water-dependent use needs as described in WAC 173-26-300 (3)(d) demonstrates the needs of existing and envisioned water-dependent uses for the planning period are met, then provisions allowing for a mix of water-dependent and nonwater-dependent uses may be established. If those shoreline areas also provide ecological functions, particularly properly functioning condition for T&E species, apply standards to prevent significant ecological impacts to those functions.

(B) Full utilization of existing urban areas should be achieved before further expansion of intensive development is allowed, provided that as development occurs, ecological functions are maintained or restored. Reasonable long-range projections of regional economic need should guide the amount of shoreline designated "high-intensity." However, nonwater-oriented uses shall not be considered when determining full utilization of urban waterfronts.

(C) New development should protect and restore shoreline ecological functions, with particular emphasis on the attainment of properly functioning condition for T&E species. Where applicable, new development shall include environmental cleanup and restoration of the shoreline in accordance with state and federal requirements.

(D) Where feasible, visual and physical public access should be required as provided for in WAC 173-26-320 (4)(d).

(E) Aesthetic objectives should be actively implemented by means such as sign control regulations, appropriate development siting, screening and architectural standards, and maintenance of natural vegetative buffers. Local governments may implement this guideline by adopting a master program policy for aesthetic objectives and implementing the

policy through other development regulations, such as sign or design review ordinances.

(e) **"Urban conservancy" environment.**

(i) **Purpose.**

The purpose of the "urban conservancy" environment is to protect and restore ecological functions, including properly functioning condition for T&E species and ecological functions in urban and developed settings, while allowing a variety of water-oriented uses.

(ii) **Management policies.**

(A) During development and redevelopment, efforts shall be taken to restore PFC for T&E species and other ecological functions. Shoreline restoration and public access should be required of all nonwater-dependent development on previously developed shorelines.

(B) Standards shall be established for shoreline stabilization measures, vegetation conservation as described in WAC 173-26-320(5), water quality, and shoreline modifications within the "urban conservancy" designation to ensure that new development maintains and contributes to the restoration of ecological functions and properly functioning condition for T&E species.

(C) Public access and public recreation objectives should be implemented whenever feasible and significant ecological impacts can be mitigated.

(D) Water-oriented uses should be given priority over nonwater-oriented uses. For shoreline areas adjacent to commercially navigable waters, water-dependent uses should be given highest priority.

(f) **"Shoreline residential" environment.**

(i) **Purpose.**

The purpose of the "shoreline residential" environment is to accommodate residential development and appurtenant structures that are consistent with this chapter and the protection and restoration of ecological functions and PFC for T&E species. An additional purpose is to provide appropriate public access and recreational uses.

(ii) **Management policies.**

(A) Development should be permitted only in those shoreline areas where adequate setbacks or buffers are possible to protect ecological functions, where there are adequate access, water, sewage disposal, and utilities systems and public services available, and the environment can support the proposed use in a manner which protects or restores the ecological functions.

(B) Densities or minimum frontage width standards in the "shoreline residential" environment shall be set to protect the shoreline ecological functions, taking into account the environmental limitations and sensitivity of the shoreline area, the level of infrastructure and services available, and other comprehensive planning considerations.

Local governments may establish two or more different "shoreline residential" environments to accommodate different shoreline densities or conditions, provided both environments adhere to the provisions in this chapter.

(C) Development standards for setbacks or buffers, shoreline stabilization, vegetation conservation, critical area protection, and water quality shall be established to protect and, where significant ecological degradation has occurred, contribute to the restoration of properly functioning condition and other ecological functions over time.

(D) Multifamily and multilot residential and recreational developments should provide public access and joint use for community recreational facilities.

(E) Access, utilities, and public services should be available and adequate to serve existing needs and/or planned future development.

(F) Commercial development should be limited to water-oriented uses.

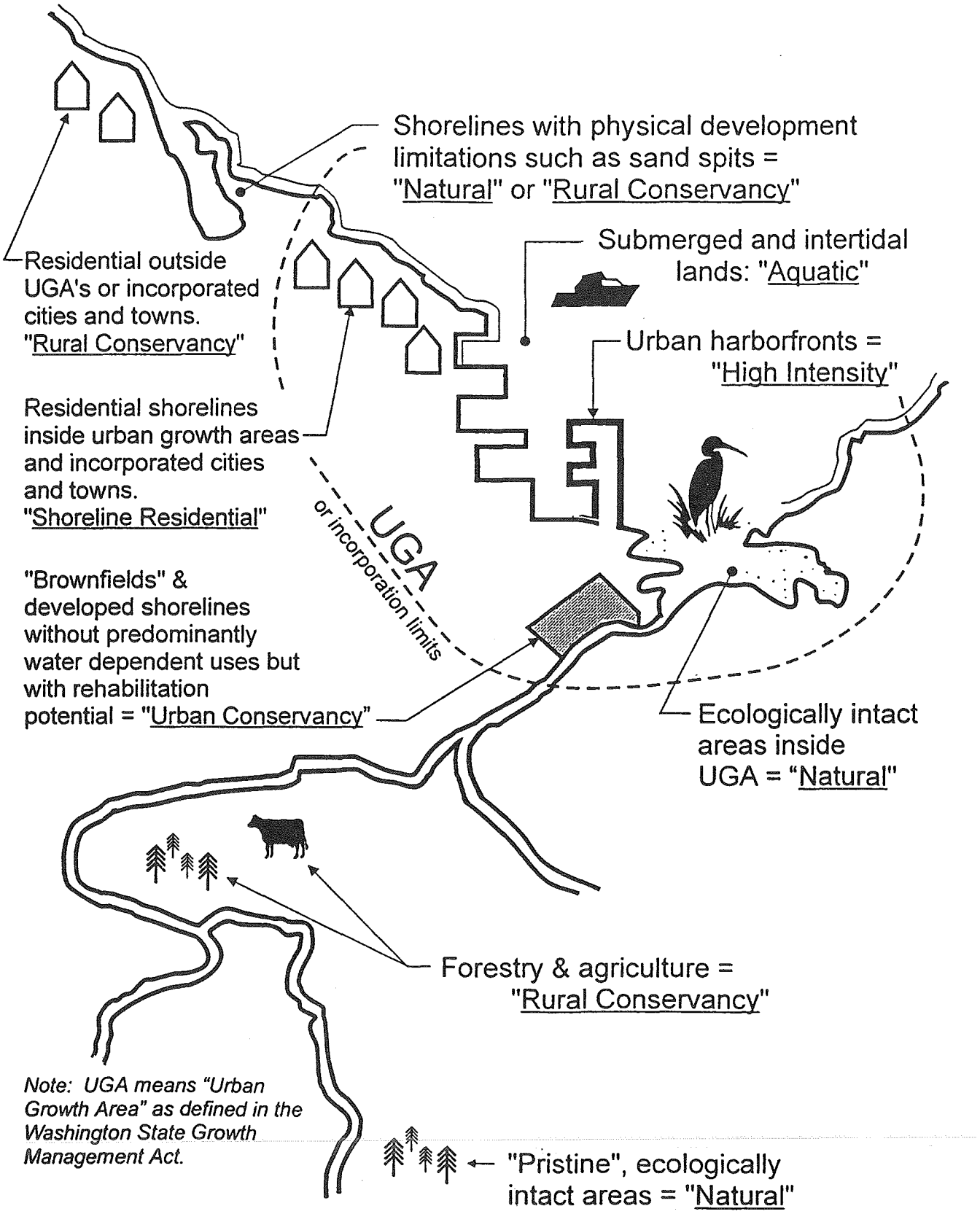

Figure 6. Schematic illustration of typical environment designations.
(This is for illustration purposes only and does not supplement or add to the language in the chapter text.)

(5) **Criteria for assigning environment designation boundaries.**

Local governments shall assign shoreline environment designations (environments) to all shoreline areas consistent with the criteria in (a) through (f) of this subsection.

(a) **"Natural" environment criteria.**

Assign a "natural" environment designation to shoreline areas if any of the following characteristics apply:

(i) The shoreline is ecologically intact and therefore currently performing an important, irreplaceable function or ecosystem-wide process that would be damaged by human activity;

(ii) The shoreline is considered to represent ecosystems and geologic types that are of particular scientific and educational interest;

(iii) The shoreline is unable to support new development or uses without significant ecological impacts to ecological functions or risk to human safety; or

(iv) The shoreline is especially sensitive to human disturbance and important for the conservation and recovery of T&E species.

Such shoreline areas include largely undisturbed portions of shoreline areas such as wetlands, estuaries, unstable bluffs, coastal dunes, spits, and ecologically intact shoreline habitats. Shorelines inside or outside urban growth areas may be designated as "natural."

Local governments are encouraged to designate parallel environments as "natural" in order to achieve a higher level of protection for T&E species. For example, an undisturbed area between a shoreline and a roadway may be designated as "natural" even if the area landward of the roadway is no longer ecologically intact.

(b) **"Rural conservancy" environment criteria.**

Assign a "rural conservancy" environment designation to shoreline areas outside incorporated municipalities and outside urban growth areas, as defined by RCW 36.70A.110, if any of the following characteristics apply:

(i) The shoreline is currently supporting lesser-intensity, resource-based uses, such as agriculture, forestry, or recreational uses, or is designated agricultural or forest lands pursuant to RCW 36.70A.170;

(ii) The shoreline is currently accommodating residential uses outside urban growth areas and incorporated cities or towns;

(iii) The shoreline is supporting human uses but subject to environmental limitations, such as properties that include or are adjacent to steep banks, feeder bluffs, or flood plains or other flood-prone areas;

(iv) The shoreline is of high recreational value or with unique historic or cultural resources; or

(v) The shoreline has low-intensity water-dependent uses.

Areas designated in a local comprehensive plan as "rural areas of more intense development," as provided for in chapter 36.70A RCW, may be designated an alternate shoreline environment, provided it is consistent with the objectives of the Growth Management Act and this chapter. "Master planned resorts" as described in RCW 36.70A.360 may be designated an alternate shoreline environment, provided the applicable master program provisions do not allow significant ecological impacts.

Lands designated as "mineral resource lands" pursuant to RCW 36.70A.170 and WAC 365-190-070 may be assigned a subdesignation of "rural conservancy" environment that allows mineral extraction, provided the provisions for that designation conform to WAC 173-26-340 (3)(h) and this chapter and protect ecological functions.

(c) **"Aquatic" environment criteria.**

Assign an "aquatic" environment designation to lands waterward of the ordinary high-water mark. Additionally, local governments may assign an "aquatic" environment designation to wetlands.

(d) **"High-intensity" environment criteria.**

Assign a "high-intensity" environment designation to shoreline areas within incorporated municipalities, urban growth areas, and industrial or commercial "rural areas of more intense development," as described by RCW 36.70A.070, if they currently support or are suitable and planned for high-intensity water-dependent uses related to commerce, transportation, or navigation.

(e) **"Urban conservancy" environment criteria.**

Assign an "urban conservancy" environment designation to shoreline areas appropriate and planned for development that are not generally suitable for water-dependent uses and that lie in incorporated municipalities, urban growth areas, or commercial or industrial "rural areas of more intense development" if any of the following characteristics apply:

(i) They are suitable for a mix of water-related or water-enjoyment uses with other uses that allow a substantial number of people to enjoy the shoreline;

(ii) They are flood plains or other areas that should not be more intensively developed;

(iii) They have potential for ecological restoration;

(iv) They retain important ecological functions, even though partially developed; or

(v) They have the potential for development that incorporates ecological restoration. Lands designated as "mineral resource lands" pursuant to RCW 36.70A.170 and WAC 365-190-070 may be assigned a subdesignation of "urban conservancy" environment that allows mineral extraction, provided the provisions for that designation conform to WAC 173-26-340 (3)(h) and this chapter and protect ecological functions.

(f) **"Shoreline residential" environment criteria.**

Assign a "shoreline residential" environment designation to shoreline areas inside urban growth areas, as defined in RCW 36.70A.110, incorporated municipalities, "rural areas of more intense development," or "master planned resorts," as described in RCW 36.70A.360, if they are predominantly single-family or multifamily residential development or are planned and platted for residential development.

[Statutory Authority: RCW 90.58.060 and 90.58.200. 00-24-031 (Order 95-17a), § 173-26-310, filed 11/29/00, effective 12/30/00.]

WAC 173-26-320 General master program provisions. (1) Archaeological and historic resources.

(a) **Applicability.**

The following provisions apply to archaeological and historic resources that are either recorded at the State Historic

Preservation Office and/or by local jurisdictions or have been inadvertently uncovered. Archaeological sites located both in and outside shoreline jurisdiction are subject to chapter 27.44 RCW (Indian graves and records) and chapter 27.53 RCW (Archaeological sites and records) and shall comply with chapter 25-48 WAC as well as the provisions of this chapter.

(b) **Principles.**

Due to the limited and irreplaceable nature of the resource(s), prevent the destruction of or damage to any site having historic, cultural, scientific, or educational value as identified by the appropriate authorities including affected Indian tribes and the office of archaeology and historic preservation.

(c) **Standards.**

Local shoreline master programs shall include policies and regulations to protect historic, archaeological, and cultural features and qualities of shorelines and implement the following standards. A local government may reference historic inventories or regulations. Contact the office of archaeology and historic preservation and affected Indian tribes for additional information.

(i) Require that developers and property owners immediately stop work and notify the local government, the office of archaeology and historic preservation, and affected Indian tribes if anything of possible archaeological interest is uncovered during excavation.

(ii) Require that permits issued in areas documented to contain archaeological artifacts and data require a site inspection or evaluation by a professional archaeologist in coordination with affected Indian tribes.

(2) **Critical areas.**

(a) **Applicability.**

The provisions of this section shall apply to all critical areas, as defined by chapter 36.70A RCW that lie within shoreline jurisdiction. Implementation of RCW 90.58.020 includes the management of critical areas in the shoreline in order to protect human health and safety and the state's natural resources. RCW 36.70A.030 defines critical areas as stated below:

(5) "Critical areas" include the following areas and ecosystems:

(a) Wetlands;

(b) Areas with a critical recharging effect on aquifers used for potable waters;

(c) Fish and wildlife habitat conservation areas;

(d) Frequently flooded areas; and

(e) Geologically hazardous areas.

See WAC 365-190-080 for further definition of critical area categories and management policies.

(b) **Principles.**

Local master programs shall implement the following principles:

(i) Protect against adverse effects to the public health, the land and its vegetation and wildlife, and the waters of the state and their aquatic life. Promote and enhance the public interest by protecting and restoring ecological functions and ecosystem-wide processes. Take necessary measures to help attain the protection and restoration of T&E species.

(ii) In addressing issues related to critical areas, use scientific and technical information, as described in WAC 173-26-300 (2)(a), and include best available science, as provided for in chapter 36.70A RCW. When science is lacking, base decisions related to the protection of T&E species on an approach that minimizes risk to those species and places the highest priority on their protection and restoration.

(iii) Where necessary for the protection of the ecological functions of a critical area, including properly functioning condition for T&E species, review provisions outside the designated critical area pursuant to RCW 90.58.340.

(iv) In protecting and restoring critical areas within shoreline jurisdiction, integrate the full spectrum of planning and regulatory measures, including the comprehensive plan, interlocal watershed plans, local development regulations, and state, tribal, and federal programs. For shoreline areas affecting T&E species, make full use of such provisions to maintain or achieve properly functioning condition.

(v) The objective of shoreline management provisions for critical areas shall be the protection of existing ecological functions and ecosystem-wide processes and restoration of degraded areas to upgrade ecological functions and ecosystem-wide processes. Appropriate systems to address this goal include a littoral drift cell for marine waters or a watershed sub-basin for freshwaters. Local governments should accomplish this on a comprehensive basis, as described in WAC 173-26-300 (3)(d)(i), (e), (f) and (g).

(vi) Promote human uses and values, such as aesthetic values, provided they do not adversely impact ecological functions.

(vii) Implement, where applicable and consistent with the objectives of the Shoreline Management Act, the minimum guidelines in WAC 365-190-080.

(c) **Standards.**

Shoreline master programs shall adhere to the following standards, unless it is demonstrated through scientific and technical information and best available science that an alternative approach provides better resource protection. Provisions for frequently flooded areas are included in WAC 173-26-320(3). When preparing master program provisions for critical areas, local governments shall include best available science, as defined in RCW 36.70A.172(1), and use scientific and technical information, as provided for in WAC 173-26-300 (2)(a).

(i) **Wetlands.**

(A) **Wetland use regulations.**

Local governments should consult department's technical guidance documents on wetlands.

Use regulations shall address the following uses to achieve, at a minimum, no net loss of wetland area and functions, including lost time when the wetland does not perform the function:

- The removal, excavation, grading, or dredging of soil, sand, gravel, minerals, organic matter, or material of any kind;
- The dumping, discharging, or filling with any material, including discharges of storm water and domestic, commercial, or industrial wastewater;
- The draining, flooding, or disturbing of the water level, duration of inundation, or water table;

• The driving of pilings;

• The placing of obstructions;

• The construction, reconstruction, demolition, or expansion of any structure;

• Significant vegetation removal, provided that these activities are not part of a forest practice governed under chapter 76.09 RCW and its rules; or

• Other uses or development that results in a significant ecological impact to the physical, chemical, or biological characteristics of wetlands.

• Activities that may result in a change in the physical, biological, thermal, or chemical characteristics of wetland water sources that inhibit the protection and restoration of T&E species.

• Activities reducing the functions of buffers described in (D) of this subsection.

(B) **Wetland rating or categorization.**

Wetlands shall be categorized based on the rarity, irreplaceability, or sensitivity to disturbance of a wetland and the functions the wetland provides. Local governments should either use the Washington State Wetland Rating System, Eastern or Western Washington version as appropriate, or they should develop their own regionally specific, scientifically based method for categorizing wetlands. Wetlands should be categorized to reflect differences in wetland quality and function in order to tailor protection standards appropriately. Higher quality/functioning wetlands should receive higher levels of protection. Wetland classifications, together with protective standards, for the specific classifications shall be sufficient to protect or restore ecological functions and PFC for T&E species. A wetland categorization method is not a substitute for a function assessment method, where detailed information on wetland functions is needed.

(C) **Alterations to wetlands.**

Master program provisions addressing alterations to wetlands shall be consistent with the policy of no net loss of wetland area and functions, wetland rating, scientific and technical information, and the mitigation priority sequence defined in WAC 173-26-020.

(D) **Buffers.**

Master programs shall contain requirements for buffer zones around wetlands. Buffer requirements shall be adequate to ensure that wetland functions are protected and maintained in the long-term. Requirements for buffer zone widths and management shall take into account the ecological functions of the wetland, the characteristics and setting of the buffer, the potential impacts associated with the adjacent land use, and other relevant factors.

(E) **Mitigation.**

Master programs shall contain wetland mitigation requirements that are consistent with the definition of mitigation in WAC 173-26-020 and which are based on the wetland rating.

(F) **Compensatory mitigation.**

Compensatory mitigation shall be allowed only after mitigation sequencing is applied.

Requirements for compensatory mitigation must include provisions for:

(I) Mitigation replacement ratios or a similar method of addressing the following:

• The risk of failure of the compensatory mitigation action;

• The length of time it will take the compensatory mitigation action to adequately replace the impacted wetland functions; and

• The gain or loss of the type, quality and quantity of the ecological functions of the compensation wetland as compared with the impacted wetland.

(II) Establishment of performance standards for evaluating the success of compensatory mitigation actions;

(III) Establishment of long-term monitoring and reporting procedures to determine if performance standards are met; and

(IV) Establishment of long-term protection and management of compensatory mitigation sites.

Unless it is demonstrated that a higher level of ecological functions contributing to PFC for T&E species would result from an alternate approach, compensatory mitigation for ecological functions necessary for PFC for T&E species must be either in kind and on-site, or in kind and within the same stream reach or drift cell. Compensatory mitigation for functions necessary for PFC for T&E species must be in place, with an approved performance monitoring program, prior to the authorized impacts occurring.

Credits from a state certified mitigation bank may be used to compensate for unavoidable impacts, in accordance with chapter 90.84 RCW and chapter 173-700 WAC, provided that the provisions of this section, compensatory mitigation are met.

(ii) **Geologically hazardous areas.**

Restrict new development in geologically hazardous areas. Consult minimum guidelines for geologically hazardous areas, WAC 365-190-080(4).

Do not allow new development or the creation of new lots that would cause foreseeable risk from geological conditions to people or ecological functions during the life of the development. Allow development on or adjacent to a geologically hazardous area only if the results of a geotechnical report indicate that such development is safe and will not require shoreline stabilization or channel modification. Allowable development must incorporate adequate drainage control to prevent erosion or significant ecological impacts.

Do not allow new development that would require structural shoreline stabilization over the life of the development. Exceptions may be made for the limited instances where stabilization is necessary to protect allowed water-dependent uses where no alternative locations are available and significant ecological impacts are mitigated. The stabilization measures shall conform to WAC 173-26-330.

(iii) **Critical saltwater habitats and shorelands associated with marine waters and estuaries.**

(A) **Applicability.**

Critical saltwater habitats include all kelp beds, eelgrass beds, spawning and holding areas for forage fish, such as herring, smelt, and sandlance, commercial and recreational shellfish beds, mudflats, intertidal habitats with vascular plants, and areas with which priority species have a primary association. Critical saltwater habitats require a higher level of protection due to the important ecological functions and contribution to properly functioning condition they provide.

Ecological functions of marine shorelands can affect the viability of critical saltwater habitats. Therefore, effective protection and restoration of critical saltwater habitats should integrate management of shorelands as well as submerged areas.

(B) **Principles.**

Master programs shall implement saltwater habitat management planning to protect and restore critical saltwater habitats and properly functioning condition for T&E species by establishing coordinated master program policies and regulations. Local governments shall review relevant comprehensive plan policies and development regulations for shorelands and adjacent lands to achieve consistency as directed in RCW 90.58.340. The management planning shall incorporate the participation of state resource agencies and affected Indian tribes and serve as the basis for master program provisions. Local governments should base management planning on information provided by state resource agencies and affected Indian tribes unless they demonstrate that they possess more accurate and reliable information.

The management planning shall include an evaluation of current data and trends regarding the following:

- Available inventory and collection of necessary data regarding physical characteristics of the habitat, including upland conditions, and any information on species population trends;
- Terrestrial and aquatic vegetation;
- The level of human activity in such areas, including the presence of roads and level of recreational types (passive or active recreation may be appropriate for certain areas and habitats);
- Restoration potential;
- Tributaries and small streams flowing into marine waters;
- Dock and bulkhead construction, including an inventory of bulkheads serving no protective purpose;
- Conditions and ecological functions in the near-shore area;
- Uses surrounding the critical saltwater habitat areas that may negatively impact those areas, including permanent or occasional upland, beach, or over-water uses; and
- An analysis of what data gaps exist and a strategy for gaining this information.

The management planning shall address the following, where applicable:

- Protecting a system of fish and wildlife habitats with connections between larger habitat blocks and open spaces and restoring such habitats and connections where they are degraded;
- Protecting existing and restoring degraded riparian and estuarine ecosystems, especially salt marsh habitats;
- Establishing adequate buffer zones around these areas to separate incompatible uses from the habitat areas;
- Protecting existing and restoring degraded near-shore habitat;
- Protecting existing and restoring degraded or lost salmonid habitat;
- Protecting existing and restoring degraded upland ecological functions important to critical saltwater habitats, including riparian vegetation;
- Improving water quality;
- Protecting existing and restoring degraded sediment inflow and transport regimens; and
- Correcting activities that cause excessive sediment input where human activity has led to mass wasting.

Local governments, in conjunction with state resource agencies and affected Indian tribes, shall classify critical saltwater habitats and protect and restore seasonal ranges and habitat elements with which federal- and state-listed endangered, threatened, and priority species have a primary association.

Local governments, in conjunction with state resource agencies and affected Indian tribes, should determine which habitats and species are of local importance.

All public and private tidelands or bedlands suitable for shellfish harvest shall be classified as critical areas. Local governments should consider both commercial and recreational shellfish areas. Local governments should review the Washington department of health classification of commercial and recreational shellfish growing areas to determine the existing condition of these areas. Further consideration should be given to the vulnerability of these areas to contamination or potential for recovery. Shellfish protection districts established pursuant to chapter 90.72 RCW shall be included in the classification of critical shellfish areas. Local governments shall classify kelp and eelgrass beds identified by the department of natural resources' aquatic lands division, the department, and affected Indian tribes as critical saltwater habitats.

Comprehensive saltwater habitat management planning shall identify methods for monitoring conditions and adapting management practices to new information.

(C) **Standards.**

Docks, bulkheads, bridges, fill, floats, jetties, utility crossings, and other human-made structures shall not intrude into or over critical saltwater habitats except as a conditional use for a water-dependent use or ecological restoration and when all of the conditions below are met:

- PFC for T&E species is protected or restored as determined in consultation with natural resource agencies and affected Indian tribes. The proponent of a structure over critical saltwater habitat must demonstrate that there will be no loss of ecological functions provided by the habitat and no threat to human health or safety upon completion of the project. The analysis demonstrating no loss must account for potential cumulative impacts and risks to the environment resulting from the proposed action;
- The public's need for such an action or structure is clearly demonstrated and the proposal is consistent with protection of the public trust, as embodied in RCW 90.58.020;
- Avoidance of impacts to critical saltwater habitats by an alternative alignment or location is not feasible;
- The project is designed to minimize its impacts on critical saltwater habitats and the environment;
- Significant ecological impacts will be mitigated through the mitigation sequence described in WAC 173-26-020; and
- The project is consistent with the state's interest in resource protection and species recovery.

Until an inventory of critical saltwater habitat has been done, shoreline master programs shall condition all over-water and near-shore developments with the requirement for an inventory of the site and adjacent beach sections to assess the presence of critical saltwater habitats and functions. The methods and extent of the inventory shall be consistent with accepted research methodology. At a minimum, local governments should consult with department technical assistance materials for guidance.

(iv) **Critical freshwater habitats, including riverine corridors and other freshwater fish and wildlife conservation areas.**

(A) **Applicability.**

The following applies to master program provisions and shoreline management activities within shoreline jurisdiction affecting critical freshwater habitats, including streams, rivers, wetlands, and lakes, their associated channel migration zones, and flood plains.

(B) **Principles.**

Many ecological functions, including PFC for T&E species, of riverine corridors depend both on the continuity of the natural environment along the length of the shoreline and on the conditions of the surrounding lands on either side of the river channel. Significant damage to the environment, such as a polluting outfall, vegetation loss, or imperviousness within the watershed, can destroy ecological functions downstream. Likewise, gradual destruction or loss of the vegetation along the corridor or extensive flood plain development can raise water temperatures and alter hydrographic conditions, thereby making the corridor uninhabitable for priority species and susceptible to catastrophic flooding, droughts, and landslides. These conditions can also threaten human health, safety, and property. Therefore, effective management of riverine corridors depends on:

(I) Planning, protecting, and restoring the length of the corridor from river headwaters to the mouth; and

(II) Conservatively regulating the uses within shoreline jurisdiction, the stream channel, associated channel migration zone, wetlands, and the flood plain. Water quality and hydrological processes also depend upon subsurface flows through the adjacent hyporheic zone, surface water run-off, and ground water in lands outside the flood plain. For this reason, comprehensive watershed efforts are the most effective approach to corridor management.

Recognizing that long stretches of riverine shorelines have been altered or degraded from their natural condition, effective riverine management usually requires a two-part strategy of:

- Preventing damage to riverine shoreline areas that retain their ecological functions; and
- Restoring degraded riverine shoreline areas whenever feasible. Redevelopment activities along shorelines provide opportunities to achieve setbacks and ecological restoration.

Local governments shall base master program provisions for critical freshwater conservation areas on a comprehensive approach, as described in WAC 173-26-300 (3)(d)(i), (e), (f) and (g). As part of this comprehensive approach, local governments shall integrate categories of master program provisions, including those for shoreline stabilization, fill, vegetation conservation, water quality, flood hazard reduction, and specific uses, to protect human health and safety and to protect and restore the corridor's ecological functions and ecosystem-wide processes.

Applicable master programs shall contain provisions to protect and restore hydrologic connections between water bodies, water courses, and associated wetlands. For example, master programs should require that dikes, roads, or other structures, when allowed, be constructed or refitted to allow the unrestricted natural flow of water between dry or braided channels, associated wetlands, the main river channel, and associated water bodies. Incentives should be provided to restore water connections that have been impeded by previous development.

Master program provisions for riverine corridors shall, where applicable, be based on the information from comprehensive watershed management planning, as indicated in WAC 173-26-300 (3)(c) and (d).

A natural channel configuration with features such as pools, off-channel habitat, vegetation, and refugia is especially important to T&E species. These habitat features depend upon natural channel formation, natural flood plain function, and unrestricted channel movement within the channel migration zone. Therefore, applicable master programs shall include provisions that prevent restrictions to channel movement within the channel migration zone and that contribute to achieving more natural channel characteristics on a comprehensive basis over time.

(C) **Standards.**

New structures, flood control measures, structural shoreline stabilization measures, significant vegetation removal, reconfiguration of the channel bed and associated areas, and other new shoreline modifications that affect natural channel movement or natural flood plain function shall not be allowed within a stream's channel migration zone if they would adversely affect PFC for T&E species or cause significant ecological impacts. However, the following development and uses may be allowed:

- Protection and restoration actions that increase the ecosystem-wide processes or ecological functions toward more properly functioning condition.
- Forest practices in compliance with the Washington State Forest Practices Act and its implementing rules and RCW 90.58.150, where applicable.
- Existing and ongoing agricultural practices, provided that no new structures, flood control measures, or restrictions to channel movement occur and there is no clearing and grading within the channel migration zone.
- Bridges, utility lines, and other public utility and transportation structures where no other feasible alternative exists. Where such structures are allowed, mitigation shall be required that protects or restores impacted functions and processes in the affected portion of the watershed.
- Repair and maintenance of an existing legal use, provided that such actions do not create significant ecological impacts or adversely affect T&E species.
- Development on a previously altered site where it is demonstrated that the development restores ecological functions and processes of the applicable portion of the watershed to a more natural condition.

• Development consistent with special area planning as described in WAC 173-26-300 (3)(d)(x) for a riverine corridor that is directed toward protecting and restoring properly functioning condition for priority species and habitats on a comprehensive basis.

• Modifications or additions to an existing legal development, provided that channel migration is not further limited and that the new development includes appropriate ecological restoration of properly functioning condition.

• New development in incorporated municipalities and designated urban growth areas, as defined in chapter 36.70A RCW, where existing human-made structures prevent active channel movement. In this exception, the new development must not adversely affect hydrological conditions and must include where otherwise required under the provisions of this chapter appropriate restoration which contributes to the attainment of properly functioning condition.

• Measures to reduce shoreline erosion, provided that it is demonstrated that the erosion rate exceeds that which would normally occur in a natural condition, that the measure does not interfere with fluvial hydrological and geomorphological processes normally acting in natural conditions, and that the measure increases PFC for T&E species associated with the river or stream. It is the intent of this provision to allow measures that protect property at the same time as restoring ecosystem-wide processes and PFC for T&E species where scientific and technical information demonstrate that this may be accomplished.

Do not allow the creation of new lots that would require development in the CMZ in order to achieve a viable use.

(3) **Flood hazard reduction.**

(a) **Applicability.**

The following provisions apply to actions taken to reduce flood damage or hazard and to uses, development, and shoreline modifications that may increase flood hazards. Flood hazard reduction measures may consist of nonstructural measures, such as setbacks, land use controls, wetland restoration, dike removal, use relocation, biotechnical measures, and storm water management programs, and of structural measures, such as dikes, levees, revetments, floodwalls, channel realignment, and elevation of structures consistent with the National Flood Insurance Program. Additional relevant critical area provisions are in WAC 173-26-320(2).

(b) **Principles.**

Flooding of rivers, streams, and other shorelines is a natural process that is affected by factors and land uses occurring throughout the watershed. Past land use practices have disrupted hydrological processes and increased the rate and volume of runoff, thereby exacerbating flood hazards and reducing ecological functions. Flood hazard reduction measures are most effective when integrated into comprehensive strategies that recognize the natural hydrogeological and biological processes of water bodies. Over the long term, the most effective means of flood hazard reduction is to prevent or remove development in flood-prone areas, to manage storm water within the flood plain, and to maintain or restore the riverine system's natural hydrological and geomorphological processes.

Structural flood hazard reduction measures, such as diking, even if effective in reducing inundation in a portion of the watershed, can intensify flooding elsewhere. Moreover, structural flood hazard reduction measures can damage ecological functions crucial to fish and wildlife species, bank stability, and water quality. Therefore, structural flood hazard reduction measures shall be avoided whenever possible. When necessary, they shall be accomplished in a manner to minimize change to shoreline ecological functions and ecosystem-wide processes. In such cases, set-back levees shall be preferred over levees located near the floodway.

Master programs shall implement the following principles:

(i) Where feasible, give preference to nonstructural flood hazard reduction measures over structural measures. For example, setback or relocation of structures is generally preferred over new dikes or seawalls.

(ii) Base shoreline master program flood hazard reduction provisions on applicable watershed management plans, comprehensive flood hazard management plans, and other comprehensive planning efforts, provided those measures are consistent with the Shoreline Management Act and this chapter.

(iii) Integrate, when consistent with principles in this section, other regulations and programs associated with flood hazard reduction, including (if applicable):

• Storm water management plans;

• Flood plain regulations, as provided for in chapter 86.16 RCW;

• Critical area ordinances and comprehensive plans, as provided in chapter 36.70A RCW; and the

• National Flood Insurance Program.

(iv) Protect and restore the ecological functions while reducing risk to human safety and property. When preparing master program provisions for flood hazard reduction measures, address the protection and restoration of ecological functions and ecosystem-wide processes on a comprehensive basis consistent with WAC 173-26-300 (3)(d)(i), (e), (f), and (g) and 173-26-320 (2)(iv).

(v) Implement management efforts to return riverine corridors to more natural hydrological conditions that maintain properly functioning condition. Recognize that seasonal flooding is an essential natural process.

(vi) When evaluating alternate flood control measures, consider the removal or relocation of structures in flood-prone areas.

(c) **Standards.**

Master programs shall implement the following standards within shoreline jurisdiction:

(i) Do not allow new development that significantly or cumulatively increases flood hazard or that is inconsistent with a comprehensive flood hazard management plan adopted pursuant to chapter 86.12 RCW, provided the plan has been adopted after 1994 and approved by the department. Do not allow new development or new uses in shoreline jurisdiction, including the subdivision of land, that will require structural flood hazard reduction measures within the channel migration zone, except water-dependent uses in the "high-intensity" environment.

(ii) Allow new structural flood hazard reduction measures in shoreline jurisdiction only when it can be demonstrated by a scientific and engineering analysis that they are

necessary to protect existing development, that nonstructural measures are not feasible, that impacts to the existing shoreline functions and priority species and habitats can be successfully mitigated, and that vegetation conservation actions are undertaken consistent with WAC 173-26-320(5). In such cases, structural flood hazard reduction measures must be set back as far as feasible from the channel migration zone.

Structural flood hazard reduction measures shall be consistent with an adopted comprehensive flood hazard management plan approved by the department that evaluates cumulative impacts to the watershed system and effects on properly functioning condition for T&E species.

(iii) Require that all new structural flood hazard reduction measures and improvements to existing structures that cause significant ecological impacts include measures to restore ecological functions.

(iv) Place new structural flood hazard reduction measures landward of the floodway, channel migration zone, associated wetlands, and associated vegetation conservation areas, except for actions that increase ecological functions, such as wetland restoration or as noted below. Consult with Washington's department of fish and wildlife and affected Indian tribes with respect to ecological restoration measures.

Exception: Flood hazard reduction projects as described in this section may occur in a channel migration zone only if it is determined that no other alternative to reduce flood hazard to existing development is feasible. The need for structural improvements in the channel migration zone shall be documented through a geotechnical analysis. If the geotechnical analysis demonstrates a need for the structural measure, assess and mitigate impacts to priority species through a habitat evaluation and application of mitigation sequencing.

(v) Require that new structural public flood hazard reduction measures, such as dikes and levees, dedicate and improve public access pathways unless public access improvements would cause unavoidable health or safety hazards to the public, inherent and unavoidable security problems, unacceptable and unmitigable significant ecological impacts, degradation of properly functioning condition, unavoidable conflict with the proposed use, or a cost that is disproportionate and unreasonable to the total long-term cost of the development.

(vi) Require that the removal of gravel for flood management purposes be phased out consistent with an adopted flood hazard reduction plan and with this chapter and allowed in the near term only after a biological and geomorphological study shows that extraction does not adversely impact priority species and priority habitats.

(vii) Require shoreline permit applications for structural flood control projects to include the following information unless the proposed projects are consistent with standards set in a comprehensive flood hazard management plan:

(A) River channel hydraulics and floodway characteristics up and downstream from the project;

(B) Existing shoreline stabilization and flood protection works within the affected area;

(C) Physical, geological, and soil characteristics of the affected area;

(D) Biological resources and predicted impact to fish, vegetation, and animal habitat associated with shoreline ecological systems;

(E) Predicted impact upon shore and hydraulic processes, adjacent properties, and shoreline and water uses;

(F) Analysis of alternative flood protection measures, both structural and nonstructural;

(G) Within the local governments shoreline jurisdiction approximate percentage of the flood plain that is already uncoupled from the river corridor; and

(H) Approximate percentage of stream channel that is currently prevented from meandering within the local governments shoreline jurisdiction.

(4) **Public access.**

(a) **Applicability.**

Public access includes the ability of the general public to reach, touch, and enjoy the water's edge, to travel on the waters of the state, and to view the water and the shoreline from adjacent locations. Public access provisions below apply to all shorelines of the state unless stated otherwise.

(b) **Principles.**

Local master programs shall:

(i) Promote and enhance the public interest with regard to rights to access waters held in public trust by the state while protecting private property rights and public safety.

(ii) Protect the rights of navigation and space necessary for water-dependent uses.

(iii) To the greatest extent feasible consistent with the overall best interest of the state and the people generally, protect the public's opportunity to enjoy the physical and aesthetic qualities of shorelines of the state, including views of the water.

(iv) Regulate the design, construction, and operation of permitted uses in the shorelines of the state to minimize, insofar as practical, interference with the public's use of the water.

(c) **Planning process to address public access.**

Local governments should plan for an integrated shoreline area public access system that identifies specific public needs and opportunities to provide public access. Such a system can often be more effective and economical than applying uniform public access requirements to all development. This planning should be integrated with other relevant comprehensive plan elements, especially transportation and recreation.

Where a port district or other public entity has incorporated public access planning into its master plan through an open public process, that plan may serve as a portion of the local government's public access planning, provided it meets the provisions of this chapter. The planning may also justify more flexible off-site or special area public access provisions in the master program. Public participation requirements in WAC 173-26-300 (3)(b)(i) apply to public access planning.

At a minimum, the public access planning should result in public access requirements for shoreline permits, recommended projects, port master plans, and/or actions to be taken to develop public shoreline access to shorelines on public property. The planning should identify a variety of shoreline access opportunities and circulation for pedestrians—including disabled persons—bicycles, and vehicles between shore-

line access points, consistent with other comprehensive plan elements.

(d) **Standards.**

Shoreline master programs shall implement the following standards:

(i) Based on the public access planning described in (c) of this subsection, establish policies and regulations that protect and enhance both physical and visual public access. The master program shall address public access on public lands. The master program should seek to increase the amount and diversity of public access to the state's shorelines consistent with the natural shoreline character, property rights, public rights under the Public Trust Doctrine, and public safety.

(ii) Require that shoreline development by public entities, including local governments, port districts, state agencies, and public utility districts, include public access measures as part of each development project, unless such access is shown to be incompatible due to reasons of safety, security, or impact to the shoreline environment. Where public access planning as described in WAC 173-26-320 (4)(c) demonstrates that a more effective public access system can be achieved through alternate means, such as focusing public access at the most desirable locations, local governments may institute master program provisions for public access based on that approach in lieu of uniform site-by-site public access requirements.

(iii) Provide standards for the dedication and improvement of public access in developments for water-enjoyment, water-related, and nonwater-dependent uses and for the subdivision of land into more than four parcels. In these cases, public access should be required except:

(A) Where the local government provides more effective public access through a public access planning process described in WAC 173-26-320 (4)(c); or

(B) Where it is demonstrated to be infeasible due to reasons of incompatible uses, safety, security, or impact to the shoreline environment.

In determining the infeasibility, undesirability, or incompatibility of public access in a given situation, local governments shall consider alternate methods of providing public access, such as off-site improvements, viewing platforms, separation of uses through site planning and design, and restricting hours of public access.

(C) For individual single-family residences not part of a development planned for more than four parcels.

(iv) Adopt provisions, such as maximum height limits, setbacks, and view corridors, to minimize the impacts to existing views from public property or substantial numbers of residences. Where there is an irreconcilable conflict between water-dependent shoreline uses or physical public access and maintenance of views from adjacent properties, the water-dependent uses and physical public access shall have priority, unless there is a compelling reason to the contrary.

(v) Do not allow public access improvements that would cause significant ecological impacts to shoreline ecological functions that cannot be mitigated. Require that public access improvements with the potential to degrade ecological functions be designed to minimize adverse impacts.

(5) **Shoreline vegetation conservation.**

(a) **Applicability.**

Vegetation conservation includes activities to protect and restore vegetation along or near marine and freshwater shorelines that contribute to the ecological functions of shoreline areas. Vegetation conservation provisions include the prevention or restriction of plant clearing and earth grading, vegetation restoration, and the control of invasive weeds and nonnative species detrimental to PFC for T&E plant and animal species.

Unless otherwise stated, vegetation conservation does not include those activities covered under the Washington State Forest Practices Act, except for conversion to other uses and those activities over which local governments have authority.

As with all master program provisions, vegetation conservation provisions apply even to those shoreline uses and developments that are exempt from the requirement to obtain a permit. Like other master program provisions, vegetation conservation standards do not apply retroactively to existing uses and structures, such as existing agricultural practices. However, local master programs shall implement vegetation restoration objectives to help attain PFC for T&E species. Vegetation conservation for aquatic plants is covered in WAC 173-26-320 (2)(c)(iii).

(b) **Principles.**

Vegetation conservation along shorelines is critical to protect aquatic resources, including many priority species and their critical habitat. The intent of vegetation conservation is to protect existing and restore degraded habitat so as to contribute to ecological functions, including PFC, and ecosystem-wide processes performed by vegetation along shorelines. Vegetation conservation should also be undertaken to protect human safety and property, to increase the stability of river banks and coastal bluffs, to reduce the need for structural shoreline stabilization measures, to improve the visual and aesthetic qualities of the shoreline, to protect plant and animal species and their habitats, and to enhance shoreline uses.

Master programs shall include provisions to protect and restore vegetation needed to sustain the ecological functions and ecosystem-wide processes, to avoid adverse impacts to soil hydrology, and to reduce the hazard of slope failures or accelerated erosion.

In ecologically degraded areas, master program provisions shall contribute to the restoration of properly functioning condition and other ecological processes and functions provided by vegetation as development or redevelopment occurs. Master programs should be directed toward achieving the vegetation characteristics described in *Management Recommendations for Washington's Priority Habitats*, prepared by the Washington state department of fish and wildlife.

Local governments shall address properly functioning condition and other ecological functions and ecosystem-wide processes provided by vegetation as described in WAC 173-26-300 (3)(d)(i), (e), (f), and (g).

Local governments may implement objectives through a variety of measures, where consistent with Shoreline Management Act policy, including: clearing and grading regulations, setback and buffer standards, critical area regulations, conditional use requirements for specific uses or areas, and mitigation requirements.

In establishing vegetation conservation regulations, local governments must use all available scientific and technical information, as described in WAC 173-26-300 (2)(a). At a minimum, local governments should consult shoreline management assistance materials provided by the department.

(c) **Relationship of shoreline vegetation to ecological functions.**

Current scientific evidence indicates that the length, width, and species composition of a shoreline vegetation community contribute substantively to the aquatic ecological functions. Likewise, the biota within the aquatic environment is essential to ecological functions of the adjacent upland vegetation.

In the Pacific Northwest, aquatic environments, as well as their associated upland vegetation and wetlands, provide significant habitat for a myriad of fish and wildlife species. Properly functioning condition for aquatic species is inseparably linked with the ecological integrity of the surrounding terrestrial ecosystem. For example, except for arid conditions, a nearly continuous corridor of mature, conifer-dominated forests characterizes the natural riparian conditions of the Pacific Northwest. Riparian corridors along marine shorelines provide many of the same functions as their freshwater counterparts. The most commonly recognized functions of the shoreline vegetation include, but are not limited to:

- Providing shade necessary to maintain the cool temperatures required by salmonids, spawning forage fish, and other aquatic biota.
- Providing organic inputs critical for aquatic life.
- Providing food in the form of various insects and other benthic macroinvertebrates.
- Stabilizing banks, minimizing erosion, and reducing the occurrence of landslides. The roots of trees and other riparian vegetation provide the bulk of this function.
- Reducing fine sediment input into the aquatic environment through storm water retention and vegetative filtering.
- Filtering and vegetative uptake of nutrients and pollutants from ground water and surface runoff.
- Providing a source of large woody debris into the aquatic system. Large woody debris is the primary structural element that functions as a hydraulic roughness element to moderate flows. Large woody debris also serves a pool-forming function, providing critical salmonid rearing and refuge habitat. Abundant large woody debris increases aquatic diversity and stabilization.
- Regulation of microclimate in the stream-riparian and intertidal corridors.
- Providing critical wildlife habitat, including migration corridors and feeding, watering, rearing, and refugia areas.
- Providing habitat for T&E plant species.

The ability of vegetated areas to contribute to properly functioning condition and other critical ecological functions diminishes as the length and width of the vegetated area along shorelines is reduced. Many ecological functions will not be performed when shoreline vegetation is removed. The smaller the area of remaining vegetation, the greater the reduction of properly functioning condition and other critical functions.

Sustaining different individual functions requires different widths of vegetation. The importance of the different functions, in turn, varies with the type of shoreline setting. For example, in forested shoreline settings, periodic recruitment of fallen trees, especially conifers, into the stream channel is an important attribute, critical to natural stream channel maintenance. Therefore, vegetated areas along streams which once supported or could in the future support mature trees should be wide enough to accomplish this periodic recruitment process.

For riverine shoreline environments where trees naturally grow, achieving the full suite of vegetation-related shoreline functions is related to a vegetated area of one mature site potential tree height in width, measured perpendicular from bank full width or outer edge of the channel migration zone. Absent a channel migration zone, bank full width is used as the reference point because it usually corresponds to the top of the bank nearest the stream or river channel that supports mature tree growth.

For marine shorelines where trees naturally grow, achieving the full suite of vegetation-related shoreline functions is related to approximately one half the height of a mature native tree measured from ordinary high-water mark.

Woody vegetation normally classed as trees may not be a natural component of plant communities in some environments, such as in arid climates and on coastal dunes. In these instances, the width of a vegetated area necessary to achieve the full suite of vegetation-related shoreline functions may not be related to vegetation height.

Local governments shall work with resource agencies and affected Indian tribes to identify ecological processes and functions important to the local aquatic and terrestrial ecology and conserve sufficient vegetation to protect, restore, and maintain them.

In addressing the restoration of degraded shorelines, local governments shall develop provisions to ensure that required vegetated areas are large enough to help attain properly functioning condition for T&E species and ecological benefits, even if they are not sufficiently wide to achieve all ecological functions.

(d) **Standards.**

Master programs shall implement the following requirements in shoreline jurisdiction.

(i) Do not allow significant vegetation removal that would likely result in soil erosion or in the need for structural shoreline stabilization measures as described in WAC 173-26-330 (3)(a).

(ii) Establish vegetation conservation standards that implement the principles in WAC 173-26-320 (5)(b) and (c). Methods to do this may include setback or buffer requirements, clearing and grading standards, native vegetation retention standards, environment designation standards, or other master program provisions.

(iii) Additional vegetation conservation standards for specific uses are included in WAC 173-26-340(3).

(iv) Notwithstanding other provisions of this chapter, for shorelines that affect T&E species, the following will apply.

Master programs shall include vegetation conservation provisions to provide the ecological functions necessary to the survival and recovery of T&E species. As part of the eco-

system characterization described in WAC 173-26-300 (3)(d)(i) and using scientific and technical information, local governments shall establish provisions to protect and restore vegetation-related functions affecting PFC. Local governments shall institute protective setbacks, buffers, standards for retention or restoration of native species, clearing restrictions, and/or other provisions to ensure that those functions are provided. At a minimum, local governments shall address the following functions unless they are shown to be not applicable for a particular shoreline: Natural channel stability, water quality, hydrographic response, large woody debris recruitment, water temperature (shading), nutrient and sediment filtering, and food production.

In the absence of more detailed or current scientific and technical information or specific ecological analysis of local conditions, master programs shall contain provisions to conserve the vegetation necessary to maintain or restore PFC for T&E species within the following vegetation conservation areas within shoreline jurisdiction, including all environment designations:

- For riverine shorelines where trees naturally grow: One site potential tree height measured perpendicular from the channel migration zone or, absent a channel migration zone, bank full width.
- For shorelines where trees do not naturally grow, such as arid areas: Sixty feet, measured perpendicularly, from the channel migration zone or bank full width for riverine shorelines without a channel migration zone.
- For marine and lacustrine shorelines where trees naturally grow: One-half site potential tree height or one hundred feet, whichever is greater, measured perpendicular from the ordinary high-water mark.

If conditions for tree blowdown occur, local governments should include a wider vegetation conservation area, if necessary, to reduce the probability of wind or erosion downing trees.

Master programs shall include provisions to implement the following minimum standards within the areas described above except as noted.

- In the "natural" environment or where criteria for the "natural" environment in WAC 173-26-310(5) apply, allow no significant vegetation removal that reduces PFC or hampers the achievement of PFC for T&E species. For activities conducted under the Washington State Forest Practices Act, conform to the provisions of that act.
- In the "rural conservancy" environment or where criteria for the "rural conservancy" environment in WAC 173-26-310(5) apply, allow no reduction in PFC resulting from vegetation removal. Allow no significant vegetation removal except as demonstrated to be necessary for an allowed development. Where possible, locate new development or clearing and grading outside the vegetation conservation areas described above. If vegetation is removed as part of an allowed development, require restoration with native shoreline vegetation to provide at least an equal degree of PFC. The proponent for such development must demonstrate that the PFC is maintained or restored, taking into account the time lost for revegetation and risks to the environment. The intent of this provision is to allow limited development away from the shoreline if PFC is maintained or enhanced.

For activities conducted under the Washington State Forest Practices Act, conform to the provisions of that act.

- In the "high-intensity" environment or where criteria for the "high-intensity" environment in WAC 173-26-310(5) apply, allow no significant removal of existing native vegetation except for water-dependent uses. Require protection of existing native vegetation or restoration of degraded areas in portions of the site that are not occupied by structures necessary for the use. Because of the importance of shoreline vegetation to PFC, even in intensely developed urban settings, master programs shall implement the vegetation conservation principles described in (b) and (c) of this subsection through a restoration strategy based on the ecological characterization and analysis described in WAC 173-26-300 (3)(d)(i). The strategy shall give special emphasis to those functions necessary to PFC for T&E species within the particular reach of the shoreline.
- In the "urban conservancy" environment or where criteria for the "urban conservancy" environment in WAC 173-26-310(5) apply, require that new development for nonwater-dependent uses on degraded sites include the restoration of native shoreline vegetation. As a general rule, provide the maximum natural vegetation strip feasible along the shoreline. Mitigate impacts from water-dependent development according to the mitigation sequence described in WAC 173-26-020.
- In the "shoreline residential" environment or where criteria for the "shoreline residential" environment in WAC 173-26-310(5) apply, avoid or, if that is not possible, minimize significant vegetation removal as provided for in the provisions for residential areas, below.
- For properties within areas planned for residential development within the "rural conservancy," "urban conservancy," or "shoreline residential" environments, do not allow new development that will have significant ecological impacts to PFC for T&E species, and restrict significant vegetation removal to the minimum necessary to accommodate permitted primary residential structures. Where the dimensions of existing lots or parcels are not sufficient to accommodate permitted primary residential structures outside of the vegetation conservation area, apply the mitigation sequence in WAC 173-26-020 to minimize ecological impacts. Generally, this will mean placing the development away from the shoreline as far as possible, locating the development to avoid tree cutting, and modifying building dimensions to reduce vegetation removal. Do not allow the removal of native vegetation for replacement with lawn or nonnative plant materials.

For shoreline properties with existing residential uses located within a vegetation conservation area, do not allow new development, building additions, or significant vegetation removal that would cause significant ecological impacts to PFC for T&E species. Reconstruction of or additions to buildings within an existing building footprint or paved area may be allowed. New development associated with existing residences may be allowed landward of an existing structure or if native vegetation is enhanced where vegetation has been degraded.

The minimum standards may be altered where it is demonstrated through scientific and technical information that

certain vegetation functions are not important for properly functioning condition or where the functions are provided by other means. In these cases, the vegetation conservation provisions do not need to address this function. Local governments are encouraged to consult with technical assistance materials provided by the department in determining the extent of vegetation conservation provisions.

Development may be allowed within the minimum vegetation conservation areas described above, provided that vegetation-related ecological functions necessary for T&E species are not diminished and other provisions of this chapter are met.

The department will only approve vegetation conservation provisions if the department determines that the provisions will, over the long term, restore properly functioning condition.

(v) For residential and other nonwater-dependent uses, do not allow the creation of lots that will require significant vegetation removal in order to be developed for the use allowed by the local government's development regulations. That is, make sure that each lot is large enough to allow development without significant vegetation removal that reduces properly functioning condition or other ecological functions.

(6) **Water quality, storm water, and nonpoint pollution.**

(a) **Applicability.**

The following section applies to all development and uses in shoreline jurisdiction that affect water quality, as defined in WAC 173-26-020.

(b) **Principles.**

Shoreline master programs shall, as stated in RCW 90.58.020, protect against adverse impacts to the public health, to the land and its vegetation and wildlife, and to the waters of the state and their aquatic life, through implementation of the following principles:

(i) Prevent impacts to water quality and storm water quantity that significantly reduce properly functioning condition and other shoreline ecological functions, aesthetic qualities, or recreational opportunities.

(ii) Ensure mutual consistency between shoreline management provisions and other regulations that address water quality and storm water quantity, including public health, storm water, and water discharge standards. The regulations that are most protective of ecological functions shall apply.

(c) **Standards.**

(i) Shoreline master programs shall include provisions to ensure that new development within shoreline jurisdiction does not cause significant ecological impacts by altering water quality, quantity, or flow characteristics.

(ii) Shoreline master programs for jurisdictions with T&E species shall include a policy that land use and storm water run-off policies and regulations shall maintain or contribute to the attainment of PFC for those species, including ground water recharge and hydrological base flow considerations.

(iii) Shoreline master programs shall also include standards to ensure that storm water outfalls do not adversely affect PFC.

[Statutory Authority: RCW 90.58.060 and 90.58.200. 00-24-031 (Order 95-17a), § 173-26-320, filed 11/29/00, effective 12/30/00.]

WAC 173-26-330 Shoreline modifications. (1) Applicability.

Local governments are encouraged to prepare master program provisions that distinguish between shoreline modifications and shoreline uses. Shoreline modifications are generally related to construction of a physical element such as a dike, breakwater, dredged basin, or fill, but they can include other actions such as clearing, grading, application of chemicals, or significant vegetation removal. Shoreline modifications usually are undertaken in support of or in preparation for a shoreline use; for example, fill (shoreline modification) required for a cargo terminal (industrial use) or dredging (shoreline modification) to allow for a marina (boating facility use).

The provisions in this section apply to all shoreline modifications within shoreline jurisdiction.

(2) **Principles.**

Master programs shall implement the following principles:

(a) Allow structural shoreline modifications only where they are demonstrated to be necessary to support or protect a legally existing or allowed development and only when ecological functions will be protected, including ecological functions necessary for properly functioning condition.

(b) Avoid significant ecological impacts of new shoreline modifications and limit shoreline modifications in number and extent.

(c) Allow only shoreline modifications that are appropriate to the specific type of shoreline and environmental conditions for which they are proposed.

(d) Give preference to those types of shoreline modifications that have a lesser impact on ecological functions or contribute to the attainment of properly functioning condition or other ecological functions. For example, in normal circumstances, preference should be given to pile-supported piers, which allow normal water flow, rather than to piers constructed with fill, which alter the normal flow of water.

(e) Where applicable, base provisions on scientific and technical information and a comprehensive analysis of drift cells for marine waters or reach conditions for riverine systems. Contact the department for available drift cell characterizations.

(f) Enhance ecological functions while accommodating existing legally permitted uses. As shoreline modifications occur, incorporate all feasible measures to protect and restore ecological shoreline functions and ecosystem-wide processes. Apply conditions to development authorizations so that structural shoreline modifications for nonwater-dependent uses on degraded sites contribute to restoration of properly functioning condition and other ecological functions.

(g) Avoid and reduce significant ecological impacts according to the mitigation sequence in WAC 173-26-020.

(h) Prohibit the use of materials with toxic effects and do not allow construction and site development techniques that may affect PFC and other ecological functions.

(i) Master program environment designation provisions and boundaries should identify the areas where structural

shoreline stabilization measures are prohibited or greatly restricted to avoid harm to natural shoreline functions and those areas where restoration of natural shoreline processes are encouraged or required.

(j) Conduct baseline and post-construction monitoring to assess the impacts of shoreline modifications and application of adaptive management instituted to reconcile problems.

(k) Conduct monitoring and regulatory response activities as described in WAC 173-26-300 (2)(b) in order to identify and address negative trends or cumulative impacts due to shoreline modifications. The department will also examine impacts and trends specific to shoreline modifications and adopt guidelines to correct deficiencies in shoreline management practices.

(l) Develop incentives for the use of innovative alternative approaches for shoreline modifications that help attain PFC.

(3) **Provisions for specific shoreline modifications.**

(a) **Shoreline stabilization.**

(i) **Applicability.**

Shoreline stabilization includes actions taken to address erosion impacts to dwellings, businesses, or essential structures caused by natural processes, such as current, flood, tides, wind, or wave action. These actions include structural and nonstructural methods.

Nonstructural methods include building setbacks, relocation of the structure to be protected, ground water management, planning and regulatory measures to avoid the need for structural stabilization.

"Hard" structural stabilization measures refer to those with solid, hard surfaces, such as concrete bulkheads, while "soft" structural measures rely on softer materials, such as biotechnical vegetation measures or beach enhancement. There is a range of measures varying from soft to hard that include:

- Vegetation enhancement;
- Upland drainage control;
- Biotechnical measures;
- Beach enhancement;
- Anchor trees;
- Gravel placement;
- Rock revetments;
- Gabions;
- Concrete groins;
- Retaining walls and bluff walls;
- Bulkheads; and
- Seawalls.

Generally, the harder the construction measure, the greater the impact on shoreline processes, including sediment transport, geomorphology, and biological functions.

Shoreline armoring typically results in the following adverse effects:

- Beach starvation. Sediment supply to nearby beaches is cut off, leading to "starvation" of the beaches for the gravel, sand, and other fine-grained materials that typically constitute a beach.
- Habitat degradation. Vegetation that shades the upper beach or bank is eliminated, thus degrading the value of the shoreline for many ecological functions, including spawning habitat for salmonids and forage fish.
- Sediment impoundment. As a result of shoreline armoring, the sources of sediment on beaches (eroding "feeder" bluffs) are progressively lost and longshore transport is diminished. This leads to lowering of down-drift beaches, the narrowing of the high tide beach, and the coarsening of beach sediment. As beaches become more coarse, less prey for juvenile fish (including threatened Hood Canal chum and Puget Sound Chinook salmon) is produced. Sediment starvation may lead to accelerated erosion in down-drift areas. Also, as sediments become coarser, they become less suitable for forage fish. Forage fish provide food for bull trout and salmonids in the marine environment.
- Exacerbation of erosion. The hard face of shoreline armoring, particularly concrete bulkheads, reflects wave energy back onto the beach, exacerbating erosion.
- Bulkhead failure. In time, the substrate of the beach coarsens and scours down to bedrock or a hard clay. The footings of bulkheads are exposed, leading to undermining and failure. This process is exacerbated when the original cause of the erosion and "need" for the bulkhead was from upland water drainage problems.
- Ground water impacts. Erosion control structures often raise the water table on the landward side, which leads to higher pore pressures in the beach itself. In some cases, this may lead to accelerated erosion of sand-sized material from the beach.
- Hydraulic impacts. Shoreline armoring generally increases the reflectivity of the shoreline and redirects wave energy back onto the beach. This leads to scouring and lowering of the beach, to coarsening of the beach, and to ultimate failure of the structure.
- Loss of shoreline vegetation. Vegetation provides important "softer" erosion control functions. Vegetation is also critical in maintaining properly functioning condition for listed T&E species and other ecological functions.
- Loss of large woody debris. Changed hydraulic regimes and the loss of the high tide beach, along with the prevention of natural erosion of vegetated shorelines, lead to the loss of beached organic material. This material can increase heterogeneity, can serve as a stabilizing influence on natural shorelines, and is habitat for many aquatic-based organisms, which are, in turn, important prey for larger organisms, including young salmon.
- Restriction of channel movement and creation of side channels. Hardened shorelines along rivers slow the movement of channels, which, in turn, prevents the input of larger woody debris, gravels for spawning, and the creation of side channels important for juvenile salmon rearing, and can result in increased floods and scour.
- Loss of rearing habitat for juvenile salmonids. Hardened channels can decrease habitat.

Structural shoreline stabilization often results in vegetation removal and damage to near-shore habitat and shoreline corridors. Therefore, master program shoreline stabilization provisions shall also be consistent with WAC 173-26-320(5), vegetation conservation, and WAC 173-26-320(2), critical areas.

The following standards, where applicable to residential bulkheads, implement RCW 90.58.100(6), which states:

Each master program shall contain standards governing the protection of single-family residences and appurtenant structures against damage or loss due to shoreline erosion. The standards shall govern the issuance of substantial development permits for shoreline protection, including structural methods such as construction of bulkheads, and nonstructural methods of protection. The standards shall provide for methods which achieve effective and timely protection against loss or damage to single family residences and appurtenant structures due to shoreline erosion. The standards shall provide a preference for permit issuance for measures to protect single-family residences occupied prior to January 1, 1992, where the proposed measure is designed to minimize harm to the shoreline natural environment.

RCW 90.58.020 includes the statement:

The legislature further finds that much of the shorelines of the state and the uplands adjacent thereto are in private ownership; that unrestricted construction on the privately owned or publicly owned shorelines of the state is not in the best public interest; and therefore, coordinated planning is necessary in order to protect the public interest associated with the shorelines of the state while, at the same time, recognizing and protecting private property rights consistent with the public interest. There is, therefor, a clear and urgent demand for a planned, rational, and concerted effort, jointly performed by federal, state, and local governments, to prevent the inherent harm in an uncoordinated and piecemeal development of the state's shorelines.

Therefore, it is also necessary that master program regulations include provisions to ensure against ecological harm from the cumulative impacts of incremental development actions, including residential development.

As applied to shoreline stabilization measures, "normal repair" and "normal maintenance" include the patching, sealing, or refinishing of existing structures, the replenishment of sand or other material that has been washed away, and the replacement of less than twenty percent of the structure. Normal maintenance and normal repair are limited to those actions that are typically done on a periodic basis. Construction that causes significant ecological impacts is not considered normal maintenance and repair.

As applied to shoreline stabilization measures, "replacement" means the construction of a new structure to perform a shoreline stabilization function of an existing structure which can no longer adequately serve its purpose.

Additions to or increases in size of existing shoreline stabilization measures shall be considered new structures.

Local governments should consult with technical assistance materials provided by the department. Local governments are encouraged to offer incentives, such as expedient permitting, for removal of unnecessary shoreline stabilization measures and contribution to properly functioning condition for T&E species.

(ii) **Standards.**

Master programs shall implement the following standards:

(A) New structural stabilization measures shall not be allowed except to protect or support an existing or approved development, for the restoration of ecological functions, or for hazardous substance remediation pursuant to chapter 70.105D RCW. This is to prevent speculative shoreline stabilization consistent with WAC 173-26-320(5).

(B) New development shall, where feasible, be located and designed to eliminate the need for concurrent or future shoreline stabilization.

(C) On shorelines where T&E species and their prey have a primary association, new nonwater-dependent development, including single-family residences, that includes structural shoreline stabilization shall not be allowed unless all of the conditions below apply:

- The need to protect the development from destruction, within the next three years, due to erosion caused by natural processes, such as tidal action, currents, and waves, is demonstrated through a geotechnical report.
- The erosion is not being caused by upland conditions, such as loss of vegetation and drainage.
- Nonstructural measures as described in WAC 173-26-330 (3)(a)(i), such as placing the development further from the shoreline, planting vegetation, or installing on-site drainage improvements, are not feasible or not sufficient.
- The structure will not cause significant ecological impacts to priority species, and critical habitats described in WAC 173-26-320 (2)(c)(iii) and (iv). This applies on the site, and within the drift cell or stream reach, whichever applies, as determined by the geotechnical and biological evaluations.

New water-dependent development requiring shoreline stabilization shall not cause adverse ecological impacts to PFC for T&E species. Where allowed, new shoreline stabilization for water-dependent development shall be conditioned with the requirement to help attain PFC for T&E species.

(D) Do not allow shoreline stabilization for new development that would cause significant ecological impacts to adjacent or down-current properties and shoreline areas.

(E) Do not allow the subdivision of land into parcels, or the creation of new lots, that will require shoreline stabilization for development to occur.

(F) New development on steep slopes or bluffs shall be set back sufficiently to ensure that shoreline stabilization will not be needed during the life of the structure, as demonstrated by a geotechnical analysis.

(G) New or enlarged structural shoreline stabilization measures for an existing structure, including residences, should not be allowed unless there is conclusive evidence, documented by a geotechnical analysis, that the structure is in danger within the next three years from shoreline erosion caused by tidal action, currents, or waves. Normal sloughing, erosion of steep bluffs, or shoreline erosion itself, without a scientific or geotechnical analysis, is not demonstration of need. The geotechnical analysis should evaluate on-site drainage issues and address drainage problems away from the shoreline edge before considering structural shoreline stabilization. The project design and analysis should also evaluate vegetation enhancement as a means of reducing undesirable erosion. If the geotechnical analysis demonstrates a need for shoreline stabilization, impacts to T&E species shall be assessed through a habitat evaluation and the project conditioned to maintain properly functioning condition and other ecological functions.

(H) An existing shoreline stabilization structure shall not be replaced with a similar structure unless a geotechnical analysis demonstrates there is a need to protect preferred or priority structures identified in RCW 90.58.020 from erosion caused by currents, tidal action, or waves. The demonstration of need must identify the reason for erosion, the protective benefit that the shoreline stabilization measures will perform, and the minimum measures necessary to accomplish the protective function. The replacement structure shall be designed, located, sized, and constructed to minimize harm to ecological functions. Replacement walls or bulkheads shall be located landward to the greatest extent possible unless the residence was occupied prior to January 1, 1992, and there are overriding safety or environmental concerns. In such cases, the replacement structure shall abut the existing shoreline stabilization structure. Where significant ecological impacts to critical saltwater habitats would occur by leaving the existing structure, remove it as part of the replacement measure. Soft shoreline stabilization that restores properly functioning condition or other ecological functions may be permitted waterward of the ordinary high-water mark.

(I) Where structural shoreline stabilization measures are demonstrated to be necessary, as in the above provisions, limit the size of stabilization measures to the minimum necessary. Use measures designed to minimize harm to ecological functions and apply mitigation through mitigation sequencing. Mitigation shall address the functions lost. Soft approaches shall be used unless demonstrated not to be sufficient to protect primary structures, dwellings, and businesses.

(J) In the design of shoreline stabilization measures, use the habitat evaluation as a basis to maintain or restore, as much as possible, properly functioning condition for T&E species and the ecological functions of the shoreline. Require mitigation of adverse impacts to shoreline functions in accordance with the mitigation sequence defined in WAC 173-26-020. Include vegetation conservation, as described in WAC 173-26-320(5), as part of shoreline stabilization, where applicable.

(K) Ensure that publicly financed or subsidized shoreline erosion control measures do not restrict appropriate public access to the shoreline except where such access is determined to be infeasible because of incompatible uses, safety, security, or harm to ecological functions. See public access provisions; WAC 173-26-320(4). Where feasible, incorporate ecological restoration and public access improvements into the project.

(L) Mitigate new erosion control measures, including replacement structures, on feeder bluffs or other actions that affect beach sediment-producing areas to avoid and, if that is not possible, to minimize adverse impacts to sediment conveyance systems. Where sediment conveyance systems cross jurisdictional boundaries, local governments should coordinate shoreline management efforts. If beach erosion is threatening existing development, local governments should adopt master program provisions for a beach management district or other institutional mechanism to provide comprehensive mitigation for the adverse impacts of erosion control measures.

(M) For erosion or mass wasting due to upland conditions, see WAC 173-26-320 (2)(c)(ii).

(b) **Piers and docks.**

New piers and docks shall be allowed only for water-dependent uses or public access. Pier and dock construction shall be restricted to the minimum size necessary to meet the needs of the proposed water-dependent use. Water-related and water-enjoyment uses may be allowed as part of mixed-use development on over-water structures where they are clearly auxiliary to, and in support of, water-dependent uses, provided the minimum size requirement needed to meet the water-dependent use is not violated.

New pier or dock construction should be permitted only when the applicant has demonstrated that a specific need exists to support the intended water-dependent uses. If a port district or other public or commercial entity involving water-dependent uses has performed a needs analysis or comprehensive master plan projecting the future needs for pier or dock space, and if the plan or analysis is approved by the local government and consistent with these guidelines, it may serve as the necessary justification for pier design, size, and construction. The intent of this provision is to allow ports and other entities the flexibility necessary to provide for existing and future water-dependent uses.

Where new piers or docks are allowed, master programs shall contain provisions to require new residential development of two or more dwellings to provide joint use or community dock facilities rather than allow individual docks for each residence.

Piers and docks, including those accessory to single-family residences, shall be designed and constructed to avoid impacts to critical habitats consistent with WAC 173-26-320 (2)(c)(iii) and (iv)(B). Master program provisions for piers and docks shall prevent cumulative impacts to PFC consistent with WAC 173-26-300 (2)(e) and should require that structures be made of materials that have been approved by applicable state agencies.

(c) **Fill.**

Fills shall be located, designed, and constructed to protect shoreline ecological functions and specifically shall not adversely affect or preclude the attainment of PFC and hydrological and geomorphological processes, including channel migration.

Fills waterward of the ordinary high-water mark shall be allowed only when necessary to support a water-dependent use, public access, clean-up and disposal of contaminated sediments as part of an interagency environmental clean-up plan, mitigation action, environmental restoration, beach nourishment or enhancement project. Fills waterward of the ordinary high-water mark for any use except ecological restoration shall require a conditional use permit.

(d) **Breakwaters, jetties, groins, and weirs.**

Breakwaters, jetties, groins, and weirs located waterward of the ordinary high-water mark shall be allowed only where necessary to support water-dependent uses, public access, shoreline stabilization or other specific public purpose. Breakwaters, jetties, groins, weirs, and similar structures shall require a conditional use permit, except for those structures installed to protect or restore ecological functions, such as large woody debris installed in streams. Such structures shall be designed to protect or restore ecological functions, to protect critical areas, and to support the attainment of

properly functioning condition and shall provide for mitigation according to the sequence defined in WAC 173-26-020.

(e) **Beach and dunes management.**

Washington's dunes and their associated beaches lie along the Pacific Ocean coast between Point Grenville and Cape Disappointment, and as shorelines of statewide significance shall be managed from a statewide perspective. Dunes and their beaches within shoreline jurisdiction shall be managed to conserve, protect, where appropriate develop, and where appropriate restore the resources and benefits of coastal dunes. Dune modification shall not be allowed where it would cause significant ecological impacts to PFC for T&E species. Dunes and associated beaches should also be managed to reduce the hazard to human life and property from natural or human-induced actions associated with these areas.

Shoreline master programs in coastal marine areas shall provide for diverse and appropriate use of beach and dune areas consistent with their ecological, recreational, aesthetic, and economic values, and consistent with the natural limitations of beaches, dunes, and dune vegetation for development. Coastal master programs shall institute development setbacks from the shoreline to prevent impacts to the natural, functional, ecological and aesthetic qualities of the dune.

"Dune modification" is the removal or addition of material to a dune, the reforming or reconfiguration of a dune, or the removal or addition of vegetation that will alter the dune's shape or sediment migration. Dune modification may be proposed for a number of purposes, including protection of property, flood and storm hazard reduction, erosion prevention, and ecological restoration.

Coastal dune modification shall be allowed only as a conditional use unless a jurisdiction-wide or regional plan for dune management addressing grading, revegetation, and monitoring, is carried out consistent with state and federal flood protection standards and approved by the local government and the department.

Dune modification to protect views of the water shall be allowed only where the view is completely obstructed for residences or water-enjoyment uses and where it can be demonstrated that the dunes did not obstruct views at the time of original occupancy, and then only in conformance with the above provisions.

(f) **Dredging and dredge material disposal.**

Dredging and dredge material disposal shall be done in a manner which avoids significant ecological impacts.

New development shall be sited and designed to avoid the need for new and maintenance dredging where significant ecological impacts to properly functioning condition for T&E species result. Dredging for the purpose of establishing, expanding, or relocating navigation channels and basins should be allowed only when significant ecological impacts are minimized and when suitable mitigation is provided. Maintenance dredging of established navigation channels and basins should be restricted to maintaining previously dredged and/or existing authorized location, depth, and width unless necessary to improve navigation.

Dredging waterward of the ordinary high-water mark for the primary purpose of obtaining fill material shall not be allowed, except when the material is necessary for the restoration of properly functioning condition for T&E species, or restoration of other ecological functions on sites not associated with T&E species. When allowed, the site where the fill is to be placed must be located waterward of the ordinary high-water mark. The project must be either associated with a MTCA or CERCLA habitat restoration project or, if approved through a shoreline conditional use permit, any other significant habitat enhancement project. Master programs should include provisions for uses of suitable dredge material that benefit shoreline resources. Where applicable, master programs should provide for the implementation of adopted regional interagency dredge material management plans or watershed management planning.

Disposal of dredge material into river channel migration zones or 100-year flood plains within shoreline jurisdiction but outside of harbor areas shall be discouraged and shall not be allowed in an area supporting priority species. In the limited instances where it is allowed, such disposal shall require a conditional use permit.

(g) **Shoreline habitat and natural systems enhancement projects.**

Shoreline habitat and natural systems enhancement projects include those activities proposed and conducted specifically for the purpose of establishing, restoring, or enhancing habitat for priority species in shorelines.

Master programs should include provisions fostering habitat and natural system enhancement projects. Such projects may include shoreline modification actions such as modification of vegetation, shoreline stabilization, dredging, and filling, provided that the primary purpose of such actions is clearly restoration of the natural character and ecological functions of the shoreline. Master program provisions shall assure that the projects address legitimate restoration needs and priorities.

[Statutory Authority: RCW 90.58.060 and 90.58.200. 00-24-031 (Order 95-17a), § 173-26-330, filed 11/29/00, effective 12/30/00.]

WAC 173-26-340 Shoreline uses. (1) Applicability.

The provisions in this section apply to uses and development within shoreline jurisdiction.

(2) **General use provisions.**

(a) **Principles.**

Shoreline master programs shall implement the following principles:

(i) Establish a system of use and environment designation provisions consistent with WAC 173-26-310 that gives preference to those uses that are consistent with the control of pollution and prevention of damage to the natural environment, or are unique to or dependent upon uses of the state's shoreline areas.

(ii) Ensure that all shoreline master program provisions concerning proposed development of property are established, as necessary, to protect the public's health, safety, and welfare, as well as the land and its vegetation and wildlife, and to protect property rights while implementing the policies of the Shoreline Management Act.

(iii) Reduce use conflicts by including provisions to prohibit or apply special conditions to those uses which are not consistent with the control of pollution and prevention of damage to the natural environment or are not unique to or dependent upon use of the state's shoreline. In implementing

this provision, preference shall be given first to water-dependent uses, then to water-related uses and water-enjoyment uses.

(iv) Establish regulations to mitigate existing and potential impacts affecting the attainment of PFC and other ecological functions.

(v) Establish use provisions that preserve unique shorelines. Shoreline master programs shall establish use provisions that take advantage of shorelines with unique attributes or resources.

(vi) Establish use provisions that encourage the restoration of ecological functions on degraded shorelines.

(vii) Address the impacts from specific uses through the monitoring and adaptive management program described in WAC 173-26-300 (2)(b). As part of this program, the department will examine impacts and trends specific to different uses and adopt guidelines to correct deficiencies in shoreline management practices.

(b) **Conditional uses.**

Define the types of uses and development that require shoreline conditional use permits. Requirements for a conditional use permit may be used for a variety of purposes, including:

- To effectively address unanticipated uses not classified in the master program as described in WAC 173-27-030.
- To address cumulative impacts.
- To provide the opportunity to require environmental analysis or design modifications of a proposal that would otherwise be inconsistent with Shoreline Management Act policies.

In these cases, allowing a given use as a conditional use could provide greater flexibility within the master program than if the use were prohibited outright.

If master programs permit the following types of uses and development, they shall require a conditional use permit:

(i) Uses and development that may significantly impair or alter the public's use of the water areas of the state.

(ii) Uses and development which, by their intrinsic nature, may have a significant ecological impact on shoreline ecological functions or shoreline resources depending on location, design, and site conditions, such as fill waterward of the ordinary high-water mark, disposal of dredge material within a river channel migration zone but outside a harbor area, Class IV general forest practices where shorelines are being converted or are expected to be converted to nonforest uses, breakwaters, jetties, groins, and weirs.

(iii) Development in critical saltwater habitats.

(iv) Other uses and development as identified by local governments.

Master programs shall contain provisions that assure that uses requiring a conditional use permit shall not be allowed if they would cause significant ecological impacts to properly functioning condition for T&E species.

(3) **Standards.**

Establish master program regulations to address the potential impacts and opportunities of specific shoreline uses that may occur in the jurisdiction.

(a) **Agriculture.**

Applicable master programs shall address new agricultural development that does not meet the definition of existing and ongoing agriculture.

RCW 90.58.030 (3)(e) defines substantial development for agricultural uses. New shoreline master program provisions do not apply retroactively to existing agricultural uses. Existing and ongoing agriculture includes, but is not limited to, the production of horticultural, viticultural, floricultural, livestock, dairy, apiary, vegetable, or animal products or of berries, grain, hay, straw, turf, seed, or Christmas trees; the operation and maintenance of farm and stock ponds, drainage ditches, or irrigation systems; normal crop rotation and crop change; and the normal maintenance and repair of existing structures, facilities, and lands currently under production or cultivation.

New development, clearing, and grading in support of agricultural uses shall be located and designed to avoid significant ecological impacts.

Applicable master programs shall include standards for setbacks, water quality protection, environmental impacts, and vegetation conservation, as described in WAC 173-26-320(5), for new agricultural development, clearing, and grading in shoreline jurisdiction.

Requirements for setbacks for new development shall be based on scientific and technical information and management practices adopted by the applicable state agencies necessary to preserve the functions and qualities of the shoreline environment. In riverine corridors with priority species, the regulations shall be sufficient to ensure no net loss of habitat viability. If the shoreline habitat has been degraded through development or agriculture practices, the master program shall include provisions that result in improved habitat over time.

Agricultural lands within jurisdiction of the Shoreline Management Act which are enrolled in set-aside programs administered by the Natural Resources Conservation Service or the Farm Services Administration of the United States Department of Agriculture, or any other federal, state, or local agency, are considered to remain existing and ongoing agriculture for purposes of the Shoreline Management Act and this rule. This provision is intended to ensure that master program provisions do not prevent agriculture from being resumed after the period of the set-aside program.

(b) **Aquaculture.**

Aquaculture is the culture or farming of food fish, shellfish, or other aquatic plants and animals. This activity is of statewide interest. Properly managed, it can result in long-term over short-term benefit and can protect the resources and ecology of the shoreline. Aquaculture is dependent on the use of the water area and, when consistent with control of pollution and prevention of damage to the environment, is a preferred use of the water area.

Potential locations for aquaculture are relatively restricted due to specific requirements for water quality, temperature, flows, oxygen content, adjacent land uses, wind protection, commercial navigation, and, in marine waters, salinity. The technology associated with some forms of present-day aquaculture is still in its formative stages and experimental. Local shoreline master programs should therefore recognize the necessity for some latitude in the develop-

ment of this emerging economic water use as well as its potential impact on existing uses and natural systems.

Aquaculture shall not be permitted in areas where it would significantly degrade ecological functions over the long term, adversely impact eelgrass and macroalgae, or significantly conflict with navigation and other water-dependent uses. Aquacultural facilities shall be designed and located so as not to spread disease to native aquatic life, establish new nonnative species which cause significant ecological impacts, or significantly impact the aesthetic qualities of the shoreline. Impacts to ecological functions shall be mitigated according to the mitigation sequence described in WAC 173-26-020.

(c) **Boating facilities.**

For the purposes of this chapter, "boating facilities" excludes docks serving four or fewer single-family residences. Shoreline master programs shall contain provisions to address potential impacts while providing the boating public recreational opportunities on waters of the state.

Where applicable, shoreline master programs shall, at a minimum, contain:

(i) Provisions to ensure that boating facilities are located only at sites with suitable environmental conditions, shoreline configuration, access, and neighboring uses and where significant ecological impacts to PFC for T&E can be avoided.

(ii) Provisions that assure that facilities meet health, safety, and welfare requirements. Master programs may reference other regulations to accomplish this requirement.

(iii) Regulations to avoid, or if that is not possible, to mitigate visual and significant ecological impacts.

(iv) Provisions for public access in new marinas, particularly where water-enjoyment uses are associated with the marina, in accordance with WAC 173-26-320(4).

(v) Regulations to limit the impacts from boaters living in their vessels (live-aboards).

(vi) Regulations reducing the impacts of parking.

(vii) Regulations restricting or mitigating the impacts of covered moorage.

(viii) Regulations to protect the rights of navigation.

(ix) Regulations restricting vessels from permanently mooring on waters of the state unless a lease or permission is obtained from the state and impacts to navigation and public access are mitigated.

(d) **Commercial development.**

Master programs shall first give preference to water-dependent commercial uses over nonwater-dependent commercial uses; and second, give preference to water-related and water-enjoyment commercial uses over nonwater-oriented commercial uses.

Require that public access and ecological restoration be considered for all water-dependent commercial development. Require that public access and ecological restoration be a condition of all nonwater-dependent commercial development unless such improvements are demonstrated to be infeasible or inappropriate. Refer to WAC 173-26-220(4) for public access provisions.

Master programs shall exclude nonwater-oriented commercial uses from locating on the shoreline unless they provide public access and ecological restoration and they meet at least one of the following criteria:

(i) The use is part of a mixed-use project that includes water-dependent uses;

(ii) Navigability is severely limited at the proposed site; or

(iii) The commercial use provides a significant public benefit with respect to the Shoreline Management Act's objectives.

Nonwater-oriented commercial development may be allowed if the site is physically separated from the shoreline by another property or public right of way.

New nonwater-dependent commercial development shall be required to protect existing shoreline vegetation contributing to ecological functions. Where shoreline vegetation has been removed or degraded, nonwater-dependent commercial development shall contribute to the restoration of ecological functions provided by vegetation.

Nonwater-dependent commercial uses should not be allowed over water except in existing structures or in the limited instances where they are auxiliary to and in support of water-dependent uses and provided the size of the over-water construction is not expanded for nonwater-dependent uses.

New water-dependent commercial development shall mitigate impacts to shoreline vegetation according to WAC 173-26-300 (2)(f).

(e) **Forest practices.**

Local master programs shall, where applicable, rely on the Forest Practices Act and rules implementing the act and the Forest and Fish Report as adequate management of commercial forest uses within shoreline jurisdiction. However, local governments shall, where applicable, apply this chapter to Class IV-General forest practices where shorelines are being converted or are expected to be converted to nonforest uses.

Forest practice conversions and other Class IV-General forest practices where there is a likelihood of conversion to nonforest uses shall avoid significant ecological impacts to the shoreline environment and maintain the ecological quality of the watershed hydrologic system. Master programs shall establish provisions to ensure that all such timber removal is consistent with the master program environment designation provisions and the provisions of this chapter. Applicable shoreline master programs shall contain provisions to ensure that when forest lands are converted to another use, including a residential use, significant vegetation removal, grading, and development, except for low-intensity uses and public access that protect or restore ecological functions, are not allowed within the vegetation conservation area as defined in WAC 173-26-320 (5)(d)(iv) or within shoreline jurisdiction, whichever is less.

Master programs shall implement the provisions of RCW 90.58.150 regarding selective removal of timber harvest on shorelines of statewide significance. Exceptions to this standard shall be by conditional use permit only.

Lands designated as "forest lands" pursuant to RCW 36.70A.170 shall be designated either "natural," "rural conservancy," or equivalent environment designation.

Where forest practices fall within the applicability of the Forest Practices Act, local governments should consult with

the department of natural resources, other applicable agencies, and local timber owners and operators.

(f) **Industry.**

Regional and statewide needs for water-dependent and water-related industrial facilities should be carefully considered in establishing master program environment designations, use provisions, and space allocations for industrial uses and supporting facilities.

Industrial development shall not be located or designed in a manner that causes significant ecological impacts to the ecological functions or properly functioning condition for T&E species. Particular scrutiny shall be given to ecological functions necessary to support priority species.

New industrial development shall incorporate public access to the water except when such access causes significant interference with operations or hazards to life or property, as provided in WAC 173-26-320(4). Industrial development and redevelopment shall, where feasible, incorporate environmental cleanup and restoration of the shoreline area. New nonwater-oriented industrial development—that is, industrial development that is neither water-dependent nor water-related—should only be allowed on shorelines that are not navigable for commercial transport and shall include ecological restoration of the shoreline and, where feasible, public access. In such cases, no new structural shoreline stabilization measures should be permitted, except to protect or restore ecological functions or public access.

Additions or modifications to existing nonwater-dependent development may be allowed on shorelines navigable for commercial transport, provided restoration and public access are provided where feasible.

New nonwater-dependent industrial development shall be required to protect existing shoreline vegetation contributing to ecological functions. Where shoreline vegetation has been removed or degraded, nonwater-dependent development shall contribute to the restoration of ecological functions provided by vegetation consistent with WAC 173-26-320(5).

New water-dependent development shall mitigate impacts to shoreline vegetation.

(g) **In-stream structures.**

In-stream structures shall provide for the protection, preservation, and restoration of ecosystem-wide processes, ecological functions, and cultural resources, including, but not limited to, fish and fish passage, wildlife and water resources, shoreline critical areas, hydrogeological processes, and natural scenic vistas. The location and planning of in-stream structures shall give due consideration to the full range of public interests, watershed functions and processes, and environmental concerns, with special emphasis on protecting and restoring priority habitats and species.

(h) **Mining.**

Mining is the removal of sand, gravel, soil, minerals, and other earth materials for commercial and other uses. Mining alters the natural character, resources, and ecology of shorelines of the state and may adversely impact critical shoreline resources. Activities associated with mining, including processing and transportation, also have the potential to adversely impact shoreline resources. Master programs shall include policies and regulations that assure:

(i) Mining and associated activities are not allowed where such uses would result in short-term or long-term significant ecological impacts to shoreline ecological functions or ecosystem-wide processes.

(ii) Where mining and associated activities are allowed, they must be conducted in a manner that is consistent with the policies of the environment designation in which they are located, impacts to fish and wildlife habitat shall be avoided, and all disturbed areas must be restored upon completion of mining. Destruction of critical habitat for T&E or priority species is prohibited.

(iii) Surface mining shall be conducted in conformance with the Washington State Surface Mining Reclamation Act, chapter 78.44 RCW.

(iv) Surface mine reclamation plans shall provide for subsequent use of the property that is consistent with the policies of the environment designation in which they are located and shall assure that ecological functions of the shoreline are restored.

(v) Removal of sand and gravel resources from a location waterward of the ordinary high-water mark of a river shall be prohibited unless:

(A) A hydrogeological study, conducted by a qualified professional and approved by appropriate state agencies, demonstrates that removal of specific quantities at specific locations will not significantly alter the natural processes of gravel transportation for the river system as a whole; and

(B) A biological study, conducted by a qualified professional and approved by appropriate state agencies, demonstrates that removal will not significantly degrade habitat values for priority species or damage other ecological functions.

Removal of sand and gravel from a location waterward of the channel migration zone shall require a conditional use permit.

In locations where gravel removal has been allowed in the past, any future authorization to continue shall be based on studies as required above, and no further authorization shall be granted except in conformance with this provision.

(i) **Recreational development.**

Provision shall be made in master programs for the public to enjoy the waters of the state. Master program provisions shall ensure that shoreline recreational facilities, now and in the future, can reasonably tolerate, during peak use periods, a balance of active and passive uses without causing significant ecological impacts.

In accordance with RCW 90.58.100(4), master program provisions shall reflect that state-owned shorelines are particularly adapted to providing wilderness beaches, ecological study areas, and other recreational uses for the public and give appropriate special consideration to the same.

For all jurisdictions planning under the Growth Management Act, master program recreation policies shall be consistent with growth projections and level-of-service standards established by the applicable comprehensive plan. Private recreational development shall not be a substitute for publicly owned, publicly accessible recreational facilities on the shorelines. Recreational development should provide for a spectrum of recreational needs and opportunities. Where possible, shoreline recreational facilities should be linked to other recreational attractions by pedestrian and bicycle trails.

Master program recreation provisions shall be consistent with public access and environmental protection provisions of this chapter.

Master program provisions shall give preference to water-dependent recreation as a first priority and water-enjoyment and water-related recreational uses as a second priority. Nonwater-oriented recreational uses should be discouraged on the shoreline and, where allowed, shall include public access and ecological protection and restoration.

The impacts of recreational developments, including water-dependent facilities such as marinas and swimming beaches, and nonwater-oriented uses shall be mitigated. Nonwater-dependent recreational uses shall be located away from the water unless their significant ecological impacts can be avoided. Nonwater-recreational uses, such as beach driving, shall be restricted where necessary to maintain PFC for T&E species, including protecting forage fish habitat.

(j) **Residential development.**

Single-family residences are a priority use when consistent with control of pollution and prevention of damage to the natural environment. However, residential uses can cause significant damage to the shoreline area through cumulative impacts from shoreline bulkheading, storm water runoff, septic system failure, eelgrass damage, introduction of pollutants, and vegetation removal. Residential development includes single-family and multifamily development and the creation of new residential lots through land division or conversion from another use. Master programs shall include shoreline setbacks, density regulations, bulkhead restrictions, vegetation conservation requirements, and, where applicable, on-site sewage system standards for residential uses, including single-family residences and appurtenant structures and uses, in accordance with the provisions of this chapter. Master programs may provide the above standards either by direct language within the master program or by specific reference to the applicable development regulations. New residential development, including appurtenant structures and uses, shall be sufficiently set back from steep slopes and shorelines vulnerable to erosion so that structural improvements, including bluff walls and other stabilization structures, are not required to protect property. (See RCW 90.58.100(6).)

New over-water residences, including floating homes, are not a preferred use and shall be prohibited.

New multiunit residential development, including duplexes, fourplexes, and the subdivision of land for more than four parcels, should provide community and/or public access in conformance to the local government's public access planning and this chapter.

If piers, docks, breakwaters, jetties, groins, and weirs are allowed in residential development, local governments should consult the department technical assistance materials and afford the best possible protection to priority species and shoreline processes.

Local governments shall not allow residential development of a scale and location that will cause significant ecological impacts to the ecological functions performed by vegetation and PFC for T&E species. Limit significant vegetation removal to the minimum necessary to accommodate permitted primary residential structures. Where the dimensions of existing legally created lots are not sufficient to accommodate development of a permitted use without significant vegetation removal, apply the mitigation sequence defined in WAC 173-26-020 to address adverse impacts to vegetation.

Master programs shall include standards for the creation of new residential lots through land division or conversion from another use that accomplish the following:

(i) Prevent significant vegetation removal, development within the CMZ, and significant ecological impacts to properly functioning condition and other ecological functions. That is, all residential lots resulting from such platting or subdivision must be large enough or configured in a way that a residence may be developed without causing significant ecological impacts to properly functioning condition and other ecological functions. For example, master programs shall prevent the creation of new residential lots that will require structural shoreline stabilization or deviation from vegetation conservation or water quality standards.

When land is converted to residential use from agriculture, forestry, or other less intensive land use, ensure that the resulting lots are sufficient in size and configuration to allow protection of ecological functions or, if vegetation supporting ecological functions has been removed, the restoration of ecological functions.

(ii) Prevent the need for new shoreline stabilization measures that would cause significant ecological impacts.

(iii) Implement the provisions of WAC 173-26-310 and 173-26-320.

(k) **Transportation and parking.**

Establish and implement master program policies and regulations to provide safe, reasonable, and adequate circulation systems to shorelines.

Transportation and parking plans and projects shall be consistent with the master program public access policies, public access plan, and environmental protection provisions.

Circulation system planning to and on shorelands shall include systems for pedestrian, bicycle, and public transportation where appropriate. Circulation planning and projects shall support existing and proposed shoreline uses that are consistent with the master program.

Plan, locate, and design proposed transportation and parking facilities where routes will have the least possible adverse effect on unique or fragile shoreline features and existing ecological functions or on existing or future water-dependent uses. Where other options are available and feasible, new roads or road expansions shall not be built within shoreline jurisdiction.

Parking facilities in shorelines are not a preferred use and shall be allowed only as necessary to support a preferred use. Shoreline master programs shall include policies and regulations to minimize the environmental and visual impacts of parking facilities.

Restoration of shoreline ecological functions shall be a condition of new and expanded nonwater-dependent transportation and parking facilities where they affect PFC for T&E species.

(l) **Utilities.**

These provisions apply to services and facilities that produce, convey, store, or process power, gas, sewage, communications, oil, waste, and the like. On-site utility features serving a primary use, such as a water line to a residence, are "accessory utilities" and shall be considered a part of the allowed use.

All utility facilities shall be designed and located to minimize harm to properly functioning condition and shoreline functions, preserve the natural landscape, and minimize conflicts with present and planned land and shoreline uses while meeting the needs of future populations in areas planned to accommodate growth.

Utility production and processing facilities, such as power plants and sewage treatment plants, or parts of those facilities, that are nonwater-oriented shall not be allowed in shoreline areas unless it can be demonstrated that no other feasible option is available. In such cases, significant ecological impacts to properly functioning condition shall be avoided.

Transmission facilities for the conveyance of services, such as power lines, cables, and pipelines, shall be located to cause minimum harm to the shoreline and shall be located outside of the shoreline area where feasible. Utilities should be located in existing rights of way and corridors whenever possible.

Development of pipelines and cables on tidelands, particularly those running roughly parallel to the shoreline, and development of facilities that may require periodic maintenance or that cause significant ecological impacts shall be discouraged. When permitted, those facilities shall include adequate provisions to protect against significant ecological impacts.

Restoration of ecological functions shall be a condition of new and expanded nonwater-dependent utility facilities where they may affect PFC for T&E species.

[Statutory Authority: RCW 90.58.060 and 90.58.200. 00-24-031 (Order 95-17a), § 173-26-340, filed 11/29/00, effective 12/30/00.]

WAC 173-26-350 Shorelines of statewide significance. (1) **Applicability.**

The following section applies to local governments preparing master programs that include shorelines of statewide significance as defined in RCW 90.58.030.

(2) **Principles.**

Chapter 90.58 RCW raises the status of shorelines of statewide significance in two ways. First, the Shoreline Management Act sets specific preferences for uses of shorelines of statewide significance. RCW 90.58.020 states:

The legislature declares that the interest of all of the people shall be paramount in the management of shorelines of statewide significance. The department, in adopting guidelines for shorelines of statewide significance, and local government, in developing master programs for shorelines of statewide significance, shall give preference to uses in the following order of preference which:

(1) Recognize and protect the statewide interest over local interest;

(2) Preserve the natural character of the shoreline;

(3) Result in long term over short term benefit;

(4) Protect the resources and ecology of the shoreline;

(5) Increase public access to publicly owned areas of the shorelines;

(6) Increase recreational opportunities for the public in the shoreline;

(7) Provide for any other element as defined in RCW 90.58.100 deemed appropriate or necessary.

Second, the Shoreline Management Act calls for a higher level of effort in implementing its objectives on shorelines of statewide significance. RCW 90.58.090(4) states:

The department shall approve those segments of the master program relating to shorelines of statewide significance only after determining the program provides the optimum implementation of the policy of this chapter to satisfy the statewide interest.

Optimum implementation involves special emphasis on statewide objectives and consultation with state agencies. The state's interests may vary, depending upon the geographic region, type of shoreline, and local conditions. Optimum implementation may involve ensuring that other comprehensive planning policies and regulations support Shoreline Management Act objectives.

Because shoreline ecological resources are linked to other environments, implementation of ecological objectives requires effective management of whole ecosystems. Optimum implementation places a greater imperative on identifying, understanding, and managing ecosystem-wide processes and ecological functions that sustain resources of statewide importance.

(3) **Master program provisions for shorelines of statewide significance.**

Because shorelines of statewide significance are major resources from which all people of the state derive benefit, local governments that are preparing master program provisions for shorelines of statewide significance shall implement the following:

(a) **Statewide interest.**

To recognize and protect statewide interest over local interest, consult with applicable state agencies, affected Indian tribes, and statewide interest groups and consider their recommendations in preparing shoreline master program provisions. Recognize and take into account state agencies' policies, programs, and recommendations in developing use regulations. For example, if an anadromous fish species is affected, the Washington state departments of fish and wildlife and ecology and the governor's salmon recovery office, as well as affected Indian tribes, should, at a minimum, be consulted.

(b) **Preserving resources for future generations.**

Prepare master program provisions on the basis of preserving the shorelines for future generations. For example, actions that would convert resources into irreversible uses or detrimentally alter natural conditions characteristic of shorelines of statewide significance should be severely limited. Where natural resources of statewide importance are being diminished over time, master programs shall include provisions to contribute to the restoration of those resources.

(c) **Priority uses.**

Establish shoreline environment designation policies, boundaries, and use provisions that give preference to those uses described in RCW 90.58.020 (1) through (7). More specifically:

(i) Identify the extent and importance of ecological resources of statewide importance and potential impacts to those resources, both inside and outside the local government's geographic jurisdiction.

(ii) Preserve sufficient shorelands and submerged lands to accommodate current and projected demand for economic resources of statewide importance, such as commercial shellfish beds and navigable harbors. Base projections on statewide or regional analyses, requirements for essential public facilities, and comment from related industry associations, affected Indian tribes, and state agencies.

(iii) Base public access and recreation requirements on demand projections that take into account the activities of state agencies and the interests of the citizens of the state to visit public shorelines with special scenic qualities or cultural or recreational opportunities.

(d) **Resources of statewide importance.**

Establish development standards that:

(i) Ensure the long-term protection and restoration of functions supporting properly functioning condition and ecological resources of statewide importance, such as anadromous fish habitats, forage fish spawning and rearing areas, shellfish beds, and unique environments. Standards shall consider incremental and cumulative impacts of permitted development and include provisions to improve the functions of shoreline ecosystems as a whole.

(ii) Provide for the shoreline needs of water-oriented uses and other shoreline economic resources of statewide importance.

(iii) Provide for the right of the public to use, access, and enjoy public shoreline resources of statewide importance.

(e) **Comprehensive plan consistency.**

Assure that other local comprehensive plan provisions are consistent with and support as a high priority the policies for shorelines of statewide significance. Specifically, shoreline master programs shall include policies that incorporate the priorities and optimum implementation directives of chapter 90.58 RCW into comprehensive plan provisions and implementing development regulations. Where necessary for the survival and recovery of T&E species, ensure that comprehensive plan policies and other development regulations are consistent with master program provisions to protect and restore ecological functions necessary for properly functioning condition.

[Statutory Authority: RCW 90.58.060 and 90.58.200. 00-24-031 (Order 95-17a), § 173-26-350, filed 11/29/00, effective 12/30/00.]

PART V
OCEAN MANAGEMENT

WAC 173-26-360 Ocean management. (1) Purpose and intent. This section implements the Ocean Resources Management Act, (RCW 43.143.005 through 43.143.030) enacted in 1989 by the Washington state legislature. The law requires the department of ecology to develop guidelines and policies for the management of ocean uses and to serve as the basis for evaluation and modification of local shoreline management master programs of coastal local governments in Jefferson, Clallam, Grays Harbor, and Pacific counties. The guidelines are intended to clarify state shoreline management policy regarding use of coastal resources, address evolving interest in ocean development and prepare state and local agencies for new ocean developments and activities.

(2) Geographical application. The guidelines apply to Washington's coastal waters from Cape Disappointment at the mouth of the Columbia River north one hundred sixty miles to Cape Flattery at the entrance to the Strait of Juan De Fuca including the offshore ocean area, the near shore area under state ownership, shorelines of the state, and their adjacent uplands. Their broadest application would include an area seaward two hundred miles (RCW 43.143.020) and landward to include those uplands immediately adjacent to land under permit jurisdiction for which consistent planning is required under RCW 90.58.340. The guidelines address uses occurring in Washington's coastal waters, but not impacts generated from activities offshore of Oregon, Alaska, California, or British Columbia or impacts from Washington's offshore on the Strait of Juan de Fuca or other inland marine waters.

(3) Ocean uses defined. Ocean uses are activities or developments involving renewable and/or nonrenewable resources that occur on Washington's coastal waters and includes their associated off shore, near shore, inland marine, shoreland, and upland facilities and the supply, service, and distribution activities, such as crew ships, circulating to and between the activities and developments. Ocean uses involving nonrenewable resources include such activities as extraction of oil, gas and minerals, energy production, disposal of waste products, and salvage. Ocean uses which generally involve sustainable use of renewable resources include commercial, recreational, and tribal fishing, aquaculture, recreation, shellfish harvesting, and pleasure craft activity.

(4) Relationship to existing management programs. These guidelines augment existing requirements of the Shoreline Management Act, chapter 90.58 RCW, and those chapters in Title 173 of the Washington Administrative Code that implement the act. They are not intended to modify current resource allocation procedures or regulations administered by other agencies, such as the Washington department of fisheries management of commercial, recreational, and tribal fisheries. They are not intended to regulate recreational uses or currently existing commercial uses involving fishing or other renewable marine or ocean resources. Every effort will be made to take into account tribal interests and programs in the guidelines and master program amendment processes. After inclusion in the state coastal zone management program, these guidelines and resultant master programs will be used for federal consistency purposes in evaluating federal permits and activities in Washington's coastal waters. Participation in the development of these guidelines and subsequent amendments to master programs will not preclude state and local government from opposing the introduction of new uses, such as oil and gas development.

These and other statutes, documents, and regulations referred to or cited in these rules may be reviewed at the department of ecology, headquarters in Lacey, Washington,

for which the mailing address is Mailstop PV-11, Olympia, WA 98504.

(5) Regional approach. The guidelines are intended to foster a regional perspective and consistent approach for the management of ocean uses. While local governments may have need to vary their programs to accommodate local circumstances, local government should attempt and the department will review local programs for compliance with these guidelines and chapter 173-16 WAC: Shoreline Management Act guidelines for development of master programs. It is recognized that further amendments to the master programs may be required to address new information on critical and sensitive habitats and environmental impacts of ocean uses or to address future activities, such as oil development. In addition to the criteria in RCW 43.143.030, these guidelines apply to ocean uses until local master program amendments are adopted. The amended master program shall be the basis for review of an action that is either located exclusively in, or its environmental impacts confined to, one county. Where a proposal clearly involves more than one local jurisdiction, the guidelines shall be applied and remain in effect in addition to the provisions of the local master programs.

(6) Permit criteria: Local government and the department may permit ocean or coastal uses and activities as a substantial development, variance or conditional use only if the criteria of RCW 43.143.030(2) listed below are met or exceeded:

(a) There is a demonstrated significant local, state, or national need for the proposed use or activity;

(b) There is no reasonable alternative to meet the public need for the proposed use or activity;

(c) There will be no likely long-term significant adverse impacts to coastal or marine resources or uses;

(d) All reasonable steps are taken to avoid and minimize adverse environmental impacts, with special protection provided for the marine life and resources of the Columbia River, Willapa Bay and Grays Harbor estuaries, and Olympic national park;

(e) All reasonable steps are taken to avoid and minimize adverse social and economic impacts, including impacts on aquaculture, recreation, tourism, navigation, air quality, and recreational, commercial, and tribal fishing;

(f) Compensation is provided to mitigate adverse impacts to coastal resources or uses;

(g) Plans and sufficient performance bonding are provided to ensure that the site will be rehabilitated after the use or activity is completed; and

(h) The use or activity complies with all applicable local, state, and federal laws and regulations.

(7) General ocean uses guidelines. The following guidelines apply to all ocean uses, their service, distribution, and supply activities and their associated facilities that require shoreline permits.

(a) Ocean uses and activities that will not adversely impact renewable resources shall be given priority over those that will. Correspondingly, ocean uses that will have less adverse impacts on renewable resources shall be given priority over uses that will have greater adverse impacts.

(b) Ocean uses that will have less adverse social and economic impacts on coastal uses and communities should be given priority over uses and activities that will have more such impacts.

(c) When the adverse impacts are generally equal, the ocean use that has less probable occurrence of a disaster should be given priority.

(d) The alternatives considered to meet a public need for a proposed use should be commensurate with the need for the proposed use. For example, if there is a demonstrated national need for a proposed use, then national alternatives should be considered.

(e) Chapter 197-11 WAC (SEPA rules) provides guidance in the application of the permit criteria and guidelines of this section. The range of impacts to be considered should be consistent with WAC 197-11-060 (4)(e) and 197-11-792 (2)(c). The determination of significant adverse impacts should be consistent with WAC 197-11-330(3) and 197-11-794. The sequence of actions described in WAC 197-11-768 should be used as an order of preference in evaluating steps to avoid and minimize adverse impacts.

(f) Impacts on commercial resources, such as the crab fishery, on noncommercial resources, such as environmentally critical and sensitive habitats, and on coastal uses, such as loss of equipment or loss of a fishing season, should be considered in determining compensation to mitigate adverse environmental, social and economic impacts to coastal resources and uses.

(g) Allocation of compensation to mitigate adverse impacts to coastal resources or uses should be based on the magnitude and/or degree of impact on the resource, jurisdiction and use.

(h) Rehabilitation plans and bonds prepared for ocean uses should address the effects of planned and unanticipated closures, completion of the activity, reasonably anticipated disasters, inflation, new technology, and new information about the environmental impacts to ensure that state of the art technology and methods are used.

(i) Local governments should evaluate their master programs and select the environment(s) for coastal waters that best meets the intent of chapter 173-16 WAC, these guidelines and chapter 90.58 RCW.

(j) Ocean uses and their associated coastal or upland facilities should be located, designed and operated to prevent, avoid, and minimize adverse impacts on migration routes and habitat areas of species listed as endangered or threatened, environmentally critical and sensitive habitats such as breeding, spawning, nursery, foraging areas and wetlands, and areas of high productivity for marine biota such as upwelling and estuaries.

(k) Ocean uses should be located to avoid adverse impacts on proposed or existing environmental and scientific preserves and sanctuaries, parks, and designated recreation areas.

(l) Ocean uses and their associated facilities should be located and designed to avoid and minimize adverse impacts on historic or culturally significant sites in compliance with chapter 27.34 RCW. Permits in general should contain special provisions that require permittees to comply with chapter 27.53 RCW if any archeological sites or archeological objects such as artifacts and shipwrecks are discovered.

(m) Ocean uses and their distribution, service, and supply vessels and aircraft should be located, designed, and operated in a manner that minimizes adverse impacts on fishing grounds, aquatic lands, or other renewable resource ocean use areas during the established, traditional, and recognized times they are used or when the resource could be adversely impacted.

(n) Ocean use service, supply, and distribution vessels and aircraft should be routed to avoid environmentally critical and sensitive habitats such as sea stacks and wetlands, preserves, sanctuaries, bird colonies, and migration routes, during critical times those areas or species could be affected.

(o) In locating and designing associated onshore facilities, special attention should be given to the environment, the characteristics of the use, and the impact of a probable disaster, in order to assure adjacent uses, habitats, and communities adequate protection from explosions, spills, and other disasters.

(p) Ocean uses and their associated facilities should be located and designed to minimize impacts on existing water dependent businesses and existing land transportation routes to the maximum extent feasible.

(q) Onshore facilities associated with ocean uses should be located in communities where there is adequate sewer, water, power, and streets. Within those communities, if space is available at existing marine terminals, the onshore facilities should be located there.

(r) Attention should be given to the scheduling and method of constructing ocean use facilities and the location of temporary construction facilities to minimize impacts on tourism, recreation, commercial fishing, local communities, and the environment.

(s) Special attention should be given to the effect that ocean use facilities will have on recreational activities and experiences such as public access, aesthetics, and views.

(t) Detrimental effects on air and water quality, tourism, recreation, fishing, aquaculture, navigation, transportation, public infrastructure, public services, and community culture should be considered in avoiding and minimizing adverse social and economic impacts.

(u) Special attention should be given to designs and methods that prevent, avoid, and minimize adverse impacts such as noise, light, temperature changes, turbidity, water pollution and contaminated sediments on the marine, estuarine or upland environment. Such attention should be given particularly during critical migration periods and life stages of marine species and critical oceanographic processes.

(v) Preproject environmental baseline inventories and assessments and monitoring of ocean uses should be required when little is known about the effects on marine and estuarine ecosystems, renewable resource uses and coastal communities or the technology involved is likely to change.

(w) Oil and gas, mining, disposal, and energy producing ocean uses should be designed, constructed, and operated in a manner that minimizes environmental impacts on the coastal waters environment, particularly the seabed communities, and minimizes impacts on recreation and existing renewable resource uses such as fishing.

(x) To the extent feasible, the location of oil and gas, and mining facilities should be chosen to avoid and minimize impacts on shipping lanes or routes traditionally used by commercial and recreational fishermen to reach fishing areas.

(y) Discontinuance or shutdown of oil and gas, mining or energy producing ocean uses should be done in a manner that minimizes impacts to renewable resource ocean uses such as fishing, and restores the seabed to a condition similar to its original state to the maximum extent feasible.

(8) Oil and gas uses and activities. Oil and gas uses and activities involve the extraction of oil and gas resources from beneath the ocean.

(a) Whenever feasible oil and gas facilities should be located and designed to permit joint use in order to minimize adverse impacts to coastal resources and uses and the environment.

(b) Special attention should be given to the availability and adequacy of general disaster response capabilities in reviewing ocean locations for oil and gas facilities.

(c) Because environmental damage is a very probable impact of oil and gas uses, the adequacy of plans, equipment, staffing, procedures, and demonstrated financial and performance capabilities for preventing, responding to, and mitigating the effects of accidents and disasters such as oil spills should be major considerations in the review of permits for their location and operation. If a permit is issued, it should ensure that adequate prevention, response, and mitigation can be provided before the use is initiated and throughout the life of the use.

(d) Special attention should be given to the response times for public safety services such as police, fire, emergency medical, and hazardous materials spill response services in providing and reviewing onshore locations for oil and gas facilities.

(e) Oil and gas facilities including pipelines should be located, designed, constructed, and maintained in conformance with applicable requirements but should at a minimum ensure adequate protection from geological hazards such as liquefaction, hazardous slopes, earthquakes, physical oceanographic processes, and natural disasters.

(f) Upland disposal of oil and gas construction and operation materials and waste products such as cuttings and drilling muds should be allowed only in sites that meet applicable requirements.

(9) Ocean mining. Ocean mining includes such uses as the mining of metal, mineral, sand, and gravel resources from the sea floor.

(a) Seafloor mining should be located and operated to avoid detrimental effects on ground fishing or other renewable resource uses.

(b) Seafloor mining should be located and operated to avoid detrimental effects on beach erosion or accretion processes.

(c) Special attention should be given to habitat recovery rates in the review of permits for seafloor mining.

(10) Energy production. Energy production uses involve the production of energy in a usable form directly in or on the ocean rather than extracting a raw material that is transported elsewhere to produce energy in a readily usable form. Examples of these ocean uses are facilities that use wave action or differences in water temperature to generate electricity.

(a) Energy-producing uses should be located, constructed, and operated in a manner that has no detrimental effects on beach accretion or erosion and wave processes.

(b) An assessment should be made of the effect of energy producing uses on upwelling, and other oceanographic and ecosystem processes.

(c) Associated energy distribution facilities and lines should be located in existing utility rights-of-way and corridors whenever feasible, rather than creating new corridors that would be detrimental to the aesthetic qualities of the shoreline area.

(11) Ocean disposal. Ocean disposal uses involve the deliberate deposition or release of material at sea, such as solid wastes, industrial waste, radioactive waste, incineration, incinerator residue, dredged materials, vessels, aircraft, ordnance, platforms, or other man-made structures.

(a) Storage, loading, transporting, and disposal of materials shall be done in conformance with local, state, and federal requirements for protection of the environment.

(b) Ocean disposal shall be allowed only in sites that have been approved by the Washington department of ecology, the Washington department of natural resources, the United States Environmental Protection Agency, and the United States Army Corps of Engineers as appropriate.

(c) Ocean disposal sites should be located and designed to prevent, avoid, and minimize adverse impacts on environmentally critical and sensitive habitats, coastal resources and uses, or loss of opportunities for mineral resource development. Ocean disposal sites for which the primary purpose is habitat enhancement may be located in a wider variety of habitats, but the general intent of the guidelines should still be met.

(12) Transportation. Ocean transportation includes such uses as: Shipping, transferring between vessels, and offshore storage of oil and gas; transport of other goods and commodities; and offshore ports and airports. The following guidelines address transportation activities that originate or conclude in Washington's coastal waters or are transporting a nonrenewable resource extracted from the outer continental shelf off Washington.

(a) An assessment should be made of the impact transportation uses will have on renewable resource activities such as fishing and on environmentally critical and sensitive habitat areas, environmental and scientific preserves and sanctuaries.

(b) When feasible, hazardous materials such as oil, gas, explosives and chemicals, should not be transported through highly productive commercial, tribal, or recreational fishing areas. If no such feasible route exists, the routes used should pose the least environmental risk.

(c) Transportation uses should be located or routed to avoid habitat areas of endangered or threatened species, environmentally critical and sensitive habitats, migration routes of marine species and birds, marine sanctuaries and environmental or scientific preserves to the maximum extent feasible.

(13) Ocean research. Ocean research activities involve scientific investigation for the purpose of furthering knowledge and understanding. Investigation activities involving necessary and functionally related precursor activities to an ocean use or development may be considered exploration or part of the use or development. Since ocean research often involves activities and equipment, such as drilling and vessels, that also occur in exploration and ocean uses or developments, a case by case determination of the applicable regulations may be necessary.

(a) Ocean research should be encouraged to coordinate with other ocean uses occurring in the same area to minimize potential conflicts.

(b) Ocean research meeting the definition of "exploration activity" of WAC 173-15-020 shall comply with the requirements of chapter 173-15 WAC: Permits for oil or natural gas exploration activities conducted from state marine waters.

(c) Ocean research should be located and operated in a manner that minimizes intrusion into or disturbance of the coastal waters environment consistent with the purposes of the research and the intent of the general ocean use guidelines.

(d) Ocean research should be completed or discontinued in a manner that restores the environment to its original condition to the maximum extent feasible, consistent with the purposes of the research.

(e) Public dissemination of ocean research findings should be encouraged.

(14) Ocean salvage. Ocean salvage uses share characteristics of other ocean uses and involve relatively small sites occurring intermittently. Historic shipwreck salvage which combines aspects of recreation, exploration, research, and mining is an example of such a use.

(a) Nonemergency marine salvage and historic shipwreck salvage activities should be conducted in a manner that minimizes adverse impacts to the coastal waters environment and renewable resource uses such as fishing.

(b) Nonemergency marine salvage and historic shipwreck salvage activities should not be conducted in areas of cultural or historic significance unless part of a scientific effort sanctioned by appropriate governmental agencies.

[Statutory Authority: RCW 90.58.060 and 90.58.200. 00-24-031 (Order 95-17a), recodified as § 173-26-360, filed 11/29/00, effective 12/30/00. Statutory Authority: RCW 90.58.195. 91-10-033 (Order 91-08), § 173-16-064, filed 4/24/91, effective 5/25/91.]

Chapter 173-27 WAC

SHORELINE MANAGEMENT PERMIT AND ENFORCEMENT PROCEDURES

WAC

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PART I
PERMITS FOR DEVELOPMENT ON SHORELINES OF THE STATE

WAC 173-27-010 Authority. The provisions of this part implement the requirements of chapter 90.58 RCW, the Shoreline Management Act. Specifically, RCW 90.58.200 authorizes the adoption of rules as necessary to implement the provisions of the act and RCW 90.58.140(3) requires that the department adopt rules for administration and enforcement of the permit system established by the act.

[Statutory Authority: RCW 90.58.140(3) and [90.58].200. 96-20-075 (Order 95-17), § 173-27-010, filed 9/30/96, effective 10/31/96.]

WAC 173-27-020 Purpose. RCW 90.58.140(3) requires local governments to establish a program, consistent with rules adopted by the department of ecology, for the administration and enforcement of the permit system for shoreline management. The local program should be integrated with other local government systems for administration and enforcement of land use regulations. It is the intent of these regulations to provide minimum procedural requirements as necessary to comply with statutory requirements while providing latitude for local government to establish procedural systems based on local needs and circumstances. It is also the intent of these regulations to provide for integration of the shoreline permit into a consolidated environmental review and permit process.

This regulation is drafted to also reflect RCW 90.58.050 which provides that the Shoreline Management Act is intended to establish a cooperative program between local government and the state. According to this provision, local government shall have the primary responsibility for initiating the planning required by the act and administering the regulatory program of shoreline management consistent with the policy and provisions of the act, whereas the department shall act primarily in a supportive and review capacity with an emphasis on providing assistance to local government and on insuring compliance with the policies and provisions of the Shoreline Management Act.

[Statutory Authority: RCW 90.58.140(3) and [90.58].200. 96-20-075 (Order 95-17), § 173-27-020, filed 9/30/96, effective 10/31/96.]

WAC 173-27-030 Definitions. The following definitions shall apply:

(1) "Act" means chapter 90.58 RCW, the Shoreline Management Act of 1971, as amended;

(2) "Applicable master program" means the master program approved or adopted by the department pursuant to RCW 90.58.090(6) or 90.58.190(4) prior to acceptance of a complete application by local government;

(3) "Average grade level" means the average of the natural or existing topography of the portion of the lot, parcel, or tract of real property which will be directly under the proposed building or structure: In the case of structures to be built over water, average grade level shall be the elevation of the ordinary high water mark. Calculation of the average grade level shall be made by averaging the ground elevations at the midpoint of all exterior walls of the proposed building or structure;

(4) "Conditional use" means a use, development, or substantial development which is classified as a conditional use or is not classified within the applicable master program;

(5) "Department" means the department of ecology;

(6) "Development" means a use consisting of the construction or exterior alteration of structures; dredging; drilling; dumping; filling; removal of any sand, gravel, or minerals; bulkheading; driving of piling; placing of obstructions; or any project of a permanent or temporary nature which interferes with the normal public use of the surface of the waters overlying lands subject to the act at any stage of water level;

(7) "Exempt" developments are those set forth in WAC 173-27-040 and RCW 90.58.030 (3)(e), 90.58.140(9), 90.58.147, 90.58.355, and 90.58.515 which are not required to obtain a substantial development permit but which must otherwise comply with applicable provisions of the act and the local master program;

(8) "Fair market value" of a development is the open market bid price for conducting the work, using the equipment and facilities, and purchase of the goods, services and materials necessary to accomplish the development. This would normally equate to the cost of hiring a contractor to undertake the development from start to finish, including the cost of labor, materials, equipment and facility usage, transportation and contractor overhead and profit. The fair market value of the development shall include the fair market value of any donated, contributed or found labor, equipment or materials;

(9) "Height" is measured from average grade level to the highest point of a structure: Provided, That television antennas, chimneys, and similar appurtenances shall not be used in calculating height, except where such appurtenances obstruct the view of the shoreline of a substantial number of residences on areas adjoining such shorelines, or the applicable master program specifically requires that such appurtenances be included: Provided further, That temporary construction equipment is excluded in this calculation;

(10) "Local government" means any county, incorporated city, or town which contains within its boundaries any lands or waters subject to chapter 90.58 RCW;

(11) "Natural or existing topography" means the topography of the lot, parcel, or tract of real property immediately prior to any site preparation or grading, including excavation or filling;

(12) "Party of record" includes all persons, agencies or organizations who have submitted written comments in response to a notice of application; made oral comments in a formal public hearing conducted on the application; or notified local government of their desire to receive a copy of the final decision on a permit and who have provided an address for delivery of such notice by mail;

(13) "Permit" means any substantial development, variance, conditional use permit, or revision authorized under chapter 90.58 RCW;

(14) "Public interest" means the interest shared by the citizens of the state or community at large in the affairs of government, or some interest by which their rights or liabilities are affected including, but not limited to, an effect on public property or on health, safety, or general welfare resulting from a use or development;

(15) "Structure" means a permanent or temporary edifice or building, or any piece of work artificially built or composed of parts joined together in some definite manner, whether installed on, above, or below the surface of the ground or water, except for vessels;

(16) "Transmit" means to send from one person or place to another by mail or hand delivery. The date of transmittal for mailed items is the date that the document is certified for mailing or, for hand-delivered items, is the date of receipt at the destination;

(17) "Variance" is a means to grant relief from the specific bulk, dimensional or performance standards set forth in the applicable master program and not a means to vary a use of a shoreline;

(18) "Vessel" includes ships, boats, barges, or any other floating craft which are designed and used for navigation and do not interfere with the normal public use of the water;

(19) The definitions and concepts set forth in RCW 90.58.030, and chapters 173-25 and 173-26 WAC also apply as used in this chapter.

[Statutory Authority: RCW 90.58.140(3) and [90.58].200. 96-20-075 (Order 95-17), § 173-27-030, filed 9/30/96, effective 10/31/96.]

WAC 173-27-040 Developments exempt from substantial development permit requirement. (1) Application and interpretation of exemptions.

(a) Exemptions shall be construed narrowly. Only those developments that meet the precise terms of one or more of the listed exemptions may be granted exemption from the substantial development permit process.

(b) An exemption from the substantial development permit process is not an exemption from compliance with the act or the local master program, nor from any other regulatory requirements. To be authorized, all uses and developments must be consistent with the policies and provisions of the applicable master program and the Shoreline Management Act. A development or use that is listed as a conditional use pursuant to the local master program or is an unlisted use, must obtain a conditional use permit even though the development or use does not require a substantial development permit. When a development or use is proposed that does not comply with the bulk, dimensional and performance standards of the master program, such development or use can only be authorized by approval of a variance.

(c) The burden of proof that a development or use is exempt from the permit process is on the applicant.

(d) If any part of a proposed development is not eligible for exemption, then a substantial development permit is required for the entire proposed development project.

(e) Local government may attach conditions to the approval of exempted developments and/or uses as necessary to assure consistency of the project with the act and the local master program.

(2) The following developments shall not require substantial development permits:

(a) Any development of which the total cost or fair market value, whichever is higher, does not exceed two thousand five hundred dollars, if such development does not materially interfere with the normal public use of the water or shorelines of the state. For purposes of determining whether or not a permit is required, the total cost or fair market value shall be based on the value of development that is occurring on shorelines of the state as defined in RCW 90.58.030 (2)(c). The total cost or fair market value of the development shall include the fair market value of any donated, contributed or found labor, equipment or materials;

(b) Normal maintenance or repair of existing structures or developments, including damage by accident, fire or elements. "Normal maintenance" includes those usual acts to prevent a decline, lapse, or cessation from a lawfully established condition. "Normal repair" means to restore a development to a state comparable to its original condition, including but not limited to its size, shape, configuration, location and external appearance, within a reasonable period after decay or partial destruction, except where repair causes substantial adverse effects to shoreline resource or environment. Replacement of a structure or development may be authorized as repair where such replacement is the common method of repair for the type of structure or development and the replacement structure or development is comparable to the original structure or development including but not limited to its size, shape, configuration, location and external appearance and the replacement does not cause substantial adverse effects to shoreline resources or environment;

(c) Construction of the normal protective bulkhead common to single-family residences. A "normal protective" bulkhead includes those structural and nonstructural developments installed at or near, and parallel to, the ordinary high water mark for the sole purpose of protecting an existing single-family residence and appurtenant structures from loss or damage by erosion. A normal protective bulkhead is not exempt if constructed for the purpose of creating dry land. When a vertical or near vertical wall is being constructed or reconstructed, not more than one cubic yard of fill per one foot of wall may be used as backfill. When an existing bulkhead is being repaired by construction of a vertical wall fronting the existing wall, it shall be constructed no further water-

ward of the existing bulkhead than is necessary for construction of new footings. When a bulkhead has deteriorated such that an ordinary high water mark has been established by the presence and action of water landward of the bulkhead then the replacement bulkhead must be located at or near the actual ordinary high water mark. Beach nourishment and bioengineered erosion control projects may be considered a normal protective bulkhead when any structural elements are consistent with the above requirements and when the project has been approved by the department of fish and wildlife.

(d) Emergency construction necessary to protect property from damage by the elements. An "emergency" is an unanticipated and imminent threat to public health, safety, or the environment which requires immediate action within a time too short to allow full compliance with this chapter. Emergency construction does not include development of new permanent protective structures where none previously existed. Where new protective structures are deemed by the administrator to be the appropriate means to address the emergency situation, upon abatement of the emergency situation the new structure shall be removed or any permit which would have been required, absent an emergency, pursuant to chapter 90.58 RCW, these regulations, or the local master program, obtained. All emergency construction shall be consistent with the policies of chapter 90.58 RCW and the local master program. As a general matter, flooding or other seasonal events that can be anticipated and may occur but that are not imminent are not an emergency;

(e) Construction and practices normal or necessary for farming, irrigation, and ranching activities, including agricultural service roads and utilities on shorelands, construction of a barn or similar agricultural structure, and the construction and maintenance of irrigation structures including but not limited to head gates, pumping facilities, and irrigation channels: Provided, That a feedlot of any size, all processing plants, other activities of a commercial nature, alteration of the contour of the shorelands by leveling or filling other than that which results from normal cultivation, shall not be considered normal or necessary farming or ranching activities. A feedlot shall be an enclosure or facility used or capable of being used for feeding livestock hay, grain, silage, or other livestock feed, but shall not include land for growing crops or vegetation for livestock feeding and/or grazing, nor shall it include normal livestock wintering operations;

(f) Construction or modification, by or under the authority of the Coast Guard or a designated port management authority, of navigational aids such as channel markers and anchor buoys;

(g) Construction on shorelands by an owner, lessee or contract purchaser of a single-family residence for their own use or for the use of their family, which residence does not exceed a height of thirty-five feet above average grade level and which meets all requirements of the state agency or local government having jurisdiction thereof. "Single-family residence" means a detached dwelling designed for and occupied by one family including those structures and developments within a contiguous ownership which are a normal appurtenance. An "appurtenance" is necessarily connected to the use and enjoyment of a single-family residence and is located landward of the ordinary high water mark and the perimeter of a wetland. On a statewide basis, normal appurtenances include a garage; deck; driveway; utilities; fences; installation of a septic tank and drainfield and grading which does not exceed two hundred fifty cubic yards and which does not involve placement of fill in any wetland or waterward of the ordinary high water mark. Local circumstances may dictate additional interpretations of normal appurtenances which shall be set forth and regulated within the applicable master program. Construction authorized under this exemption shall be located landward of the ordinary high water mark;

(h) Construction of a dock, including a community dock, designed for pleasure craft only, for the private noncommercial use of the owners, lessee, or contract purchaser of a single-family and multiple-family residences. A dock is a landing and moorage facility for watercraft and does not include recreational decks, storage facilities or other appurtenances. This exception applies if either:

(i) In salt waters, the fair market value of the dock does not exceed two thousand five hundred dollars; or

(ii) In fresh waters the fair market value of the dock does not exceed ten thousand dollars, but if subsequent construction having a fair market value exceeding two thousand five hundred dollars occurs within five years of completion of the prior construction, the subsequent construction shall be considered a substantial development for the purpose of this chapter.

For purposes of this section salt water shall include the tidally influenced marine and estuarine water areas of the state including the Pacific Ocean, Strait of Juan de Fuca, Strait of Georgia and Puget Sound and all bays and inlets associated with any of the above;

(i) Operation, maintenance, or construction of canals, waterways, drains, reservoirs, or other facilities that now exist or are hereafter created or developed as a part of an irrigation system for the primary purpose of making use of system waters, including return flow and artificially stored ground water from the irrigation of lands;

(j) The marking of property lines or corners on state-owned lands, when such marking does not significantly interfere with normal public use of the surface of the water;

(k) Operation and maintenance of any system of dikes, ditches, drains, or other facilities existing on June 4, 1975, which were created, developed or utilized primarily as a part of an agricultural drainage or diking system;

(l) Any project with a certification from the governor pursuant to chapter 80.50 RCW;

(m) Site exploration and investigation activities that are prerequisite to preparation of an application for development authorization under this chapter, if:

(i) The activity does not interfere with the normal public use of the surface waters;

(ii) The activity will have no significant adverse impact on the environment including but not limited to fish, wildlife, fish or wildlife habitat, water quality, and aesthetic values;

(iii) The activity does not involve the installation of any structure, and upon completion of the activity the vegetation and land configuration of the site are restored to conditions existing before the activity;

(iv) A private entity seeking development authorization under this section first posts a performance bond or provides

other evidence of financial responsibility to the local jurisdiction to ensure that the site is restored to preexisting conditions; and

(v) The activity is not subject to the permit requirements of RCW 90.58.550;

(n) The process of removing or controlling aquatic noxious weeds, as defined in RCW 17.26.020, through the use of an herbicide or other treatment methods applicable to weed control that are recommended by a final environmental impact statement published by the department of agriculture or the department of ecology jointly with other state agencies under chapter 43.21C RCW;

(o) Watershed restoration projects as defined herein. Local government shall review the projects for consistency with the shoreline master program in an expeditious manner and shall issue its decision along with any conditions within forty-five days of receiving all materials necessary to review the request for exemption from the applicant. No fee may be charged for accepting and processing requests for exemption for watershed restoration projects as used in this section.

(i) "Watershed restoration project" means a public or private project authorized by the sponsor of a watershed restoration plan that implements the plan or a part of the plan and consists of one or more of the following activities:

(A) A project that involves less than ten miles of stream-reach, in which less than twenty-five cubic yards of sand, gravel, or soil is removed, imported, disturbed or discharged, and in which no existing vegetation is removed except as minimally necessary to facilitate additional plantings;

(B) A project for the restoration of an eroded or unstable stream bank that employs the principles of bioengineering, including limited use of rock as a stabilization only at the toe of the bank, and with primary emphasis on using native vegetation to control the erosive forces of flowing water; or

(C) A project primarily designed to improve fish and wildlife habitat, remove or reduce impediments to migration of fish, or enhance the fishery resource available for use by all of the citizens of the state, provided that any structure, other than a bridge or culvert or instream habitat enhancement structure associated with the project, is less than two hundred square feet in floor area and is located above the ordinary high water mark of the stream.

(ii) "Watershed restoration plan" means a plan, developed or sponsored by the department of fish and wildlife, the department of ecology, the department of natural resources, the department of transportation, a federally recognized Indian tribe acting within and pursuant to its authority, a city, a county, or a conservation district that provides a general program and implementation measures or actions for the preservation, restoration, re-creation, or enhancement of the natural resources, character, and ecology of a stream, stream segment, drainage area, or watershed for which agency and public review has been conducted pursuant to chapter 43.21C RCW, the State Environmental Policy Act;

(p) A public or private project, the primary purpose of which is to improve fish or wildlife habitat or fish passage, when all of the following apply:

(i) The project has been approved in writing by the department of fish and wildlife as necessary for the improvement of the habitat or passage and appropriately designed and sited to accomplish the intended purpose;

(ii) The project has received hydraulic project approval by the department of fish and wildlife pursuant to chapter 75.20 RCW; and

(iii) The local government has determined that the project is consistent with the local shoreline master program. The local government shall make such determination in a timely manner and provide it by letter to the project proponent.

(3) Hazardous substance remedial actions. The procedural requirements of chapter 90.58 RCW shall not apply to a project for which a consent decree, order or agreed order has been issued pursuant to chapter 70.105D RCW or to the department of ecology when it conducts a remedial action under chapter 70.105D RCW. The department shall, in consultation with the appropriate local government, assure that such projects comply with the substantive requirements of chapter 90.58 RCW, chapter 173-26 WAC and the local master program.

[Statutory Authority: RCW 90.58.140(3) and [90.58].200. 96-20-075 (Order 95-17), § 173-27-040, filed 9/30/96, effective 10/31/96.]

WAC 173-27-050 Letter of exemption. Some projects conducted on shorelines of the state also require review and approval by federal agencies. Ecology is designated as the coordinating agency for the state with regard to permits issued by the U.S. Army Corps of Engineers. The following is intended to facilitate ecology's coordination of local actions, with regard to exempt development, with federal permit review.

(1) The local government shall prepare a letter of exemption, addressed to the applicant and the department, whenever a development is determined by a local government to be exempt from the substantial development permit requirements and the development is subject to one or more of the following federal permit requirements:

(a) A U.S. Army Corps of Engineers section 10 permit under the Rivers and Harbors Act of 1899; (The provisions of section 10 of the Rivers and Harbors Act generally apply to any project occurring on or over navigable waters. Specific applicability information should be obtained from the Corps of Engineers.) or

(b) A section 404 permit under the Federal Water Pollution Control Act of 1972. (The provisions of section 404 of the Federal Water Pollution Control Act generally apply to any project which may involve discharge of dredge or fill material to any water or wetland area. Specific applicability information should be obtained from the Corps of Engineers.)

(2) The letter shall indicate the specific exemption provision from WAC 173-27-040 that is being applied to the development and provide a summary of the local government's analysis of the consistency of the project with the master program and the act.

(3) Local government may specify other developments not described within subsection (1) of this section as requiring a letter of exemption prior to commencement of the development.

[Statutory Authority: RCW 90.58.140(3) and [90.58].200. 96-20-075 (Order 95-17), § 173-27-050, filed 9/30/96, effective 10/31/96.]

WAC 173-27-060 Applicability of chapter 90.58 RCW to federal lands and agencies. The policies and provisions of chapter 90.58 RCW including the permit system shall be applied in the following manner to federal agencies on lands meeting the criteria of the Shoreline Management Act for shorelines of the state.

(1) Within the coastal counties.

Direct federal agency actions and projects shall be consistent to the maximum extent practicable with the approved Washington state coastal zone management program subject to certain limitations set forth in the Federal Coastal Zone Management Act, 16 U.S.C. 1451 et seq. (CZMA) and regulations adopted pursuant thereto. Other applicable federal law governing the federal agency actions may determine whether the permit system of chapter 90.58 RCW is applicable.

The Shoreline Management Act is incorporated into the Washington state coastal zone management plan and, thereby, those direct federal actions occurring on lands subject to the act must be consistent to the maximum practicable extent with the act, regulations adopted pursuant to the act and with the local master program. Local government is in the best position to determine the appropriate procedure for review of federal development activities at the local level while the state must take action on federal consistency determinations submitted to it.

(a) When the department receives a consistency determination for a development proposed by the federal government on land subject to the act, it shall request that local government review the proposal and respond in writing that the local government:

(i) Cannot make a determination of the consistency of the project with the master program without reviewing the project in the regular permit process; or

(ii) Has reviewed the project for consistency with the local master program without using the permit system. Local government may recommend that the project be approved, approved only under certain specified conditions or denied.

(iii) Defers review of the project to the state.

(b) Upon receipt of a response from local government that a permit is required to make a determination, the department shall inform the requesting agency of the local government finding and shall indicate that concurrence with the consistency determination cannot be granted until a permit is issued. If the local government chooses to review and make a recommendation without using the permit system it shall so notify the department and submit its recommendation to the department within thirty days unless a longer period of time is agreed to by the federal agency and the department. If no response is received from local government within thirty days they shall be deemed to have deferred review of the project.

(c) Nothing in this section shall be deemed to preclude independent review of the project by the state pursuant to any appropriate authority consistent with the approved coastal zone management plan.

(d) The coastal counties, as established in Washington's approved coastal zone management plan, consist of the following counties: Whatcom, Skagit, San Juan, Island, Snohomish, King, Pierce, Thurston, Mason, Kitsap, Jefferson, Clallam, Grays Harbor, Pacific and Wahkiakum.

(2) Outside of the coastal counties.

(a) Direct federal agency actions that are reasonably likely to affect any coastal use or resource shall be consistent with the approved coastal zone management plan to the maximum extent practicable subject to limitations set forth in the Federal Coastal Zone Management Act, 16 U.S.C. 1451 et seq.(CZMA) and regulations adopted pursuant thereto. Other applicable federal law governing the federal agency actions may determine whether the permit system of chapter 90.58 RCW is applicable.

(b) Except as provided in (a) of this subsection, federal agencies shall not be required to obtain permits for developments undertaken by the federal government on lands owned in fee by the federal government or on easements obtained by the federal government for a specified purpose where the proposed development is consistent with the specified purpose, unless under either circumstance the federal government grants or reserves to the state or local government substantial jurisdiction over activities on those lands.

(c) Except as provided in (a) of this subsection, the permit system shall apply to developments undertaken on lands not federally owned but under lease, license, or other similar federal property rights short of fee ownership, to the federal government.

(3) The policies and provisions of chapter 90.58 RCW, including the permit system, shall apply statewide to all nonfederal developments and uses undertaken on federal lands and on lands subject to nonfederal ownership, lease or easement, even though such lands may fall within the external boundaries of a federal ownership.

[Statutory Authority: RCW 90.58.140(3) and [90.58].200. 96-20-075 (Order 95-17), § 173-27-060, filed 9/30/96, effective 10/31/96.]

WAC 173-27-070 Application of the permit system to substantial development undertaken prior to the effective date of the act. (1) Substantial development undertaken on the shorelines of the state prior to the effective date of the act shall not require a permit except under the following circumstances:

(a) When the activity was unlawful prior to the effective date of the act.

(b) When there has been an unreasonable period of dormancy in the project between its inception and the effective date of the act.

(c) When the development is not completed within two years after the effective date of the act.

(d) When substantial development occurred prior to the effective date of the act on a shoreline and continued on to a different lake, river or tributary after the effective date, a permit shall be required for the development undertaken after the effective date.

(e) Substantial development undertaken prior to the effective date of the act shall not continue without a permit into other phases that were not part of the plan being followed at the time construction commenced.

(2) When a change in the area subject to the jurisdiction of the act occurs as a result of a determination of jurisdiction by the department based on the provisions of RCW 90.58.030 (2)(d) or (e), the effective date of the act shall be the date the

department provides written notice of the change to the local government(s) in which the affected area is located.

[Statutory Authority: RCW 90.58.140(3) and [90.58].200. 96-20-075 (Order 95-17), § 173-27-070, filed 9/30/96, effective 10/31/96.]

WAC 173-27-080 Nonconforming use and development standards. When nonconforming use and development standards do not exist in the applicable master program, the following definitions and standards shall apply:

(1) "Nonconforming use or development" means a shoreline use or development which was lawfully constructed or established prior to the effective date of the act or the applicable master program, or amendments thereto, but which does not conform to present regulations or standards of the program.

(2) Structures that were legally established and are used for a conforming use but which are nonconforming with regard to setbacks, buffers or yards; area; bulk; height or density may be maintained and repaired and may be enlarged or expanded provided that said enlargement does not increase the extent of nonconformity by further encroaching upon or extending into areas where construction or use would not be allowed for new development or uses.

(3) Uses and developments that were legally established and are nonconforming with regard to the use regulations of the master program may continue as legal nonconforming uses. Such uses shall not be enlarged or expanded, except that nonconforming single-family residences that are located landward of the ordinary high water mark may be enlarged or expanded in conformance with applicable bulk and dimensional standards by the addition of space to the main structure or by the addition of normal appurtenances as defined in WAC 173-27-040 (2)(g) upon approval of a conditional use permit.

(4) A use which is listed as a conditional use but which existed prior to adoption of the master program or any relevant amendment and for which a conditional use permit has not been obtained shall be considered a nonconforming use. A use which is listed as a conditional use but which existed prior to the applicability of the master program to the site and for which a conditional use permit has not been obtained shall be considered a nonconforming use.

(5) A structure for which a variance has been issued shall be considered a legal nonconforming structure and the requirements of this section shall apply as they apply to preexisting nonconformities.

(6) A structure which is being or has been used for a nonconforming use may be used for a different nonconforming use only upon the approval of a conditional use permit. A conditional use permit may be approved only upon a finding that:

(a) No reasonable alternative conforming use is practical; and

(b) The proposed use will be at least as consistent with the policies and provisions of the act and the master program and as compatible with the uses in the area as the preexisting use.

In addition such conditions may be attached to the permit as are deemed necessary to assure compliance with the above findings, the requirements of the master program and the Shoreline Management Act and to assure that the use will not become a nuisance or a hazard.

(7) A nonconforming structure which is moved any distance must be brought into conformance with the applicable master program and the act.

(8) If a nonconforming development is damaged to an extent not exceeding seventy-five percent of the replacement cost of the original development, it may be reconstructed to those configurations existing immediately prior to the time the development was damaged, provided that application is made for the permits necessary to restore the development within six months of the date the damage occurred, all permits are obtained and the restoration is completed within two years of permit issuance.

(9) If a nonconforming use is discontinued for twelve consecutive months or for twelve months during any two-year period, the nonconforming rights shall expire and any subsequent use shall be conforming. A use authorized pursuant to subsection (6) of this section shall be considered a conforming use for purposes of this section.

(10) An undeveloped lot, tract, parcel, site, or division of land located landward of the ordinary high water mark which was established in accordance with local and state subdivision requirements prior to the effective date of the act or the applicable master program but which does not conform to the present lot size standards may be developed if permitted by other land use regulations of the local government and so long as such development conforms to all other requirements of the applicable master program and the act.

[Statutory Authority: RCW 90.58.140(3) and [90.58].200. 96-20-075 (Order 95-17), § 173-27-080, filed 9/30/96, effective 10/31/96.]

WAC 173-27-090 Time requirements of permit. The following time requirements shall apply to all substantial development permits and to any development authorized pursuant to a variance or conditional use permit.

(1) Upon a finding of good cause, based on the requirements and circumstances of the project proposed and consistent with the policy and provisions of the master program and the act, local government may adopt appropriate time limits as a part of action on a substantial development permit and local government, with the approval of the department, may adopt appropriate time limits as a part of action on a conditional use or variance permit: "Good cause based on the requirements and circumstances of the project," shall mean that the time limits established are reasonably related to the time actually necessary to perform the development on the ground and complete the project that is being permitted, and/or are necessary for the protection of shoreline resources.

(2) Where neither local government nor the department include specific provisions establishing time limits on a permit as a part of action on the permit, the following time limits shall apply:

(a) Construction shall be commenced or, where no construction is involved, the use or activity shall be commenced within two years of the effective date of a shoreline permit. Provided, that local government may authorize a single extension for a period not to exceed one year based on reasonable factors, if a request for extension has been filed

before the expiration date and notice of the proposed extension is given to parties of record and the department.

(b) Authorization to conduct development activities shall terminate five years after the effective date of a shoreline permit. Provided, that local government may authorize a single extension for a period not to exceed one year based on reasonable factors, if a request for extension has been filed before the expiration date and notice of the proposed extension is given to parties of record and the department.

(3) The effective date of a shoreline permit shall be the date of the last action required on the shoreline permit and all other government permits and approvals that authorize the development to proceed, including all administrative and legal actions on any such permit or approval. It is the responsibility of the applicant to inform the local government of the pendency of other permit applications filed with agencies other than the local government and of any related administrative and legal actions on any permit or approval. If no notice of the pendency of other permits or approvals is given to the local government prior to the date established by the shoreline permit or the provisions of this section, the expiration of a permit shall be based on the shoreline permit.

(4) When permit approval is based on conditions, such conditions shall be satisfied prior to occupancy or use of a structure or prior to commencement of a nonstructural activity: Provided, That an alternative compliance limit may be specified in the permit.

(5) Revisions to permits under WAC 173-27-100 may be authorized after original permit authorization has expired under subsection (2) of this section: Provided, That this procedure shall not be used to extend the original permit time requirements or to authorize substantial development after the time limits of the original permit.

(6) Local government shall notify the department in writing of any change to the effective date of a permit, as authorized by this section, with an explanation of the basis for approval of the change. Any change to the time limits of a permit other than those authorized by this section shall require a new permit application.

[Statutory Authority: RCW 90.58.140(3) and [90.58].200. 96-20-075 (Order 95-17), § 173-27-090, filed 9/30/96, effective 10/31/96.]

WAC 173-27-100 Revisions to permits. A permit revision is required whenever the applicant proposes substantive changes to the design, terms or conditions of a project from that which is approved in the permit. Changes are substantive if they materially alter the project in a manner that relates to its conformance to the terms and conditions of the permit, the master program and/or the policies and provisions of chapter 90.58 RCW. Changes which are not substantive in effect do not require approval of a revision.

When an applicant seeks to revise a permit, local government shall request from the applicant detailed plans and text describing the proposed changes.

(1) If local government determines that the proposed changes are within the scope and intent of the original permit, and are consistent with the applicable master program and the act, local government may approve a revision.

(2) "Within the scope and intent of the original permit" means all of the following:

(a) No additional over water construction is involved except that pier, dock, or float construction may be increased by five hundred square feet or ten percent from the provisions of the original permit, whichever is less;

(b) Ground area coverage and height may be increased a maximum of ten percent from the provisions of the original permit;

(c) The revised permit does not authorize development to exceed height, lot coverage, setback, or any other requirements of the applicable master program except as authorized under a variance granted as the original permit or a part thereof;

(d) Additional or revised landscaping is consistent with any conditions attached to the original permit and with the applicable master program;

(e) The use authorized pursuant to the original permit is not changed; and

(f) No adverse environmental impact will be caused by the project revision.

(3) Revisions to permits may be authorized after original permit authorization has expired under WAC 173-27-080(2). The purpose of such revisions shall be limited to authorization of changes which are consistent with this section and which would not require a permit for the development or change proposed under the terms of chapter 90.58 RCW, this regulation and the local master program. If the proposed change constitutes substantial development then a new permit is required. Provided, this subsection shall not be used to extend the time requirements or to authorize substantial development beyond the time limits of the original permit.

(4) If the sum of the revision and any previously approved revisions under former WAC 173-14-064 or this section violate the provisions in subsection (2) of this section, local government shall require that the applicant apply for a new permit.

(5) The revision approval, including the revised site plans and text consistent with the provisions of WAC 173-27-180 as necessary to clearly indicate the authorized changes, and the final ruling on consistency with this section shall be filed with the department. In addition, local government shall notify parties of record of their action.

(6) If the revision to the original permit involves a conditional use or variance, local government shall submit the revision to the department for the department's approval, approval with conditions, or denial, and shall indicate that the revision is being submitted under the requirements of this subsection. The department shall render and transmit to local government and the applicant its final decision within fifteen days of the date of the department's receipt of the submittal from local government. Local government shall notify parties of record of the department's final decision.

(7) The revised permit is effective immediately upon final decision by local government or, when appropriate under subsection (6) of this section, upon final action by the department.

(8) Appeals shall be in accordance with RCW 90.58.180 and shall be filed within twenty-one days from the date of receipt of the local government's action by the department or, when appropriate under subsection (6) of this section, the date the department's final decision is transmitted to local

government and the applicant. Appeals shall be based only upon contentions of noncompliance with the provisions of subsection (2) of this section. Construction undertaken pursuant to that portion of a revised permit not authorized under the original permit is at the applicant's own risk until the expiration of the appeals deadline. If an appeal is successful in proving that a revision is not within the scope and intent of the original permit, the decision shall have no bearing on the original permit.

[Statutory Authority: RCW 90.58.140(3) and [90.58].200. 96-20-075 (Order 95-17), § 173-27-100, filed 9/30/96, effective 10/31/96.]

WAC 173-27-110 Notice required. (1) Local government shall develop and adopt a system which provides for notification of the public, the department and other agencies with jurisdiction of applications for a shoreline management substantial development, conditional use, or variance permit. Notification pursuant to this section may be carried out as a part of an integrated local permit notification procedure.

(2) The system shall assure that notice of application shall be provided within fourteen days after the determination of completeness as provided in RCW 36.70B.070 and WAC 173-27-180, and include the following in whatever sequence or format the local government deems appropriate:

(a) The date of application, the date of the notice of completion for the application, and the date of the notice of application;

(b) A description of the proposed project action and a list of the project permits included in the application and, if applicable, a list of any studies requested under RCW 36.70B.070, 36.70B.090 and WAC 173-27-180;

(c) The identification of other permits not included in the application to the extent known by the local government;

(d) The identification of existing environmental documents that evaluate the proposed project, and, if not otherwise stated on the document providing the notice of application, such as a city land use bulletin, the location where the application and any studies can be reviewed;

(e) A statement of the public comment period, which shall be not less than thirty days following the date of notice of application, and statements of the right of any person to comment on the application, receive notice of and participate in any hearings, request a copy of the decision once made, and any appeal rights. A local government may accept public comments at any time prior to the closing of the record of an open record predecision hearing, if any, or, if no open record predecision hearing is provided, prior to the decision on the project permit;

(f) The date, time, place, and type of hearing, if applicable and scheduled at the date of notice of the application;

(g) A statement of the preliminary determination, if one has been made at the time of notice, of those development regulations that will be used for project mitigation and of consistency; and

(h) Any other information determined appropriate by the local government.

(3) If an open record predecision hearing, as defined in RCW 36.70B.020, is required for the requested project permits, the notice of application shall be provided at least fifteen days prior to the open record hearing.

(4) The notification system shall assure that notice to the general public and property owners in the vicinity of such application is given by at least one of the following methods:

(a) Mailing of the notice to the latest recorded real property owners as shown by the records of the county assessor within at least three hundred feet of the boundary of the property upon which the development is proposed;

(b) Posting of the notice in a conspicuous manner on the property upon which the project is to be undertaken; or

(c) Any other manner deemed appropriate by local authorities to accomplish the objectives of reasonable notice to adjacent landowners and the public.

(5) The notification system shall provide for timely notification of individuals and organizations that request such notice in writing.

(6) The notification system shall provide notice to all agencies with jurisdiction per chapter 43.21C RCW and to all other agencies that request in writing any such notice.

[Statutory Authority: RCW 90.58.140(3) and [90.58].200. 96-20-075 (Order 95-17), § 173-27-110, filed 9/30/96, effective 10/31/96.]

WAC 173-27-120 Special procedures for limited utility extensions and bulkheads. (1) An application for a substantial development permit for a limited utility extension or for the construction of a bulkhead or other measures to protect a single-family residence and its appurtenant structures from shoreline erosion shall be subject to all of the requirements of this chapter except that the following time periods and procedures shall be used:

(a) The public comment period shall be twenty days. The notice provided shall state the manner in which the public may obtain a copy of the local government decision on the application no later than two days following its issuance;

(b) The local government shall issue its decision to grant or deny the permit within twenty-one days of the last day of the comment period specified in subsection (2)(a) of this section; and

(c) If there is an appeal of the decision to grant or deny the permit to the local government legislative authority, the appeal shall be finally determined by the legislative authority within thirty days.

(2) For purposes of this section, a limited utility extension means the extension of a utility service that:

(a) Is categorically exempt under chapter 43.21C RCW for one or more of the following: Natural gas, electricity, telephone, water, or sewer;

(b) Will serve an existing use in compliance with this chapter; and

(c) Will not extend more than two thousand five hundred linear feet within the shorelines of the state.

[Statutory Authority: RCW 90.58.140(3) and [90.58].200. 96-20-075 (Order 95-17), § 173-27-120, filed 9/30/96, effective 10/31/96.]

WAC 173-27-130 Filing with department. (1) All applications for a permit or a permit revision shall be submitted to the department upon a final decision by local government. Final decision by local government shall mean the order or ruling, whether it be an approval or denial, which is established after all local administrative appeals related to the

permit have concluded or the opportunity to initiate such appeals have lapsed.

(2) When a substantial development permit and a conditional use or variance permit are required for a development, the submittal on the permits shall be made concurrently.

(3) A complete submittal shall consist of the following documents and information:

(a) A copy of the complete application pursuant to WAC 173-27-180;

(b) Findings and conclusions that establish the basis for the decision including but not limited to identification of shoreline environment designation, applicable master program policies and regulations and the consistency of the project with appropriate review criteria for the type of permit(s) as established in WAC 173-27-140 through 173-27-170;

(c) The final decision of the local government;

(d) The permit data sheet required by WAC 173-27-190; and

(e) Where applicable, local government shall also file the applicable documents required by chapter 43.21C RCW, the State Environmental Policy Act, or in lieu thereof, a statement summarizing the actions and dates of such actions taken under chapter 43.21C RCW.

(4) When the project has been modified in the course of the local review process, plans or text shall be provided to the department that clearly indicate the final approved plan.

(5) Submittal of substantial development permits, conditional use permits, variances, rescissions and revisions is complete when all of the documents required pursuant to subsections (3) and (4) of this section have been received by the department. If the department determines that the submittal does not contain all of the documents and information required by this section, the department shall identify the deficiencies and so notify local government and the applicant in writing. The submittal and permit are void unless and until the material requested in writing is submitted to the department.

(6) "Date of filing" of a local government final decision involving approval or denial of a substantial development permit, or involving a denial of a variance or conditional use permit, is the date of actual receipt of a complete submittal by the department.

(7) "Date of filing" of a permit for a conditional use or variance approved by local government, and such permits which also involve concurrent submittal by local government of a substantial development permit, is the date of transmittal of the department's final decision on the variance or conditional use permit to local government and the applicant.

(8) The department shall provide a written notice to the local government and the applicant of the "date of filing."

(9) When a permit has been appealed pursuant to RCW 90.58.180, upon conclusion of all review proceedings, a copy of the final order shall be provided to the local government and the department. When the project has been modified in the course of the review proceeding, plans or text shall be provided to the local government, consistent with the provisions of WAC 173-27-180, that clearly indicate the final approved plan and the local government shall reissue the permit accordingly and submit a copy of the reissued permit and supporting documents consistent with subsection (3) of this section to the department for completion of the file on the permit. The purpose of this provision is to assure that the local and department files on the permit are complete and accurate and not to provide a new opportunity for appeal of the permit.

[Statutory Authority: RCW 90.58.140(3) and [90.58].200. 96-20-075 (Order 95-17), § 173-27-130, filed 9/30/96, effective 10/31/96.]

WAC 173-27-140 Review criteria for all development. (1) No authorization to undertake use or development on shorelines of the state shall be granted by the local government unless upon review the use or development is determined to be consistent with the policy and provisions of the Shoreline Management Act and the master program.

(2) No permit shall be issued for any new or expanded building or structure of more than thirty-five feet above average grade level on shorelines of the state that will obstruct the view of a substantial number of residences on areas adjoining such shorelines except where a master program does not prohibit the same and then only when overriding considerations of the public interest will be served.

[Statutory Authority: RCW 90.58.140(3) and [90.58].200. 96-20-075 (Order 95-17), § 173-27-140, filed 9/30/96, effective 10/31/96.]

WAC 173-27-150 Review criteria for substantial development permits. (1) A substantial development permit shall be granted only when the development proposed is consistent with:

(a) The policies and procedures of the act;

(b) The provisions of this regulation; and

(c) The applicable master program adopted or approved for the area. Provided, that where no master program has been approved for an area, the development shall be reviewed for consistency with the provisions of chapter 173-26 WAC, and to the extent feasible, any draft or approved master program which can be reasonably ascertained as representing the policy of the local government.

(2) Local government may attach conditions to the approval of permits as necessary to assure consistency of the project with the act and the local master program.

[Statutory Authority: RCW 90.58.140(3) and [90.58].200. 96-20-075 (Order 95-17), § 173-27-150, filed 9/30/96, effective 10/31/96.]

WAC 173-27-160 Review criteria for conditional use permits. The purpose of a conditional use permit is to provide a system within the master program which allows flexibility in the application of use regulations in a manner consistent with the policies of RCW 90.58.020. In authorizing a conditional use, special conditions may be attached to the permit by local government or the department to prevent undesirable effects of the proposed use and/or to assure consistency of the project with the act and the local master program.

(1) Uses which are classified or set forth in the applicable master program as conditional uses may be authorized provided that the applicant demonstrates all of the following:

(a) That the proposed use is consistent with the policies of RCW 90.58.020 and the master program;

(b) That the proposed use will not interfere with the normal public use of public shorelines;

(c) That the proposed use of the site and design of the project is compatible with other authorized uses within the area and with uses planned for the area under the comprehensive plan and shoreline master program;

(d) That the proposed use will cause no significant adverse effects to the shoreline environment in which it is to be located; and

(e) That the public interest suffers no substantial detrimental effect.

(2) In the granting of all conditional use permits, consideration shall be given to the cumulative impact of additional requests for like actions in the area. For example, if conditional use permits were granted for other developments in the area where similar circumstances exist, the total of the conditional uses shall also remain consistent with the policies of RCW 90.58.020 and shall not produce substantial adverse effects to the shoreline environment.

(3) Other uses which are not classified or set forth in the applicable master program may be authorized as conditional uses provided the applicant can demonstrate consistency with the requirements of this section and the requirements for conditional uses contained in the master program.

(4) Uses which are specifically prohibited by the master program may not be authorized pursuant to either subsection (1) or (2) of this section.

[Statutory Authority: RCW 90.58.140(3) and [90.58].200. 96-20-075 (Order 95-17), § 173-27-160, filed 9/30/96, effective 10/31/96.]

WAC 173-27-170 Review criteria for variance permits. The purpose of a variance permit is strictly limited to granting relief from specific bulk, dimensional or performance standards set forth in the applicable master program where there are extraordinary circumstances relating to the physical character or configuration of property such that the strict implementation of the master program will impose unnecessary hardships on the applicant or thwart the policies set forth in RCW 90.58.020.

(1) Variance permits should be granted in circumstances where denial of the permit would result in a thwarting of the policy enumerated in RCW 90.58.020. In all instances the applicant must demonstrate that extraordinary circumstances shall be shown and the public interest shall suffer no substantial detrimental effect.

(2) Variance permits for development and/or uses that will be located landward of the ordinary high water mark (OHWM), as defined in RCW 90.58.030 (2)(b), and/or landward of any wetland as defined in RCW 90.58.030 (2)(h), may be authorized provided the applicant can demonstrate all of the following:

(a) That the strict application of the bulk, dimensional or performance standards set forth in the applicable master program precludes, or significantly interferes with, reasonable use of the property;

(b) That the hardship described in (a) of this subsection is specifically related to the property, and is the result of unique conditions such as irregular lot shape, size, or natural features and the application of the master program, and not, for example, from deed restrictions or the applicant's own actions;

(c) That the design of the project is compatible with other authorized uses within the area and with uses planned for the area under the comprehensive plan and shoreline master program and will not cause adverse impacts to the shoreline environment;

(d) That the variance will not constitute a grant of special privilege not enjoyed by the other properties in the area;

(e) That the variance requested is the minimum necessary to afford relief; and

(f) That the public interest will suffer no substantial detrimental effect.

(3) Variance permits for development and/or uses that will be located waterward of the ordinary high water mark (OHWM), as defined in RCW 90.58.030 (2)(b), or within any wetland as defined in RCW 90.58.030 (2)(h), may be authorized provided the applicant can demonstrate all of the following:

(a) That the strict application of the bulk, dimensional or performance standards set forth in the applicable master program precludes all reasonable use of the property;

(b) That the proposal is consistent with the criteria established under subsection (2)(b) through (f) of this section; and

(c) That the public rights of navigation and use of the shorelines will not be adversely affected.

(4) In the granting of all variance permits, consideration shall be given to the cumulative impact of additional requests for like actions in the area. For example if variances were granted to other developments and/or uses in the area where similar circumstances exist the total of the variances shall also remain consistent with the policies of RCW 90.58.020 and shall not cause substantial adverse effects to the shoreline environment.

(5) Variances from the use regulations of the master program are prohibited.

[Statutory Authority: RCW 90.58.140(3) and [90.58].200. 96-20-075 (Order 95-17), § 173-27-170, filed 9/30/96, effective 10/31/96.]

WAC 173-27-180 Application requirements for substantial development, conditional use, or variance permit. A complete application for a substantial development, conditional use, or variance permit shall contain, as a minimum, the following information:

(1) The name, address and phone number of the applicant. The applicant should be the owner of the property or the primary proponent of the project and not the representative of the owner or primary proponent.

(2) The name, address and phone number of the applicant's representative if other than the applicant.

(3) The name, address and phone number of the property owner, if other than the applicant.

(4) Location of the property. This shall, at a minimum, include the property address and identification of the section, township and range to the nearest quarter, quarter section or latitude and longitude to the nearest minute. All applications for projects located in open water areas away from land shall provide a longitude and latitude location.

(5) Identification of the name of the shoreline (water body) that the site of the proposal is associated with. This

should be the water body from which jurisdiction of the act over the project is derived.

(6) A general description of the proposed project that includes the proposed use or uses and the activities necessary to accomplish the project.

(7) A general description of the property as it now exists including its physical characteristics and improvements and structures.

(8) A general description of the vicinity of the proposed project including identification of the adjacent uses, structures and improvements, intensity of development and physical characteristics.

(9) A site development plan consisting of maps and elevation drawings, drawn to an appropriate scale to depict clearly all required information, photographs and text which shall include:

(a) The boundary of the parcel(s) of land upon which the development is proposed.

(b) The ordinary high water mark of all water bodies located adjacent to or within the boundary of the project. This may be an approximate location provided, that for any development where a determination of consistency with the applicable regulations requires a precise location of the ordinary high water mark the mark shall be located precisely and the biological and hydrological basis for the location as indicated on the plans shall be included in the development plan. Where the ordinary high water mark is neither adjacent to or within the boundary of the project, the plan shall indicate the distance and direction to the nearest ordinary high water mark of a shoreline.

(c) Existing and proposed land contours. The contours shall be at intervals sufficient to accurately determine the existing character of the property and the extent of proposed change to the land that is necessary for the development. Areas within the boundary that will not be altered by the development may be indicated as such and contours approximated for that area.

(d) A delineation of all wetland areas that will be altered or used as a part of the development.

(e) A general indication of the character of vegetation found on the site.

(f) The dimensions and locations of all existing and proposed structures and improvements including but not limited to; buildings, paved or graveled areas, roads, utilities, septic tanks and drainfields, material stockpiles or surcharge, and stormwater management facilities.

(g) Where applicable, a landscaping plan for the project.

(h) Where applicable, plans for development of areas on or off the site as mitigation for impacts associated with the proposed project shall be included and contain information consistent with the requirements of this section.

(i) Quantity, source and composition of any fill material that is placed on the site whether temporary or permanent.

(j) Quantity, composition and destination of any excavated or dredged material.

(k) A vicinity map showing the relationship of the property and proposed development or use to roads, utilities, existing developments and uses on adjacent properties.

(l) Where applicable, a depiction of the impacts to views from existing residential uses and public areas.

(m) On all variance applications the plans shall clearly indicate where development could occur without approval of a variance, the physical features and circumstances on the property that provide a basis for the request, and the location of adjacent structures and uses.

[Statutory Authority: RCW 90.58.140(3) and [90.58].200. 96-20-075 (Order 95-17), § 173-27-180, filed 9/30/96, effective 10/31/96.]

WAC 173-27-190 Permits for substantial development, conditional use, or variance. (1) Each permit for a substantial development, conditional use or variance, issued by local government shall contain a provision that construction pursuant to the permit shall not begin and is not authorized until twenty-one days from the date of filing as defined in RCW 90.58.140(6) and WAC 173-27-130, or until all review proceedings initiated within twenty-one days from the date of such filing have been terminated; except as provided in RCW 90.58.140 (5)(a) and (b).

(2) Permits for substantial development, conditional use, or variance may be in any form prescribed and used by local government including a combined permit application form. Such forms will be supplied by local government.

(3) A permit data sheet shall be submitted to the department with each shoreline permit. The permit data sheet form shall be as provided in Appendix A of this regulation.

[Statutory Authority: RCW 90.58.140(3) and [90.58].200. 96-20-075 (Order 95-17), § 173-27-190, filed 9/30/96, effective 10/31/96.]

WAC 173-27-200 Department review of conditional use and variance permits. (1) After local government approval of a conditional use or variance permit, local government shall submit the permit to the department for the department's approval, approval with conditions, or denial. The department shall render and transmit to local government and the applicant its final decision approving, approving with conditions, or disapproving the permit within thirty days of the date of submittal by local government pursuant to WAC 173-27-110.

(2) The department shall review the complete file submitted by local government on conditional use and variance permits and any other information submitted or available that is relevant to the application. The department shall base its determination to approve, approve with conditions or deny a conditional use permit or variance on consistency with the policy and provisions of the act and, except as provided in WAC 173-27-210, the criteria in WAC 173-27-160 and 173-27-170.

(3) Local government shall provide timely notification of the department's final decision to those interested persons having requested notification from local government pursuant to WAC 173-27-130.

[Statutory Authority: RCW 90.58.140(3) and [90.58].200. 96-20-075 (Order 95-17), § 173-27-200, filed 9/30/96, effective 10/31/96.]

WAC 173-27-210 Minimum standards for conditional use and variance permits. Pursuant to RCW 90.58.100(5) and 90.58.140(3), the criteria contained in WAC 173-27-160 and 173-27-170 for shoreline conditional use and variance permits shall constitute the minimum crite-

ria for review of these permits by local government and the department. Local government and the department may, in addition, apply the more restrictive criteria where they exist in approved and adopted master programs.

[Statutory Authority: RCW 90.58.140(3) and [90.58].200. 96-20-075 (Order 95-17), § 173-27-210, filed 9/30/96, effective 10/31/96.]

WAC 173-27-220 Requests for review. All requests for review of any final permit decisions under chapter 90.58 RCW and chapter 173-27 WAC are governed by the procedures established in RCW 90.58.180 and chapter 461-08 WAC, the rules of practice and procedure of the shorelines hearings board.

[Statutory Authority: RCW 90.58.140(3) and [90.58].200. 96-20-075 (Order 95-17), § 173-27-220, filed 9/30/96, effective 10/31/96.]

PART II
SHORELINE MANAGEMENT ACT ENFORCEMENT

WAC 173-27-240 Authority and purpose. This part is adopted under RCW 90.58.200 and 90.58.210 to implement the enforcement responsibilities of the department and local government under the Shoreline Management Act. The act calls for a cooperative program between local government and the state. It provides for a variety of means of enforcement, including civil and criminal penalties, orders to cease and desist, orders to take corrective action, and permit rescission. The following should be used in addition to other mechanisms already in place at the local level and does not preclude other means of enforcement.

[Statutory Authority: RCW 90.58.140(3) and [90.58].200. 96-20-075 (Order 95-17), § 173-27-240, filed 9/30/96, effective 10/31/96.]

WAC 173-27-250 Definitions. The definitions contained in WAC 173-27-030 shall apply in this part also except that the following shall apply when used in this part of the regulations:

(1) "Permit" means any form of permission required under the act prior to undertaking activity on shorelines of the state, including substantial development permits, variances, conditional use permits, permits for oil or natural gas exploration activities, permission which may be required for selective commercial timber harvesting, and shoreline exemptions; and

(2) "Exemption" means authorization from local government which establishes that an activity is exempt from substantial development permit requirements under WAC 173-27-040, but subject to regulations of the act and the local master program.

[Statutory Authority: RCW 90.58.140(3) and [90.58].200. 96-20-075 (Order 95-17), § 173-27-250, filed 9/30/96, effective 10/31/96.]

WAC 173-27-260 Policy. These regulations should be used by local government in carrying out enforcement responsibilities under the act, unless local government adopts separate rules to implement the act's enforcement provision.

Enforcement action by the department or local government may be taken whenever a person has violated any provision of the act or any master program or other regulation promulgated under the act. The choice of enforcement action and the severity of any penalty should be based on the nature of the violation, the damage or risk to the public or to public resources, and/or the existence or degree of bad faith of the persons subject to the enforcement action.

[Statutory Authority: RCW 90.58.140(3) and [90.58].200. 96-20-075 (Order 95-17), § 173-27-260, filed 9/30/96, effective 10/31/96.]

WAC 173-27-270 Order to cease and desist. Local government and/or the department shall have the authority to serve upon a person a cease and desist order if an activity being undertaken on shorelines of the state is in violation of chapter 90.58 RCW or the local master program.

(1) Content of order. The order shall set forth and contain:

(a) A description of the specific nature, extent, and time of violation and the damage or potential damage; and

(b) A notice that the violation or the potential violation cease and desist or, in appropriate cases, the specific corrective action to be taken within a given time. A civil penalty under WAC 173-27-280 may be issued with the order.

(2) Effective date. The cease and desist order issued under this section shall become effective immediately upon receipt by the person to whom the order is directed.

(3) Compliance. Failure to comply with the terms of a cease and desist order can result in enforcement actions including, but not limited to, the issuance of a civil penalty.

[Statutory Authority: RCW 90.58.140(3) and [90.58].200. 96-20-075 (Order 95-17), § 173-27-270, filed 9/30/96, effective 10/31/96.]

WAC 173-27-280 Civil penalty. (1) A person who fails to conform to the terms of a substantial development permit, conditional use permit or variance issued under RCW 90.58.140, who undertakes a development or use on shorelines of the state without first obtaining a permit, or who fails to comply with a cease and desist order issued under these regulations may be subject to a civil penalty by local government. The department may impose a penalty jointly with local government, or alone only upon an additional finding that a person:

(a) Has previously been subject to an enforcement action for the same or similar type of violation of the same statute or rule; or

(b) Has been given previous notice of the same or similar type of violation of the same statute or rule; or

(c) The violation has a probability of placing a person in danger of death or bodily harm; or

(d) Has a probability of causing more than minor environmental harm; or

(e) Has a probability of causing physical damage to the property of another in an amount exceeding one thousand dollars.

(2) In the alternative, a penalty may be issued to a person by the department alone, or jointly with local government for violations which do not meet the criteria of subsection (1)(a) through (e) of this section, after the following information has been provided in writing to a person through a technical assistance visit or a notice of correction:

(a) A description of the condition that is not in compliance and a specific citation to the applicable law or rule;

(b) A statement of what is required to achieve compliance;

(c) The date by which the agency requires compliance to be achieved;

(d) Notice of the means to contact any technical assistance services provided by the agency or others; and

(e) Notice of when, where, and to whom a request to extend the time to achieve compliance for good cause may be filed with the agency.

Furthermore, no penalty shall be issued by the department until the individual or business has been given a reasonable time to correct the violation and has not done so.

(3) Amount of penalty. The penalty shall not exceed one thousand dollars for each violation. Each day of violation shall constitute a separate violation.

(4) Aiding or abetting. Any person who, through an act of commission or omission procures, aids or abets in the violation shall be considered to have committed a violation for the purposes of the civil penalty.

(5) Notice of penalty. A civil penalty shall be imposed by a notice in writing, either by certified mail with return receipt requested or by personal service, to the person incurring the same from the department and/or the local government, or from both jointly. The notice shall describe the violation, approximate the date(s) of violation, and shall order the acts constituting the violation to cease and desist, or, in appropriate cases, require necessary corrective action within a specific time.

(6) Application for remission or mitigation. Any person incurring a penalty may apply in writing within thirty days of receipt of the penalty to the department or local government for remission or mitigation of such penalty. Upon receipt of the application, the department or local government may remit or mitigate the penalty only upon a demonstration of extraordinary circumstances, such as the presence of information or factors not considered in setting the original penalty.

When a penalty is imposed jointly by the department and local government, it may be remitted or mitigated only upon such terms as both the department and the local government agree.

[Statutory Authority: RCW 90.58.140(3) and [90.58].200. 96-20-075 (Order 95-17), § 173-27-280, filed 9/30/96, effective 10/31/96.]

WAC 173-27-290 Appeal of civil penalty. (1) Right of appeal. Persons incurring a penalty imposed by the department or imposed jointly by the department and local government may appeal the same to the shorelines hearings board. Appeals to the shorelines hearings board are adjudicatory proceedings subject to the provisions of chapter 34.05 RCW. Persons incurring a penalty imposed by local government may appeal the same to the local government legislative authority.

(2) Timing of appeal. Appeals shall be filed within thirty days of receipt of notice of penalty unless an application for remission or mitigation is made to the department or local government. If such application is made, appeals shall be filed within thirty days of receipt of local government's and/or the department's decision regarding the remission or mitigation.

(3) Penalties due.

(a) Penalties imposed under this section shall become due and payable thirty days after receipt of notice imposing the same unless application for remission or mitigation is made or an appeal is filed. Whenever an application for remission or mitigation is made, penalties shall become due and payable thirty days after receipt of local government's and/or the department's decision regarding the remission or mitigation. Whenever an appeal of a penalty is filed, the penalty shall become due and payable upon completion of all review proceedings and upon the issuance of a final decision confirming the penalty in whole or in part.

(b) If the amount of a penalty owed the department is not paid within thirty days after it becomes due and payable, the attorney general, upon request of the department, shall bring an action in the name of the state of Washington to recover such penalty. If the amount of a penalty owed local government is not paid within thirty days after it becomes due and payable, local government may take actions necessary to recover such penalty.

(4) Penalty recovered. Penalties recovered by the department shall be paid to the state treasurer. Penalties recovered by local government shall be paid to the local government treasury. Penalties recovered jointly by the department and local government shall be divided equally between the department and the local government unless otherwise stipulated in the order.

[Statutory Authority: RCW 90.58.140(3) and [90.58].200. 96-20-075 (Order 95-17), § 173-27-290, filed 9/30/96, effective 10/31/96.]

WAC 173-27-300 Criminal penalty. The procedures for criminal penalties shall be governed by RCW 90.58.220.

[Statutory Authority: RCW 90.58.140(3) and [90.58].200. 96-20-075 (Order 95-17), § 173-27-300, filed 9/30/96, effective 10/31/96.]

WAC 173-27-310 Oil or natural gas exploration—Penalty. Persons violating the provisions of RCW 90.58.550 or chapter 173-15 WAC shall be subject to a civil penalty issued by the department in an amount of up to five thousand dollars a day. The procedures for oil or natural gas exploration penalties shall be governed by RCW 90.58.560.

[Statutory Authority: RCW 90.58.140(3) and [90.58].200. 96-20-075 (Order 95-17), § 173-27-310, filed 9/30/96, effective 10/31/96.]

WAC 173-27-990 Appendix A.

Appendix A

Shoreline Management Act
Permit Data Sheet and Transmittal Letter

From: (local government) To: (appropriate Ecology office)

Date of Transmittal: Date of Receipt: (provided by Ecology)

Type of Permit: (Indicate all that apply)
Substantial Development ___; Conditional Use ___; Variance ___; Revision ___; Other _____.
Local Government Decision: Approval ___; Conditional Approval ___; Denial ___:

Applicant Information:
Name:
Address:
Phone(s):

Applicant's Representative: (if primary contact)
Name:
Address:
Phone(s):

Is the applicant the property owner? ___yes ___no
Location of the Property: (Section Township and Range to the nearest 1/4, 1/4 Section or latitude and longitude, and a street address where available)

Water Body Name:
Shoreline of Statewide Significance: Yes ___ No ___.
Environment Designation:
Description of the Project: (Summary of the intended use or project purpose)

Notice of Application Date: Final Decision Date:
By: (Local Government Primary Contact on this Application)
Phone No:

[Statutory Authority: RCW 90.58.140(3) and [90.58].200. 96-20-075 (Order 95-17), § 173-27-990, filed 9/30/96, effective 10/31/96.]

Chapter 173-40 WAC
POLLUTION DISCLOSURE

WAC

173-40-010 Authority.
173-40-020 Purpose.
173-40-030 Definitions.
173-40-040 Critical materials registry.
173-40-050 Annual reports.

WAC 173-40-010 Authority. This regulation is adopted pursuant to chapter 90.52 RCW, the Pollution Disclosure Act of 1971, and chapter 43.21A RCW.

[Order 72-26, § 173-40-010, filed 11/27/72.]

WAC 173-40-020 Purpose. Chapter 90.52 RCW requires the director of the department of ecology to adopt a critical materials registry and establish an annual reporting procedure for those operations which discharge wastes, other than sanitary sewage, into waters of the state and/or into the air of the state.

[Order 72-26, § 173-40-020, filed 11/27/72.]

WAC 173-40-030 Definitions. As used herein "director" shall mean the director of the department of ecology. "Department" shall mean the department of ecology. Waters of the state shall include both surface and ground waters.

[Order 72-26, § 173-40-030, filed 11/27/72.]

WAC 173-40-040 Critical materials registry. The director, having consulted with a committee of environmental specialists as required by law, hereby designates the following materials as critical materials to be set forth in a critical materials registry filed at the department:

Asbestos
Arsenic, elemental and compounds of
Barium, soluble salts of
Beryllium, elemental and compounds of
Boron, elemental and compounds of
Cadmium, elemental and compounds of

Chlorinated hydrocarbons, compounds
Chlorine, elemental and compounds of
Chromium, soluble salts and all chromates
Copper, elemental and compounds of
Cyanides, compounds including the organic nitriles
Fluorine, elemental and compounds of
Lead, elemental and compounds of
Mercury, elemental and compounds of
Nickel, soluble salts of
Organo phosphorus; insecticide, algaecide, and slimecide compounds
Phenols and polychorinated biphenyls, compounds
Selenium, elemental and compounds of
Silver, soluble salts of
Zinc, soluble salts of

[Order 72-26, § 173-40-040, filed 11/27/72.]

WAC 173-40-050 Annual reports. Upon notification by the director of the department of ecology, commercial operations including industrial operations which discharge wastes, other than sanitary sewage, into waters of the state and/or into the air of the state, shall file annually, during the month of January, reports, on forms provided by the department. The information required shall pertain to those materials set forth in WAC 173-40-040 above, which are in excess of the corresponding materials occurring in the intake source used by the operation. The information shall also include volumes of process and cooling water to be discharged into the water, air or into any sewer system. The information given is to be an estimate of the amount(s) of such materials to be discharged in the calendar year in which the report is being filed. The reports shall be postmarked no later than January 31 and be sent to:

Director
Department of Ecology
Olympia, Washington 98504
ATTN: POLLUTION DISCLOSURE

[Order 72-26, § 173-40-050, filed 11/27/72.]

Chapter 173-44 WAC

FEES—RADIOACTIVE WASTE MANAGEMENT FACILITIES

WAC

173-44-010	Purpose and scope.
173-44-020	Authority.
173-44-030	Definitions.
173-44-040	Perpetual care and maintenance fee.
173-44-050	PCM fee—Method of payment.
173-44-060	PCM fee—Disposition.
173-44-070	Severability.

WAC 173-44-010 Purpose and scope. The proper perpetual care and maintenance of radioactive waste management facilities is required to protect the public health, safety, and welfare. This chapter establishes the fees charged by the Washington state department of ecology for financing the necessary perpetual care and maintenance of radioactive waste management facilities. Promulgation of this regulation is further intended to satisfy the state's financial responsibilities to the United States government pursuant to the perpetual care agreement executed July 29, 1965.

[Statutory Authority: 1983 1st ex.s. c 19 and Title 43 RCW. 83-18-020 (Order DE 83-25), § 173-44-010, filed 8/30/83. Formerly WAC 173-16-010.]

WAC 173-44-020 Authority. This chapter is promulgated by the state department of ecology pursuant to authority granted in RCW 43.21F.045 and chapter 19, Laws of 1983 1st ex. sess.

[Statutory Authority: 1983 1st ex.s. c 19 and Title 43 RCW. 83-18-020 (Order DE 83-25), § 173-44-020, filed 8/30/83. Formerly WAC 173-16-020.]

WAC 173-44-030 Definitions. (1) "Facility" means any site, location, structure, or property used or to be used for the storage, disposal, or burial of radioactive materials or waste, which lies within the one hundred acre tract described in the perpetual care agreement between the state of Washington and the United States government executed July 29, 1965.

(2) "Department" means the Washington state department of ecology.

(3) "Perpetual care and maintenance" means the activities necessary to stabilize and secure a closed facility during the perpetual care period, including but not limited to: Trench stabilization; upkeep of erosion control measures, fences, and warning signs; and sampling of monitor wells.

(4) "Sublessee" means a party to a sublease with the state of Washington for a portion of the one thousand acres of land, as described in the state's lease with the United States government executed September 10, 1964, lying within the Hanford Reservation.

[Statutory Authority: 1983 1st ex.s. c 19 and Title 43 RCW. 83-18-020 (Order DE 83-25), § 173-44-030, filed 8/30/83. Formerly WAC 173-16-030.]

WAC 173-44-040 Perpetual care and maintenance fee. (1) Any sublessee of the state who stores, disposes, or buries radioactive materials or waste at a facility shall pay a perpetual care and maintenance fee.

(2) The perpetual care and maintenance fee shall be one dollar seventy-five cents per cubic foot of radioactive material or waste buried or permanently stored at a facility.

[Statutory Authority: 1983 1st ex.s. c 19 and Title 43 RCW. 83-18-020 (Order DE 83-25), § 173-44-040, filed 8/30/83. Formerly WAC 173-16-040.]

WAC 173-44-050 PCM fee—Method of payment. (1) The perpetual care and maintenance fee shall be due on a quarterly basis for the quarters ending January 15, April 15, July 15, and October 15. All perpetual care and maintenance fee payments shall be paid within forty-five days after the due date.

(2) Perpetual care and maintenance payments shall be by check, draft, or money order payable to the Washington state department of ecology.

[Statutory Authority: 1983 1st ex.s. c 19 and Title 43 RCW. 83-18-020 (Order DE 83-25), § 173-44-050, filed 8/30/83. Formerly WAC 173-16-050.]

WAC 173-44-060 PCM fee—Disposition. (1) Upon receipt of perpetual care and maintenance fee payments, the department shall transmit such payments to the state treasurer for deposit in the perpetual maintenance account authorized by chapter 19, Laws of 1983 1st ex. sess.

(2) Moneys in the perpetual maintenance account shall be invested by the state investment board in the same manner as other state moneys. Any interest accruing as a result of investment shall accrue to the perpetual maintenance account.

(3) The department shall maintain a segregated account of perpetual care and maintenance fee payments which are deposited in the perpetual maintenance account.

(4) The department, in consultation with the state radiation control agency, shall periodically evaluate the perpetual care and maintenance fee to determine whether it will provide adequate financing to assure perpetual care and maintenance of a closed facility. Any adjustments to the fees shall be made by rule adopted pursuant to chapter 34.04 RCW.

[Statutory Authority: 1983 1st ex.s. c 19 and Title 43 RCW. 83-18-020 (Order DE 83-25), § 173-44-060, filed 8/30/83. Formerly WAC 173-16-060.]

WAC 173-44-070 Severability. If any portion of this chapter or its application to any person or circumstance is held invalid, the remainder of this chapter, or the application of the provision to other persons or circumstances, shall not be affected.

[Statutory Authority: 1983 1st ex.s. c 19 and Title 43 RCW. 83-18-020 (Order DE 83-25), § 173-44-070, filed 8/30/83. Formerly WAC 173-16-070.]

Chapter 173-50 WAC
ACCREDITATION OF ENVIRONMENTAL LABORATORIES

WAC

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WAC 173-50-010 Purpose. The purpose of this chapter is to establish a state program for accreditation of environmental laboratories which conduct tests for or prepare data for submittal to the department of ecology. The accreditation program implemented under this chapter is designed to satisfy the intent of RCW 43.21A.230.

[Statutory Authority: RCW 43.21A.230. 89-10-001 and 90-07-017 (Order 89-1 and 89-1A), § 173-50-010, filed 4/20/89 and 3/13/90, effective 4/13/90.]

WAC 173-50-020 Scope. The environmental laboratory accreditation program applies to laboratories, within or outside the state, which conduct tests for or prepare analytical data for submittal to the department. Federal laboratories may participate in the accreditation program on a voluntary basis.

[Statutory Authority: RCW 43.21A.230. 89-10-001 and 90-07-017 (Order 89-1 and 89-1A), § 173-50-020, filed 4/20/89 and 3/13/90, effective 4/13/90.]

WAC 173-50-030 Objectives. The primary objective of the accreditation program is to assure accredited laboratories have a demonstrated capability to accurately analyze environmental samples. A secondary objective is to assist environmental laboratories in improving their quality assurance/quality control procedures. Accreditation does not guarantee validity of analytical data submitted by the laboratory subsequent to accreditation.

[Statutory Authority: RCW 43.21A.230. 89-10-001 and 90-07-017 (Order 89-1 and 89-1A), § 173-50-030, filed 4/20/89 and 3/13/90, effective 4/13/90.]

WAC 173-50-040 Definitions. Definitions set forth in this section shall apply throughout this chapter, unless context clearly indicates otherwise.

(1) "Accreditation" means the formal recognition by the department that an environmental laboratory is capable of producing accurate analytical data, signified by the issuance of a written certificate accompanied by a scope of accreditation indicating those parameters and methods for which the laboratory has been accredited. The term "accredit" as used in this chapter is intended to have the same meaning as the term "certify" as used in RCW 43.21A.230. Any laboratory accredited under this chapter shall be deemed to have been certified under RCW 43.21A.230. The department does not, by certifying or accrediting any laboratory pursuant to this chapter, vouch for or warrant the accuracy of any particular work done or report issued by the laboratory.

(2) "Analytical data" means the recorded qualitative and/or quantitative results of a chemical, physical, biological, microbiological, radiochemical, or other scientific determination.

(3) "Department" means the state of Washington department of ecology.

(4) "Environmental laboratory" means any facility under the ownership and technical management of a single entity in a single geographical locale, where scientific examinations are performed on samples taken from the environment, the data from which is submitted to the department under the provisions of a department regulation, permit, or contractual agreement.

(5) "Mandatory analytical method" means a recognized written procedure for acquiring analytical data which is required by law or a regulatory agency of the federal or state government.

(6) "Matrix" means the substance from which a material to be analyzed is extracted, such as ground or surface water,

wastewater, air, solid waste, nuclear waste, and hazardous waste.

(7) "Parameter" means a single determination or group of related determinations using a specific written method chosen by an applying laboratory.

(8) "Performance audit" means evaluation of the results of analyses of unknown samples whose true values are unknown to the laboratory conducting the analyses and which are provided by a source external to the environmental laboratory. Such samples may be referred to as performance evaluation samples.

(9) "Quality control" means those activities designed to assure analytical data produced by an environmental laboratory meet data quality objectives for accuracy. Those activities include routine application of statistically based procedures to evaluate and control the accuracy of analytical results.

(10) "Quality assurance (QA)" means those activities whose purpose is to assure that a quality control program is effective. A quality assurance program is a totally integrated program for assuring reliability of measurement data.

(11) "Quality assurance manual" means a written record of the policies, organization, objectives, and specific quality control and quality assurance activities established for use in an environmental laboratory to assure accuracy of analytical results. Volume and scope of quality assurance manuals vary with complexity of laboratory mission.

(12) "Recognized analytical method" means a documented analytical procedure for analysis of an environmental sample which was developed through collaborative studies by organizations or groups recognized by the department.

(13) "System audit" means an on-site inspection of laboratory capabilities by an agency external to the laboratory.

(14) "Registration" means participation of a laboratory in a program to prepare the laboratory for accreditation, signified by issuance of a written certificate accompanied by a scope of registration indicating those parameters for which the laboratory has achieved registration status.

(15) "Registered" means the status of continued participation in the preparatory program. Only laboratories owned and operated by municipalities, industries, and other activities which are dischargers as defined in chapter 173-220 or 173-216 WAC shall be eligible for participation in the preparatory program. Such laboratories are also eligible for accreditation. The department does not, by registering any laboratory pursuant to these rules, vouch for or warrant the accuracy of any particular work done or report issued by the laboratory.

Note: Above referenced chapters are available through the Department of Ecology, P.O. Box 47600, Olympia, WA 98504-7600.

[Statutory Authority: RCW 43.21A.230. 93-20-011 (Order 92-53), § 173-50-040, filed 9/22/93, effective 10/23/93; 90-21-090 (Order 90-21), § 173-50-040, filed 10/19/90, effective 11/19/90; 89-10-001 and 90-07-017 (Order 89-1 and 89-1A), § 173-50-040, filed 4/20/89 and 3/13/90, effective 4/13/90.]

WAC 173-50-050 Responsibilities. (1) The department shall require persons and organizations submitting analytical data to the department under the purview of department programs to use environmental laboratories which are accredited or registered under the provisions of this chapter.

(2) The department shall not require use of accredited or registered laboratories for determination of analytical parameters for which no suitable accreditation process can be reasonably devised as determined by the quality assurance section.

(3) The department shall develop a procedural manual describing specifics of the accreditation process. As a minimum, the procedural manual shall describe in detail the procedures to be followed for: Submitting an application; preparing a quality assurance manual; system (on-site) audits; performance audits; accreditation of out-of-state laboratories; determination and payment of fees; issuance, denial, suspension, and revocation of accreditation or registration; and methods for notifying laboratories and authorized department officials of accreditation actions. The procedural manual shall be made available to all interested persons.

(4) Managers of environmental laboratories desiring accreditation or registration shall submit an application along with appropriate fees to the department fiscal officer, submit results of performance evaluations, a quality assurance manual and other required documentation to the quality assurance section, and assist/accommodate department personnel during system audits as required.

[Statutory Authority: RCW 43.21A.230. 93-20-011 (Order 92-53), § 173-50-050, filed 9/22/93, effective 10/23/93; 90-21-090 (Order 90-21), § 173-50-050, filed 10/19/90, effective 11/19/90; 89-10-001 and 90-07-017 (Order 89-1 and 89-1A), § 173-50-050, filed 4/20/89 and 3/13/90, effective 4/13/90.]

WAC 173-50-060 Requirements for accreditation and registration. (1) Managers of environmental laboratories desiring accreditation or registration shall submit to the department fiscal officer an application and pay required fees as predetermined by coordination with the quality assurance section. Concurrently, the laboratory manager shall submit a copy of their laboratory quality assurance manual to the quality assurance section and arrange with the quality assurance section for completion of a performance audit and system audit.

(2) Through the application, laboratory managers shall request accreditation or registration in applicable parameters and provide evidence that sufficient personnel, equipment, and facilities are available to successfully perform analytical methods as specified in the application. The quality assurance manual submitted concurrently with the application shall be in detail and scope commensurate with the size and mission of the laboratory.

(3) Eligible laboratories shall achieve registration status by submitting a completed application, paying required fees, and submitting a quality assurance manual to the quality assurance section.

[Statutory Authority: RCW 43.21A.230. 90-21-090 (Order 90-21), § 173-50-060, filed 10/19/90, effective 11/19/90; 89-10-001 and 90-07-017 (Order 89-1 and 89-1A), § 173-50-060, filed 4/20/89 and 3/13/90, effective 4/13/90.]

WAC 173-50-070 Performance audit. (1) The quality assurance section shall advise applying laboratories of specific requirements for performance audits which shall be

completed for applicable parameters no more frequently than twice annually (see exception in subsection (4) of this section). Current performance audits conducted under the provisions of other recognized programs may be used to satisfy the accreditation program performance audit requirement. Sufficiency of such audits shall be determined by the quality assurance section.

(2) Submission of raw data along with the report of analysis of the performance evaluation sample may be required at the discretion of the quality assurance section.

(3) Performance audits for certain accreditation parameters may be waived at the discretion of the quality assurance section if performance evaluation samples are not available or for other valid reasons.

(4) Accredited laboratories and laboratories seeking accreditation which fail to accurately analyze a performance evaluation sample may be allowed a second performance audit. If necessitated by a second failure, a third performance audit may be allowed (as an exception to subsection (1) of this section) only after the laboratory has investigated cause for failure in the preceding audits and completed corrective actions.

(5) Registered laboratories shall submit results of performance evaluation sample analyses to the quality assurance section. Registration status shall not be denied or revoked solely for failure to accurately analyze performance evaluation samples. Registered laboratories shall investigate causes for errors in performance evaluation sample analysis results which have been identified as unacceptable or otherwise in error. The results of this investigation shall be reported to the quality assurance section within forty-five days of receipt of the performance evaluation report. The report to the quality assurance section shall identify probable causes for error and corrective actions taken to preclude recurrence.

(6) Applying laboratories shall be responsible for obtaining performance evaluation samples. No fee shall be charged to the department for analysis of performance evaluation samples.

[Statutory Authority: RCW 43.21A.230. 93-20-011 (Order 92-53), § 173-50-070, filed 9/22/93, effective 10/23/93; 90-21-090 (Order 90-21), § 173-50-070, filed 10/19/90, effective 11/19/90; 89-10-001 and 90-07-017 (Order 89-1 and 89-1A), § 173-50-070, filed 4/20/89 and 3/13/90, effective 4/13/90.]

WAC 173-50-080 System audit. The laboratory shall undergo a system audit by the department to assess critical elements and areas of recommended practices.

(1) Critical elements for accreditation. Those elements of an environmental laboratory's operations which are critical to the consistent generation of reliable, accurate data are critical elements for accreditation. Those critical elements shall be the subject of intense scrutiny throughout the accreditation process and deficiencies in critical elements may be the basis for denial or revocation of accreditation status. Functional areas within which there are critical elements are:

(a) Analytical methods. The system audit shall seek to determine if documentation of mandatory or recognized analytical methods are present at the laboratory, readily available to analysts, and being routinely followed. If a locally-developed method is being followed, the audit may include an evaluation of the adequacy of that method.

(b) Equipment and supplies. The system audit shall seek to determine if sufficient equipment and supplies as required by analytical methods are available, being adequately maintained, and are in a condition to allow successful performance of applicable analytical procedures.

(c) Quality assurance. The laboratory quality assurance manual shall be reviewed for adequacy prior to the system audit. The system audit shall include a review of quality assurance plans and quality assurance/quality control records for programs/projects within which the laboratory is generating analytical data for submission to the department.

(d) Sample management. The system audit shall include a review of applicable procedures for receipt, preservation, transportation, and storage of samples. The laboratory shall be held responsible only for those elements of sample management over which it has direct control.

(e) Data management. The system audit shall include a review of applicable procedures for checking documentation of raw data, calculations, transcription and computer data entry, reports of analytical results, and other activities necessary to assure accurate management of laboratory data.

(2) Recommended practices. Those elements of laboratory operations which might affect efficiency, safety, and other administrative functions, but do not normally affect quality of analytical data, shall be brought to the attention of laboratory management under the heading of "recommended practices" and individually, shall not be the basis for denial or revocation of accreditation status. Functional areas within which recommended practices may be noted are:

(a) Personnel. The system audit shall seek to determine if managerial, supervisory, and analytical personnel have adequate training and experience to allow satisfactory completion of analytical procedures and compilation of reliable, accurate data. Minimum recommended education and experience criteria for laboratory personnel shall be specified in the program procedural manual.

(b) Facilities. The system audit shall seek to determine if laboratory facilities allow efficient generation of reliable, accurate data in a safe environment.

(c) Safety. When the system audit notes laboratory safety problems, those judged serious shall be referred to appropriate state or federal agencies.

(3) Registered laboratories shall be advised in a written system audit report prepared by the department of deficiencies in meeting critical element and recommended practice standards. The laboratory must respond in writing to the department within forty-five days of receipt of the system audit report concerning corrective actions taken as a result of the system audit report.

[Statutory Authority: RCW 43.21A.230. 93-20-011 (Order 92-53), § 173-50-080, filed 9/22/93, effective 10/23/93; 90-21-090 (Order 90-21), § 173-50-080, filed 10/19/90, effective 11/19/90; 89-10-001 and 90-07-017 (Order 89-1 and 89-1A), § 173-50-080, filed 4/20/89 and 3/13/90, effective 4/13/90.]

WAC 173-50-090 Evaluation and issuance of certificate. (1) Accreditation. Following receipt of an application and completion of a performance audit and system audit, the

quality assurance section shall submit a report to the affected laboratory concerning the results of the overall accreditation process. The report shall list findings, assess the importance of each finding, and make recommendations concerning actions necessary to ensure resolution of problems. After completing the accreditation review, the quality assurance section shall decide, based on information in the application and results of the system audit, performance audit, and review of the quality assurance manual, whether accreditation should be granted. If this decision is affirmative, a certificate shall be issued authorizing the affected laboratory to submit analytical data to the department as specified on an accompanying scope of accreditation. The certificate shall remain the property of the department and shall be surrendered to the department upon revocation of accreditation status. If accreditation is not justified, the department shall issue a report specifying areas of deficiency and steps necessary to upgrade the laboratory to accredited status. In such cases, the laboratory shall provide documentation that the specified deficiencies have been corrected. Based on such documentation the department shall decide whether to grant, renew, deny, or revoke accreditation.

(2) Registration. Registered laboratories shall be issued a certificate and accompanying scope of registration. The certificate shall remain the property of the department of ecology and shall be surrendered to the department upon revocation of the registration status.

[Statutory Authority: RCW 43.21A.230. 93-20-011 (Order 92-53), § 173-50-090, filed 9/22/93, effective 10/23/93; 90-21-090 (Order 90-21), § 173-50-090, filed 10/19/90, effective 11/19/90; 89-10-001 and 90-07-017 (Order 89-1 and 89-1A), § 173-50-090, filed 4/20/89 and 3/13/90, effective 4/13/90.]

WAC 173-50-100 Interim accreditation. If for valid reasons based on a deficiency in the department and not the laboratory, the quality assurance section cannot conduct a complete assessment of laboratory capabilities in a timely manner, an interim accreditation may be granted. The accreditation shall be based on submission of an application and fees by the laboratory, successful completion of a performance audit where appropriate, and department approval of the laboratory's quality assurance manual.

[Statutory Authority: RCW 43.21A.230. 93-20-011 (Order 92-53), § 173-50-100, filed 9/22/93, effective 10/23/93; 90-21-090 (Order 90-21), § 173-50-100, filed 10/19/90, effective 11/19/90; 89-10-001 and 90-07-017 (Order 89-1 and 89-1A), § 173-50-100, filed 4/20/89 and 3/13/90, effective 4/13/90.]

WAC 173-50-110 Provisional accreditation. Laboratories which have deficiencies requiring corrective action but can produce valid analytical data as determined by the quality assurance section may be given a provisional accreditation. When the laboratory has corrected such deficiencies, it may provide evidence of correction to the quality assurance section, or request reaudit, as appropriate. Upon determining deficiencies have been corrected, the quality assurance section shall take action to award full accreditation as in WAC 173-50-090. Provisional accreditation shall not be renewed for a subsequent accreditation period unless laboratory management can demonstrate that all reasonable measures to correct deficiencies noted during the initial capability assessment have been exhausted.

[Statutory Authority: RCW 43.21A.230. 90-21-090 (Order 90-21), § 173-50-110, filed 10/19/90, effective 11/19/90; 89-10-001 and 90-07-017 (Order 89-1 and 89-1A), § 173-50-110, filed 4/20/89 and 3/13/90, effective 4/13/90.]

WAC 173-50-120 Accreditation and registration categories. Environmental laboratories shall be accredited or registered within the broad categories Chemistry I (general), Chemistry II (trace metals), Organics I (gas chromatography (GC), high pressure liquid chromatography (HPLC) methods), Organics II (gas chromatography/mass spectrometry (GC/MS) methods), Radioactivity, Microbiology, and Bioassay/Toxicity. Within those broad categories, laboratories shall specifically be accredited or registered to perform within the well-defined parameters identified in WAC 173-50-190 or as requested by the applying laboratory, using specific, recognized analytical methods chosen by the applying laboratory. Additional parameters may be designated in the program procedural manual without amendment of this chapter if required to allow more efficient execution of the accreditation program.

[Statutory Authority: RCW 43.21A.230. 93-20-011 (Order 92-53), § 173-50-120, filed 9/22/93, effective 10/23/93; 90-21-090 (Order 90-21), § 173-50-120, filed 10/19/90, effective 11/19/90; 89-10-001 and 90-07-017 (Order 89-1 and 89-1A), § 173-50-120, filed 4/20/89 and 3/13/90, effective 4/13/90.]

WAC 173-50-130 Requirements for maintaining accreditation and registration status. (1) Accreditation shall be granted for a one-year period and shall expire one year after the effective date of accreditation. Exceptions to the one year accreditation may be made for documented cause. In such cases, accreditation may be granted for a period up to two years. Renewal shall require submission of an application and appropriate fees, an update of the laboratory's quality assurance manual, and successful completion of performance audit requirements. System audits shall be required for renewal of accreditation at periods not to exceed three years from the previous system audit. For documented cause, system audits can be extended up to four years from the previous audit.

(2) Registration shall be granted for a one-year period and shall expire one year after the effective date of registration. Renewal shall require submission of an application and appropriate fees, an update of the laboratory's quality assurance manual, and completion of a new performance audit. System audits shall be required for renewal of registration at periods not to exceed three years from the previous system audit.

[Statutory Authority: RCW 43.21A.230. 93-20-011 (Order 92-53), § 173-50-130, filed 9/22/93, effective 10/23/93; 90-21-090 (Order 90-21), § 173-50-130, filed 10/19/90, effective 11/19/90; 89-10-001 and 90-07-017 (Order 89-1 and 89-1A), § 173-50-130, filed 4/20/89 and 3/13/90, effective 4/13/90.]

WAC 173-50-140 Denying accreditation and registration status. (1) A laboratory may be denied accreditation for failing to comply with standards for critical elements of the system audit, for misrepresenting its capabilities or failing

to disclose pertinent information in the application, for falsifying analytical data, or for failing to render appropriate fees. Additionally, a laboratory may be denied accreditation for a specific parameter for unsatisfactory analysis of that parameter in the performance audit. Laboratories denied accreditation may appeal under the provisions of WAC 173-50-200 or, following correction of deficiencies, may reapply for accreditation to include payment of appropriate fees as determined in WAC 173-50-190.

(2) A laboratory may be denied registration status only for failure to render appropriate fees, for failing to disclose pertinent information in the application, or for misrepresenting its capabilities.

[Statutory Authority: RCW 43.21A.230. 90-21-090 (Order 90-21), § 173-50-140, filed 10/19/90, effective 11/19/90; 89-10-001 and 90-07-017 (Order 89-1 and 89-1A), § 173-50-140, filed 4/20/89 and 3/13/90, effective 4/13/90.]

WAC 173-50-150 Revoking accreditation and registration status. (1) Accreditation status may be suspended or revoked if the laboratory violates a state rule relative to the analytical procedures for which it is accredited, misrepresents itself to the department, fails to submit an application and associated fees for renewal, falsifies reports of analysis, or engages in unethical or fraudulent practices concerning the generation of analytical data. Additionally, an accredited laboratory may be reaudited for cause and, if found to be deficient in its ability to provide accurate analytical data, may have its accreditation suspended or revoked.

(2) Registration status may be revoked for failure to submit a renewal application, failure to pay appropriate fees, failure to submit required performance evaluation sample analysis results, failure to report on corrective actions taken if performance evaluation results are unacceptable or otherwise in error, failure to submit to a system audit, failure to report on corrective actions taken on deficiencies identified in a system audit, repeated failure to correct the deficiencies identified in the performance or system audits, or for misrepresenting the capabilities of the registered laboratory.

[Statutory Authority: RCW 43.21A.230. 90-21-090 (Order 90-21), § 173-50-150, filed 10/19/90, effective 11/19/90; 89-10-001 and 90-07-017 (Order 89-1 and 89-1A), § 173-50-150, filed 4/20/89 and 3/13/90, effective 4/13/90.]

WAC 173-50-160 Reciprocity. The department may recognize accreditation (or certification, registration, licensure, approval) of an out-of-state laboratory by another state with which the department has established a reciprocity agreement. In such cases, the out-of-state laboratory shall submit an application and associated fee to offset administrative costs of processing its application (see WAC 173-50-190(5)), and a copy of their accreditation documentation including scope of accreditation. After review of the application and accreditation to assure compliance with minimum accreditation requirements as stated in this chapter, the laboratory may be recognized as authorized to submit analytical data to the department.

[Statutory Authority: RCW 43.21A.230. 89-10-001 and 90-07-017 (Order 89-1 and 89-1A), § 173-50-160, filed 4/20/89 and 3/13/90, effective 4/13/90.]

WAC 173-50-170 Third-party accreditation. The department may recognize accreditation (or certification, registration, licensure, approval) of a laboratory, including in-state laboratories, by a third party when the accreditation is determined to be equivalent to that described in this chapter. Laboratories applying for recognition of third-party accreditation shall submit an application and associated fee to offset administrative costs (see WAC 173-50-190(5)), and provide documented information demonstrating requirements for accreditation have been fulfilled as a result of accreditation carried out by a third party. After review of the application and accreditation to ensure compliance with minimum accreditation requirements as stated in this chapter, the laboratory may be recognized as authorized to submit analytical data to the department.

[Statutory Authority: RCW 43.21A.230. 89-10-001 and 90-07-017 (Order 89-1 and 89-1A), § 173-50-170, filed 4/20/89 and 3/13/90, effective 4/13/90.]

WAC 173-50-180 Exemptions. (1) The application form shall provide for wastewater dischargers whose laboratories meet the exemption qualifications of RCW 43.21A.230 to request exemption from the accreditation program. Those laboratories shall be required to submit evidence that they are participating in a federal Environmental Protection Agency Administered Quality Assurance Program including as a minimum the following elements: Current QA program/project plans; performance evaluation audits; system audits; corrective action for audit deficiencies; quality control guidelines and records; and training in quality assurance for laboratory management personnel. The department shall grant exemption from accreditation requirements of this chapter upon receipt of confirmation from Region X of the federal Environmental Protection Agency of such participation by a laboratory.

(2) Exemption shall be granted only for those analytical parameters included in the federal Environmental Protection Agency Quality Assurance Program. The exemption status shall be reviewed annually based upon submittal by the laboratory of a new application and updated evidence of continued participation in a sufficient quality assurance program.

Note: The federal Environmental Protection Agency does not presently administer a complete quality assurance program for wastewater dischargers in the state of Washington, such as would provide an exemption under subsection (1) of this section. Thus, this exemption is not presently available. The Environmental Protection Agency considers annual analysis of performance evaluation samples to constitute only one element of participation in a quality assurance program. The complete Environmental Protection Agency Quality Assurance Program is described in their Order 5360.1, "Policy and Program Requirements to Implement the Mandatory Quality Assurance Program," which is the basis for exemption requirements stated in subsection (1) of this section.

[Statutory Authority: RCW 43.21A.230. 89-10-001 and 90-07-017 (Order 89-1 and 89-1A), § 173-50-180, filed 4/20/89 and 3/13/90, effective 4/13/90.]

WAC 173-50-190 Fee structure. (1) Fees in this chapter are established to cover costs of administering the accreditation program. The fee per parameter and maximum fee per

category are identified in Table 1. Laboratory directors may request addition of parameters within given categories.

TABLE 1 - FEE SCHEDULE

CATEGORY	PARAMETER		MAX FEE PER FEE/ PARAMETER CATEGORY
Chemistry I (General)	Calcium	$55	$1000
	Chloride		
	Fluoride		
	Magnesium		
	pH		
	Potassium		
	Sodium		
	Specific Conductance		
	Sulfate		
	Total Alkalinity		
	Total Dissolved Solids (TDS)		
	Total Hardness		
	Ammonia (NH3-N)		
	Kjeldahl Nitrogen		
	Nitrate (NO3-N)		
	Nitrate-Nitrite (NO3-NO2)		
	Nitrite (NO2-N)		
	Orthophosphate		
	Phosphorous (total)		
	Biochemical Oxygen Demand (BOD)/Carbonaceous BOD (CBOD)		
	Chemical Oxygen Demand (COD)		
	Total Organic Carbon (TOC)		
	Acidity		
	Anionic Surfactants (LAS)		
	Bromide		
	Color		
	Cyanide (total)		
	Dissolved Oxygen (DO)		
	Nonfilterable Residue/ Total Suspended Solids (TSS)		
	Total Solids		
	Volatile Solids		
	Oil/grease		
	Phenolics (total)		
	Salinity		
	Silica		
	Sulfide		
	Sulfite		
	Total Organic Halides		
	Total Petroleum Hydrocarbons		
	Total Residual Chlorine		
	Turbidity		
Chemistry II (Trace Metals)	Aluminum	$55	$850
	Antimony		
	Arsenic		
	Barium		
	Beryllium		
	Cadmium		
	Chromium		
	Chromium (hexavalent)		
	Cobalt		
	Copper		
	Iron		
	Lead		
	Manganese		
	Mercury		
	Molybdenum		
	Nickel		
	Selenium		
	Silver		
	Strontium		
	Thallium		
	Tin		
	Titanium		
	Vanadium		
	Zinc		
Organics I (GC, HPLC methods)	Acrolein/Acrylonitrile	$100	$850
	Phenols		
	Purgeable (volatile) Halocarbons		
	Purgeable (volatile) Aromatics		
	Benzidines		
	Phthalate Esters		
	Nitrosamines		
	Organochlorine Pesticides		
	Polychlorinated Biphenyls (PCBs)		
	Nitroaromatics/Isophorone		
	Polycyclic Aromatic Hydrocarbons		
	Haloethers		
	Chlorinated Hydrocarbons		
	Organophosphorus Pesticides		
	Chlorinated Herbicides		
	Gasoline		
	Diesel Fuel		
Organics II (GC/MS Methods)	Purgeable (volatile) Organics	$300	$900
	Extractable Base/Neutral and Acid (Semivolatile) Organics		
	Dioxin (2,3,7,8-Tetra-chlorodibenzo-p-dioxin)		
Radioactivity	Gross Alpha	$125	$1200
	Gross Beta		
	Cesium 134		
	Cesium 137		
	Cobalt 60		
	Radium 226		
	Radium 228		
	Tritium		
	Total Uranium		
	Iodine 131		
	Strontium 89		
	Strontium 90		
Microbiology	Coliform (fecal)	$205	$600
	Coliform (total)		
	Enterococci/Fecal Streptococci		
	E. coli		
Bioassay/Toxicity	Fish	$200	$1250
	Rat		
	Amphipod		
	Bivalve Larvae		
	Chromosomal abnormality		
	Microtox		
	Daphnid		
	Echinoderm		
	Mysid		
	Algae		
Sediment	Antimony	$100	$500
	Arsenic		
	Cadmium		
	Copper		
	Lead		

TABLE 1 - FEE SCHEDULE

CATEGORY	PARAMETER	MAX FEE PER FEE/ PARAMETER CATEGORY
	Mercury	
	Nickel	
	Silver	
	Zinc	
	Polycyclic Aromatic Hydrocarbons	
	Extractable Base/Neutral and Acid (semivolatile) Organics	

(2) Out-of-state laboratories shall coordinate directly with the quality assurance section to determine the anticipated cost of completing the accreditation process. Reimbursement of the cost of travel and per diem shall be added to the normal fee indicated in WAC 173-50-190(1).

(3) On-site inspections shall not be conducted nor shall interim or provisional or other accreditations be granted until appropriate fees have been received by the department.

(4) The fee to defray costs to the department recognition of third-party accreditation (WAC 173-50-170) shall be three hundred dollars. The fee for recognition of a laboratory under a reciprocity agreement (WAC 173-50-160) shall be three hundred dollars, or as specified in the reciprocity agreement, but not less than three hundred dollars.

(5) Apart from the fee process, applicant laboratories shall be required to acquire and analyze performance evaluation (PE) samples for parameters specified by the quality assurance section. The source of PE samples, if other than the federal Environmental Protection Agency, shall be approved by the quality assurance section. To the extent feasible as determined by the quality assurance section, performance evaluation samples already being analyzed by the applicant laboratories, shall be used to fulfill performance audit requirements of this chapter.

(6) In addition to fees as determined by the number of parameters and methods in WAC 173-50-190(1), laboratories seeking registration status are required to pay an annual fee of six hundred dollars.

(7) If a laboratory withdraws from the accreditation process after the application has been processed, but before accreditation or registration is granted, the fee will be nonrefundable up to an amount of two hundred dollars as reimbursement for costs of processing the application.

(8) Dollar amounts listed in subsections (1), (4), (6), and (7) of this section may be adjusted every two years based on inflation as indicated by the implicit price deflator for state and local government services as published by the economic and revenue forecast council. Dollar amounts listed in subsections (1), (4), (6), and (7) of this section may be decreased at any time the department determines they are higher than needed to meet program requirements. The department shall notify affected parties of any fee adjustment at least thirty days prior to making any fee adjustment.

[Statutory Authority: RCW 43.21A.230. 93-20-011 (Order 92-53), § 173-50-190, filed 9/22/93, effective 10/23/93; 90-21-090 (Order 90-21), § 173-50-190, filed 10/19/90, effective 11/19/90; 89-10-001 and 90-07-017 (Order 89-1 and 89-1A), § 173-50-190, filed 4/20/89 and 3/13/90, effective 4/13/90.]

WAC 173-50-200 Appeals. An environmental laboratory manager may appeal final accreditation and registration actions within thirty days of notification of final action in accordance with chapter 43.21B RCW.

[Statutory Authority: RCW 43.21A.230. 93-20-011 (Order 92-53), § 173-50-200, filed 9/22/93, effective 10/23/93; 90-21-090 (Order 90-21), § 173-50-200, filed 10/19/90, effective 11/19/90; 89-10-001 and 90-07-017 (Order 89-1 and 89-1A), § 173-50-200, filed 4/20/89 and 3/13/90, effective 4/13/90.]

WAC 173-50-210 Enforcement. The department may enter any premises in which analytical data pertaining to accreditation and registration under the provisions of this chapter are generated or stored, for the purpose of conducting system audits or otherwise enforcing this chapter. Refusal to permit entry for such purposes shall result in denial, revocation, or suspension of accreditation or registration status.

[Statutory Authority: RCW 43.21A.230. 90-21-090 (Order 90-21), § 173-50-210, filed 10/19/90, effective 11/19/90; 89-10-001 and 90-07-017 (Order 89-1 and 89-1A), § 173-50-210, filed 4/20/89 and 3/13/90, effective 4/13/90.]

WAC 173-50-220 Assistance to laboratories. During those calendar years in which a system audit is not required, registered laboratories may request a visit by quality assurance section personnel for the purpose of providing assistance in correcting deficiencies and improving practices for those tests covered by the scope of registration. These visits will be for the purpose of technical assistance and will not result in preparation of a corrective action report by the registered laboratory.

[Statutory Authority: RCW 43.21A.230. 90-21-090 (Order 90-21), § 173-50-220, filed 10/19/90, effective 11/19/90.]

Chapter 173-58 WAC
SOUND LEVEL MEASUREMENT PROCEDURES

WAC

173-58-010	Introduction.
173-58-020	Definitions.
173-58-030	Instrumentation.
173-58-040	Ambient conditions.
173-58-050	Measurement equipment preparation and use.
173-58-060	Equipment variation allowances.
173-58-070	Environmental noise measurement procedure.
173-58-080	Close proximity exhaust system sound level measurement procedure.
173-58-090	Reserved.

WAC 173-58-010 Introduction. (1) Authority. Statutory authority for the guidance and direction contained in these procedures is authorized by chapter 70.107 RCW, the Noise Control Act of 1974.

(2) Purpose. The purpose of these rules is to establish standardized procedures for the measurement of sound levels of sources regulated by the department of ecology, including, but not limited to, environmental noise, motor racing vehicles, construction, float planes, railroads, and aircraft engine testing. Vessels, as defined in RCW 88.12.010 (21) and regulated for noise under chapter 88.12 RCW (Regulation of recreational vessels), shall be exempt from chapter 173-58 WAC.

(3) Personnel. For the purposes of enforcement, the measurements shall be conducted only by persons qualified by training in the use of sound measuring equipment and proper site selection.

(4) These regulations will be amended as needed to include any new instrumentation, equipment, or procedures which the department shall deem necessary to accurately measure sound levels for enforcement purposes.

[Statutory Authority: Chapter 70.107 RCW. 94-12-001 (Order 92-41), § 173-58-010, filed 5/18/94, effective 6/18/94; 79-04-033 (Order DE 78-19), § 173-58-010, filed 3/22/79.]

WAC 173-58-020 Definitions. As used in this chapter, unless the context clearly indicates otherwise:

(1) "Background sound level" means the level of all sounds in a given environment, independent of the specific source being measured.

(2) "dBA" means the sound pressure level in decibels measured using the "A" weighting network on a sound level meter.

(3) "Department" means the department of ecology.

(4) "Director" means the director of the department of ecology.

(5) "EDNA" means the environmental designation for noise abatement, being an area or zone (environment) within which maximum permissible noise levels are established.

(6) "Impulse sound" means either a single pressure peak or a single burst of multiple pressure peaks which occur for a duration of less than one second as measured on a peak unweighted sound level meter.

(7) "Local government" means county or city government or any combination of the two.

(8) "Noise" means the intensity, duration and character of sounds, from any and all sources.

(9) "Operator" means any person who is in actual physical or electronic control of a motor vehicle, aircraft, off highway vehicle, or any other engine driven vehicle.

(10) "Person" means any individual, corporation, partnership, association, governmental body, state agency, or other entity whatsoever.

(11) "Property boundary" means the surveyed line at ground surface, which separates the real property owned, rented, or leased by one or more persons, from that owned, rented, or leased by one or more other persons, and its vertical extension.

(12) "Racing event" means any motor vehicle competition conducted under a permit issued by a governmental authority having jurisdiction or, if such permit is not required, then under the auspices of a recognized sanctioning body.

(13) "Receiving property" means real property within which the maximum permissible noise levels specified in WAC 173-60-040 shall not be exceeded from sources outside such property.

(14) "Shoreline" means the existing intersection of water with the ground surface or with any permanent, shore-connected facility.

(15) "Sound level meter" means a device or combination of devices which measures sound pressure levels and conforms to Type 1, Type 2, or Type 3 standards as specified in the American National Standards Institute Specification S1.4-1971. An impulse sound level meter shall be a peak or impulse, unweighted sound level meter which is capable of measuring impulse sound in conformance with the Type 1 or Type 2 specifications of ANSI S1.4-1971.

[Statutory Authority: Chapter 70.107 RCW. 94-12-001 (Order 92-41), § 173-58-020, filed 5/18/94, effective 6/18/94; 79-04-033 (Order DE 78-19), § 173-58-020, filed 3/22/79.]

WAC 173-58-030 Instrumentation. The following instrumentation and equipment shall be used for the measurement procedures established in this chapter:

(1) Sound level meter. The sound level meter shall meet the Type 1, Type 2, or Type 3 requirements of ANSI S1.4-1971. The meter weighting and response mode will be set as required in the specific procedure used. The sound level meter shall be returned to the manufacturer or a qualified laboratory at least once a year, to be calibrated to standards traceable to the National Bureau of Standards.

Type 1, Type 2, or Type 3 sound level meters shall be used for any initial inspection procedures, but only Type 1 or Type 2 sound level meters shall be used for the measurement of sound levels for enforcement purposes.

(2) Sound level calibrator. An acoustically coupled calibrator shall be used periodically to assure the accuracy of the sound level meter and microphone. The calibrator shall be returned to the manufacturer or a qualified laboratory at least once a year to be calibrated to standards traceable to the National Bureau of Standards.

(3) Tachometer. The tachometer shall be either one of two types: electric or vibrating reed. The electric tachometer shall be an inductive pickup type for easy attachment to any spark plug cable, contain its own internal power supply, and shall meet SAE J197 specifications for off road electric tachometers. The vibrating reed tachometer shall be designed for use on any internal combustion engine. Calibration accuracy for both types of tachometers shall be at least ±3 percent of full scale reading. All tachometers shall be calibrated at least once a year in accordance with the manufacturer's calibration procedures.

(4) Windscreen. A windscreen of open cell foam, cloth, or other acoustically invisible material as shall be provided by the manufacturer, shall be placed over the microphone to protect it from moisture, exhaust gases and wind effects.

(5) Anemometer. An anemometer shall be used periodically during measurements to test the wind speed.

[Statutory Authority: Chapter 70.107 RCW. 79-04-033 (Order DE 78-19), § 173-58-030, filed 3/22/79.]

WAC 173-58-040 Ambient conditions. The following ambient conditions shall be observed during measurements and shall determine whether testing is to occur or not:

(1) Wind. Sound level measurements shall not be made when the wind speed is in excess of:

(a) 20 mph (32 km/hr) for the close proximity test, WAC 173-58-080;

(b) 12 mph (19 km/hr) for all other tests.

(2) Precipitation. Sound level measurements shall not be made when precipitation is falling in such a way as to affect the equipment or the measurement readings.

(3) Background sound level. Sound level measurements shall not be made when the difference between the background sound level and the level of the measured sound source is less than 10 dBA, unless, the measurement personnel are technically qualified to logarithmically subtract the background level from the measured source's sound level.

[Statutory Authority: Chapter 70.107 RCW. 79-04-033 (Order DE 78-19), § 173-58-040, filed 3/22/79.]

WAC 173-58-050 Measurement equipment preparation and use. (1) Battery check. A battery check shall be conducted on all instruments before field calibration and measurement.

(2) Calibration. Sound level meters shall be field calibrated (using procedures described in the manufacturer's instruction manual) at the beginning and end of each measurement period, and at intervals not exceeding two hours when the instrument is used for more than a two-hour period.

(3) Microphone orientation. The microphone shall be oriented with respect to the sound source as described in the manufacturer's instruction manual.

[Statutory Authority: Chapter 70.107 RCW. 79-04-033 (Order DE 78-19), § 173-58-050, filed 3/22/79.]

WAC 173-58-060 Equipment variation allowances. Due to unavoidable variations in measurement sites and test instruments, the following allowances shall be made for the respective sound level meters:

± 1 dBA	for Type 1 sound level meters
± 2 dBA	for Type 2 sound level meters

This tolerance value shall be applied, after all necessary calculations have been made, to the final reported sound level for the measured sound source.

[Statutory Authority: Chapter 70.107 RCW. 79-04-033 (Order DE 78-19), § 173-58-060, filed 3/22/79.]

WAC 173-58-070 Environmental noise measurement procedure. (Reserved.)

[Statutory Authority: Chapter 70.107 RCW. 79-04-033 (Order DE 78-19), § 173-58-070, filed 3/22/79.]

WAC 173-58-080 Close proximity exhaust system sound level measurement procedure. This section establishes specific procedures for the measurement of sound levels from exhaust systems at a distance of 20 inches (0.5 meter) from the exhaust outlet. The procedures of subsections (3), (4) and (5) of this section shall not be used for exhaust systems which utilize the introduction of water to the exhaust gas flow for the purpose of muffling the exhaust noise levels, or systems which exhaust the gas flow directly into water.

(1) For the purposes of this section "vehicle" means any motor driven contrivance used as a means of transportation or recreation off of public highways.

(2) Initial inspection. An initial inspection of the vehicle exhaust system shall be conducted to determine if the following defects or modifications exist:

(a) The absence of a muffler;

(b) The presence of a muffler cut-out, bypass, or similar device which is not standard or normal equipment for the exhaust system being inspected;

(c) Defects in the exhaust system including, but not limited to, pinched outlets, and holes or rusted through areas of the muffler or pipes;

(d) The presence of equipment which will produce excessive or unusual noise from the exhaust system.

If the above defects are observed and are a violation of the muffler integrity standards established for the type of vehicle which is being inspected, then a citation shall be issued in accordance with the enforcement section of the applicable regulation.

An evaluation of the vehicle sound level shall also be made by the enforcement officer, using the human ear as a sensing device.

If the exhaust noise is discernibly louder than the engine noise, or if any of the defects or modifications described above exist but are not violations of applicable regulations, the enforcement officer shall request the vehicle operator to submit the vehicle to any measurement procedures described in this chapter which are applicable to the type of vehicle being inspected. If the operator refuses to submit the vehicle to these measurement procedures, he shall be in violation of this chapter.

(3) Test site and instrumentation set up. The test site and instrumentation shall be set up as follows:

(a) The test site shall be a flat, open area free of large, sound-reflecting surfaces (other than the surface on which the vehicle is resting), such as signboards, buildings, large docks, hillsides, or other vehicles, located within a 16-foot (5-meter) radius of the vehicle being tested and the location of the microphone. The vehicle shall not be on a hoist, rack, or over a pit. Testing shall not occur within a shop or building. Nobody shall stand in the measurement area, except the observer and the vehicle operator.

(b) The microphone shall be at the same height as the center of the exhaust outlet if possible, but no closer to any surface than 8 inches (0.2 meter). The microphone shall be positioned with its longitudinal axis parallel to the ground, 20 ± 1 inches (0.5 meter) from the edge of the exhaust outlet, and 45 ± 10 degrees from the axis of the outlet. For exhaust outlets located inboard from the vehicle body, the microphone shall be located at the above specified angle and at least 8 inches (0.2 meter) from the nearest part of the vehicle.

For vehicles provided with exhaust outlets spaced more than 12 inches (0.3 meter) apart, measurements shall be made for each outlet as if it were the only one, and the highest level shall be recorded. If the exhaust outlets are less than twelve inches (0.3 meter) apart, a single measurement shall be made for any one of the outlets.

For vehicles with a vertical exhaust, the microphone shall be placed at a height of 48 ± 2 inches (1.2 meter). Its axis shall be vertical and oriented upwards. It shall be placed at a distance of 20 ± 1 inches (0.5 meter) from the side of the vehicle nearest the exhaust outlet.

For vehicles with the exhaust system outlet near the engine, the engine hood (if one exists) should be closed as much as possible to reduce engine noise.

If a measuring device is attached to the exhaust outlet and the microphone to maintain proper distance, insure that no vibrations from the vehicle shall be transmitted to the instrument.

(4) Vehicle operation. The vehicle shall be operated as follows:

(a) Controlled ignition vehicles. The engine shall be operated at a normal operating temperature with transmission in park or neutral. Sound level measurements shall be made at three-fourths (75 percent) of the RPM for rated horsepower ± 100 RPM of meter reading.

(b) Vehicles with motorcycle engines. The engine shall be operated at normal operating temperatures with the transmission in neutral. If no neutral is provided, the vehicle shall be operated either with the rear wheel or wheels 2-4 inches (5-10 centimeters) clear of the ground, or with the drive chain or belt removed. The sound level measurement shall be made with the engine speed stabilized at one of the following values:

(i) If the engine data is available, test the vehicle at one-half (50 percent) of the RPM for maximum rated horsepower ± 100 RPM.

(ii) If the engine data is not available, and if the vehicle has a tachometer showing the manufacturer's recommended maximum engine speed ("red line"), test the vehicle at 60 percent of the "red line" RPM ± 100 RPM.

(iii) If the engine data and red line RPM are not available, test the vehicle at:

(A) 3500 ± 100 RPM for engines with total cylinder displacement between 0-950 cc (0-58 $in.^3$).

(B) 2800 RPM ± 100 RPM for engines with total cylinder displacement greater than 950 cc (58 $in.^3$).

(c) Diesel engine vehicles. The engine shall be operated at normal operating temperatures with transmission in park or neutral. Sound level measurements shall be made at the vehicle's maximum governed no-load speed. If the engine is not provided with a governor, the vehicle shall be operated in the same manner as a vehicle with a controlled ignition.

(5) Measurement. The exhaust system sound level shall be measured as follows:

(a) The sound level meter shall be set for slow response and on the "A" weighting scale.

(b) The sound level meter shall be observed during the full cycle of engine acceleration-deceleration. The recorded sound level shall be the highest value obtained at the appropriate, constant engine speed as specified in subsection (4) of this section, and shall exclude peaks due to unrelated ambient noise, engine noise, or extraneous impulsive-type noise.

(c) At least two measurements shall be made, and the reported sound level shall be the average of the two highest readings which are within one dBA of each other.

[Statutory Authority: Chapter 70.107 RCW. 79-04-033 (Order DE 78-19), § 173-58-080, filed 3/22/79.]

WAC 173-58-090 Reserved.

[Statutory Authority: Chapter 70.107 RCW. 94-12-001 (Order 92-41), § 173-58-090, filed 5/18/94, effective 6/18/94; 79-04-033 (Order DE 78-19), § 173-58-090, filed 3/22/79.]

Chapter 173-60 WAC
MAXIMUM ENVIRONMENTAL NOISE LEVELS

WAC

173-60-010	Authority and purpose.
173-60-020	Definitions.
173-60-030	Identification of environments.
173-60-040	Maximum permissible environmental noise levels.
173-60-050	Exemptions.
173-60-060	Nuisance regulations not prohibited.
173-60-070	Reserved.
173-60-080	Variances and implementation schedules.
173-60-090	Enforcement policy.
173-60-100	Appeals.
173-60-110	Cooperation with local government.
173-60-120	Effective date.

WAC 173-60-010 Authority and purpose. These rules are adopted pursuant to chapter 70.107 RCW, the Noise Control Act of 1974, in order to establish maximum noise levels permissible in identified environments, and thereby to provide use standards relating to the reception of noise within such environments. Vessels, as defined in RCW 88.12.010(21) and regulated for noise under chapter 88.12 RCW (Regulation of recreational vessels), shall be exempt from chapter 173-60 WAC.

[Statutory Authority: Chapter 70.107 RCW. 94-12-001 (Order 92-41), § 173-60-010, filed 5/18/94, effective 6/18/94; Order 74-32, § 173-60-010, filed 4/22/75, effective 9/1/75.]

WAC 173-60-020 Definitions. (1) "Background sound level" means the level of all sounds in a given environment, independent of the specific source being measured.

(2) "dBA" means the sound pressure level in decibels measured using the "A" weighting network on a sound level meter. The sound pressure level, in decibels, of a sound is 20 times the logarithm to the base 10 of the ratio of the pressure of the sound to a reference pressure of 20 micropascals.

(3) "Department" means the department of ecology.

(4) "Director" means the director of the department of ecology.

(5) "Distribution facilities" means any facility used for distribution of commodities to final consumers, including facilities of utilities that convey water, waste water, natural gas, and electricity.

(6) "EDNA" means the environmental designation for noise abatement, being an area or zone (environment) within which maximum permissible noise levels are established.

(7) "Existing" means a process, event, or activity in an established area, producing sound subject to or exempt from this chapter, prior to the effective date of September 1, 1975.

(8) "Local government" means county or city government or any combination of the two.

(9) "Noise" means the intensity, duration and character of sounds, from any and all sources.

(10) "Person" means any individual, corporation, partnership, association, governmental body, state agency or other entity whatsoever.

(11) "Property boundary" means the surveyed line at ground surface, which separates the real property owned, rented, or leased by one or more persons, from that owned, rented, or leased by one or more other persons, and its vertical extension.

(12) "Racing event" means any motor vehicle competition conducted under a permit issued by a governmental authority having jurisdiction or, if such permit is not required, then under the auspices of a recognized sanctioning body.

(13) "Receiving property" means real property within which the maximum permissible noise levels specified herein shall not be exceeded from sources outside such property.

(14) "Sound level meter" means a device which measures sound pressure levels and conforms to Type 1 or Type 2 as specified in the American National Standards Institute Specification S1.4-1971.

[Statutory Authority: Chapter 70.107 RCW. 94-12-001 (Order 92-41), § 173-60-020, filed 5/18/94, effective 6/18/94; 83-15-046 (Order DE 82-42), § 173-60-020, filed 7/19/83; Order DE 77-1, § 173-60-020, filed 6/1/77; Order 74-32, § 173-60-020, filed 4/22/75, effective 9/1/75.]

WAC 173-60-030 Identification of environments. (1) Except when included within specific prior designations as provided in subsections (2), (3), and (4) of this section, the EDNA of any property shall be based on the following typical uses, taking into consideration the present, future, and historical usage, as well as the usage of adjacent and other lands in the vicinity.

(a) Class A EDNA - Lands where human beings reside and sleep. Typically, Class A EDNA will be the following types of property used for human habitation:

(i) Residential

(ii) Multiple family living accommodations

(iii) Recreational and entertainment, (e.g., camps, parks, camping facilities, and resorts)

(iv) Community service, (e.g., orphanages, homes for the aged, hospitals, health and correctional facilities)

(b) Class B EDNA - Lands involving uses requiring protection against noise interference with speech. Typically, Class B EDNA will be the following types of property:

(i) Commercial living accommodations

(ii) Commercial dining establishments

(iii) Motor vehicle services

(iv) Retail services

(v) Banks and office buildings

(vi) Miscellaneous commercial services, property not used for human habitation

(vii) Recreation and entertainment, property not used for human habitation (e.g., theaters, stadiums, fairgrounds, and amusement parks)

(viii) Community services, property not used for human habitation (e.g., educational, religious, governmental, cultural and recreational facilities).

(c) Class C EDNA - Lands involving economic activities of such a nature that higher noise levels than experienced in other areas is normally to be anticipated. Persons working in these areas are normally covered by noise control regulations of the department of labor and industries. Uses typical of Class A EDNA are generally not permitted within such areas. Typically, Class C EDNA will be the following types of property:

(i) Storage, warehouse, and distribution facilities.

(ii) Industrial property used for the production and fabrication of durable and nondurable man-made goods

(iii) Agricultural and silvicultural property used for the production of crops, wood products, or livestock.

(d) Where there is neither a zoning ordinance in effect nor an adopted comprehensive plan, the legislative authority of local government may, by ordinance or resolution, designate specifically described EDNAs which conform to the above use criteria and, upon departmental approval, EDNAs so designated shall be as set forth in such local determination.

(e) Where no specific prior designation of EDNAs has been made, the appropriate EDNA for properties involved in any enforcement activity will be determined by the investigating official on the basis of the criteria of (a), (b), and (c) of this subsection.

(2) In areas covered by a local zoning ordinance, the legislative authority of the local government may, by ordinance or resolution designate EDNAs to conform with the zoning ordinance as follows:

(a) Residential zones - Class A EDNA

(b) Commercial zones - Class B EDNA

(c) Industrial zones - Class C EDNA

Upon approval by the department, EDNAs so designated shall be as set forth in such local determination. EDNA designations shall be amended as necessary to conform to zone changes under the zoning ordinance.

(3) In areas not covered by a local zoning ordinance but within the coverage of an adopted comprehensive plan the legislative authority of the local government may, by ordinance or resolution designate EDNAs to conform with the comprehensive plan as follows:

(a) Residential areas - Class A EDNA

(b) Commercial areas - Class B EDNA

(c) Industrial areas - Class C EDNA

Upon approval by the department EDNAs so designated shall be as set forth in such local determination. EDNA designations shall be amended as necessary to conform to changes in the comprehensive plan.

(4) The department recognizes that on certain lands, serenity, tranquillity, or quiet are an essential part of the quality of the environment and serve an important public need. Special designation of such lands with appropriate noise level standards by local government may be adopted subject to approval by the department. The director may make such special designation pursuant to the procedures of the Administrative Procedure Act, chapter 34.04 RCW.

[Order 74-32, § 173-60-030, filed 4/22/75, effective 9/1/75.]

WAC 173-60-040 Maximum permissible environmental noise levels. (1) No person shall cause or permit noise to intrude into the property of another person which noise exceeds the maximum permissible noise levels set forth below in this section.

(2)(a) The noise limitations established are as set forth in the following table after any applicable adjustments provided for herein are applied.

EDNA OF NOISE SOURCE	EDNA OF RECEIVING PROPERTY		
	Class A	Class B	Class C
CLASS A	55 dBA	57 dBA	60 dBA
CLASS B	57	60	65
CLASS C	60	65	70

(b) Between the hours of 10:00 p.m. and 7:00 a.m. the noise limitations of the foregoing table shall be reduced by 10 dBA for receiving property within Class A EDNAs.

(c) At any hour of the day or night the applicable noise limitations in (a) and (b) above may be exceeded for any receiving property by no more than:

(i) 5 dBA for a total of 15 minutes in any one-hour period; or

(ii) 10 dBA for a total of 5 minutes in any one-hour period; or

(iii) 15 dBA for a total of 1.5 minutes in any one-hour period.

[Order 74-32, § 173-60-040, filed 4/22/75, effective 9/1/75.]

WAC 173-60-050 Exemptions. (1) The following shall be exempt from the provisions of WAC 173-60-040 between the hours of 7:00 a.m. and 10:00 p.m.:

(a) Sounds originating from residential property relating to temporary projects for the maintenance or repair of homes, grounds and appurtenances.

(b) Sounds created by the discharge of firearms on authorized shooting ranges.

(c) Sounds created by blasting.

(d) Sounds created by aircraft engine testing and maintenance not related to flight operations: Provided, That aircraft testing and maintenance shall be conducted at remote sites whenever possible.

(e) Sounds created by the installation or repair of essential utility services.

(2) The following shall be exempt from the provisions of WAC 173-60-040 (2)(b):

(a) Noise from electrical substations and existing stationary equipment used in the conveyance of water, waste water, and natural gas by a utility.

(b) Noise from existing industrial installations which exceed the standards contained in these regulations and which, over the previous three years, have consistently operated in excess of 15 hours per day as a consequence of process necessity and/or demonstrated routine normal operation. Changes in working hours, which would affect exemptions under this regulation, require approval of the department.

(3) The following shall be exempt from the provisions of WAC 173-60-040, except insofar as such provisions relate to the reception of noise within Class A EDNAs between the hours of 10:00 p.m. and 7:00 a.m.

(a) Sounds originating from temporary construction sites as a result of construction activity.

(b) Sounds originating from forest harvesting and silvicultural activity.

(4) The following shall be exempt from all provisions of WAC 173-60-040:

(a) Sounds created by motor vehicles when regulated by chapter 173-62 WAC.

(b) Sounds originating from aircraft in flight and sounds that originate at airports which are directly related to flight operations.

(c) Sounds created by surface carriers engaged in interstate commerce by railroad.

(d) Sounds created by warning devices not operating continuously for more than five minutes, or bells, chimes, and carillons.

(e) Sounds created by safety and protective devices where noise suppression would defeat the intent of the device or is not economically feasible.

(f) Sounds created by emergency equipment and work necessary in the interests of law enforcement or for health safety or welfare of the community.

(g) Sounds originating from motor vehicle racing events at existing authorized facilities.

(h) Sounds originating from officially sanctioned parades and other public events.

(i) Sounds emitted from petroleum refinery boilers during startup of said boilers: Provided, That the startup operation is performed during daytime hours whenever possible.

(j) Sounds created by the discharge of firearms in the course of hunting.

(k) Sounds caused by natural phenomena and unamplified human voices.

(l) Sounds created by motor vehicles, licensed or unlicensed, when operated off public highways EXCEPT when such sounds are received in Class A EDNAs.

(m) Sounds originating from existing natural gas transmission and distribution facilities. However, in circumstances where such sounds impact EDNA Class A environments and complaints are received, the director or his designee may take action to abate by application of EDNA Class C source limits to the facility under the requirements of WAC 173-60-050(5).

(6) Nothing in these exemptions is intended to preclude the department from requiring installation of the best available noise abatement technology consistent with economic feasibility. The establishment of any such requirement shall be subject to the provisions of the Administrative Procedure Act, chapter 34.04 RCW.

[Statutory Authority: Chapter 70.107 RCW. 94-12-001 (Order 92-41), § 173-60-050, filed 5/18/94, effective 6/18/94; 83-15-046 (Order DE 82-42), § 173-60-050, filed 7/19/83; Order DE 77-1, § 173-60-050, filed 6/2/77; Order 75-18, § 173-60-050, filed 8/1/75; Order 74-32, § 173-60-050, filed 4/22/75, effective 9/1/75.]

WAC 173-60-060 Nuisance regulations not prohibited. Nothing in this chapter or the exemptions provided herein, shall be construed as preventing local government from regulating noise from any source as a nuisance. Local resolutions, ordinances, rules or regulations regulating noise on such a basis shall not be deemed inconsistent with this chapter by the department.

[Order 74-32, § 173-60-060, filed 4/22/75, effective 9/1/75.]

WAC 173-60-070 Reserved. Reserved.

[Statutory Authority: Chapter 70.107 RCW. 00-24-134 (Order 00-24), § 173-60-070, filed 12/6/00, effective 1/6/01; 94-12-001 (Order 92-41), § 173-60-070, filed 5/18/94, effective 6/18/94; Order DE 77-1, § 173-60-070, filed 6/1/77; Order 74-32, § 173-60-070, filed 4/22/75, effective 9/1/75.]

WAC 173-60-080 Variances and implementation schedules. (1) Variances may be granted to any person from any particular requirement of this chapter, if findings are

made that immediate compliance with such requirement cannot be achieved because of special circumstances rendering immediate compliance unreasonable in light of economic or physical factors, enroachment [encroachment] upon an existing noise source, or because of nonavailability of feasible technology or control methods. Any such variance or renewal thereof shall be granted only for the minimum time period found to be necessary under the facts and circumstances.

(2) An implementation schedule for achieving compliance with this chapter shall be incorporated into any variance issued.

(3) Variances shall be issued only upon application in writing and after providing such information as may be requested. No variance shall be issued for a period of more than 30 days except upon due notice to the public with opportunity to comment. Public hearings may be held, when substantial public interest is shown, at the discretion of the issuing agency.

(4) Sources of noise, subject to this chapter, upon which construction begins after the effective date hereof shall immediately comply with the requirements of this chapter, except in extraordinary circumstances where overriding considerations of public interest dictate the issuance of a variance.

[Order 74-32, § 173-60-080, filed 4/22/75, effective 9/1/75.]

WAC 173-60-090 Enforcement policy. Noise measurement for the purposes of enforcing the provisions of WAC 173-060-040 shall be measured in dBA with a sound level meter with the point of measurement being at any point within the receiving property. Such enforcement shall be undertaken only upon receipt of a complaint made by a person who resides, owns property, or is employed in the area affected by the noise complained of, EXCEPT for parks, recreational areas, and wildlife sanctuaries. For enforcement purposes pursuant to RCW 70.107.050, each day, defined as the 24-hour period beginning at 12:01 a.m., in which violation of the noise control regulations (chapter 173-60 WAC) occurs, shall constitute a separate violation.

[Order DE 76-5, § 173-60-090, filed 2/5/76; Order 74-32, § 173-60-090, filed 4/22/75, effective 9/1/75.]

WAC 173-60-100 Appeals. Any person aggrieved by any decision of the department in relation to the enforcement of the maximum permissible noise levels provided for herein, the granting or denial of a variance or the approval or disapproval of a local resolution or ordinance for noise abatement and control may appeal to the pollution control hearings board pursuant to chapter 43.21B RCW under the procedures of chapter 371-08 WAC.

[Order 74-32, § 173-60-100, filed 4/22/75, effective 9/1/75.]

WAC 173-60-110 Cooperation with local government. (1) The department conceives the function of noise abatement and control to be primarily the role of local government and intends actively to encourage local government to adopt measures for noise abatement and control. Wherever such measures are made effective and are being actively enforced, the department does not intend to engage directly in enforcement activities.

(2) No ordinance or resolution of any local government which imposes noise control requirements differing from those adopted by the department shall be effective unless and until approved by the director. If approval is denied, the department, following submission of such local ordinance or resolution to the department, shall deliver its statement or order of denial, designating in detail the specific provision(s) found to be objectionable and the precise grounds upon which the denial is based, and shall submit to the local government, the department's suggested modification.

(3) The department shall encourage all local governments enforcing noise ordinances pursuant to this chapter to consider noise criteria and land use planning and zoning.

[Statutory Authority: Chapter 70.107 RCW. 87-06-056 (Order 86-40), § 173-60-110, filed 3/4/87; Order 74-32, § 173-60-110, filed 4/22/75, effective 9/1/75.]

WAC 173-60-120 Effective date. This chapter shall become effective on September 1, 1975. It is the intention of the department to periodically review the provisions hereof as new information becomes available for the purpose of making amendments as appropriate.

[Order 74-32, § 173-60-120, filed 4/22/75, effective 9/1/75.]

Chapter 173-62 WAC
MOTOR VEHICLE NOISE PERFORMANCE STANDARDS

WAC

173-62-010	Authority and purpose.
173-62-020	Definitions.
173-62-030	Standards.
173-62-040	Exemptions.
173-62-050	Implementation schedules.
173-62-060	Enforcement.
173-62-070	Effective date.

WAC 173-62-010 Authority and purpose. (1) Under RCW 70.107.030(5) of the Noise Control Act of 1974 (chapter 183, Laws of 1974), the legislature directed the department of ecology, in exercising rule-making authority to give first priority to the adoption of motor vehicle noise performance standards. The purpose of this chapter is to carry out that legislative directive through the adoption of noise emission standards for new motor vehicles and noise emission standards for the operation of motor vehicles on public highways.

(2) Local needs. The standards established in this chapter provide several methods of evaluating motor vehicle noise levels. Nothing in these rules is meant to require enforcement agencies or local governments to adopt or use every standard in this chapter to determine a violation. Specific local needs shall dictate the standard(s) which may be adopted or used.

[Statutory Authority: Chapter 70.107 RCW. 80-14-041 (Order DE 80-29), § 173-62-010, filed 9/30/80; Order DE 74-33, § 173-62-010, filed 1/30/75, effective 7/1/75.]

WAC 173-62-020 Definitions. As used in this chapter:

(1) "dBA" means the sound level in decibels measured using the "A" weighting network on a sound level meter as

specified in the American National Standard Specification for Sound Level Meters S1.4-1971. A decibel is a unit of sound, based on a logarithmic scale, of the ratio of the magnitude of a particular sound pressure to a standard reference pressure of 20 micropascals;

(2) "Department" means the department of ecology;

(3) "Director" means director of the department of ecology;

(4) "Gross vehicle weight rating (GVWR)" means the value specified by the manufacturer as the loaded weight of a single vehicle;

(5) "In-use" motor vehicle is any motor vehicle which is used on a public highway, except farm vehicles as defined under RCW 46.04.181;

(6) "Motor vehicle" means any vehicle which is self-propelled, used primarily for transporting persons or property upon public highways and required to be licensed under RCW 46.16.010 (aircraft, water craft and vehicles used exclusively on stationary rails or tracks are not motor vehicles as that term is used herein);

(7) "Motorcycle" means any motor vehicle having a saddle for the use of the rider and designed to travel on not more than three wheels in contact with the ground, except farm tractors;

(8) "Muffler" means a device consisting of a series of chambers or other mechanical designs for the purpose of receiving exhaust gas from an internal combustion engine and effective in reducing noise to comply with the standards of this chapter;

(9) "New motor vehicle" means a motor vehicle manufactured after December 31, 1975, whose equitable or legal title has never been transferred to a person who, in good faith, purchases the new motor vehicle for purposes other than resale;

(10) "Off-highway vehicle" means any self-propelled vehicle not used primarily for transporting persons or property upon public highways nor required to be licensed under RCW 46.16.010;

(11) "Person" means any individual, corporation, partnership, association, governmental body, state agency or other entity whatsoever;

(12) "Public highway" means the entire width between the boundary lines of every way publicly maintained by the department of highways or any county or city when any part thereof is generally open to the use of the public for purposes of vehicular travel as a matter of right;

(13) "Sound level" means a weighted sound pressure level measured by use of a sound level meter using the "A" weighting network and reported as dBA.

[Statutory Authority: Chapter 70.107 RCW. 80-14-041 (Order DE 80-29), § 173-62-020, filed 9/30/80; Order DE 75-17, § 173-62-020, filed 8/11/75; Order DE 74-33, § 173-62-020, filed 1/30/75, effective 7/1/75.]

WAC 173-62-030 Standards. (1) No person shall operate any motor vehicle or any combination of such vehicles upon any public highway under any conditions of grade, load, acceleration or deceleration in such a manner as to exceed the maximum permissible sound levels for the category of vehicle in Table I, as measured at a distance of 50 feet (15.2 meters) from the center of the lane of travel within the speed limits specified, under procedures established by the state commission on equipment in chapter 204-56 WAC, "procedures for measuring motor vehicle sound levels."

Table I
IN-USE MOTOR VEHICLE NOISE PERFORMANCE STANDARDS

Measured @ 50 feet (15.2 meters)

Vehicle Category (type)	Effective Date	Maximum Sound Level, dBA Speed Zones: 45 mph (72 kph) or less	Maximum Sound Level, dBA Speed Zones: Over 45 mph (72 kph)	Stationary Test
Motorcycles	July 1, 1980	78	82	N/A
Automobiles, light trucks and all other motor vehicles 10,000 pounds (4536 kg) GVWR or less	July 1, 1980	72 35 mph (56 kph) or less	78 Over 35 mph (56 kph)	N/A
All motor vehicles over 10,000 pounds (4536 kg) GVWR	June 1, 1977 1986 and after	86 Reserved	90 Reserved	86 Reserved

(2) Every motor vehicle operated upon the public highways shall at all times be equipped with an exhaust system and a muffler in good working order and constant operation to prevent excessive or unusual noise.

(3) No person shall operate a motor vehicle in such a manner as to cause or allow to be emitted squealing, screeching or other such noise from the tires in contact with the ground because of rapid acceleration or excessive speed around corners or other such reason, except that noise resulting from emergency braking to avoid imminent danger shall be exempt from this provision.

(4) No person shall operate any motor vehicle upon any public highway if the vehicle exhaust system exceeds the maximum permissible sound levels of Table II for the category and year of vehicle, as measured at a distance of twenty inches (0.5 meter) from the exhaust outlet under procedures established by the state commission on equipment in chapter 204-56 WAC, "procedures for measuring motor vehicle sound levels."

(5) No person shall sell or offer for sale a NEW MOTOR VEHICLEexcept an off-highway vehicle, which produces a maximum noise exceeding the noise levels in Table III at a distance of 50 feet (15.2 meters) under acceleration test procedures established by the state commission on equipment in chapter 204-56 WAC, "procedures for measuring motor vehicle sound levels."

Table II
IN-USE MOTOR VEHICLE EXHAUST SYSTEM NOISE PERFORMANCE STANDARDS

Measured @ 20 inches (0.5 meters)

Vehicle Category (type)	Model Year	Maximum Sound Level, dBA
Motorcycles	before 1986	99
	1986 and after	(reserved)
Automobiles, light trucks and all other motor vehicles 10,000 pounds (4536 kg) GVWR or less	before 1986	95
	1986 and after	(reserved)

Table III
MAXIMUM SOUND LEVELS FOR NEW MOTOR VEHICLES

Measured @ 50 feet (15.2 meters)

Vehicle Category (type)	Date of Manufacture	Maximum Sound Level, dBA
Any motor vehicle over 10,000 pounds (4536 kg) GVWR excluding buses	before January 1, 1978	86
	after January 1, 1978	83
	after January 1, 1982	80
All buses over 10,000 pounds (4536 kg) GVWR	after January 1, 1980	85
	after January 1, 1983	83
	after January 1, 1986	80
Motorcycles	after January 1, 1976	83
	after January 1, 1986	80
Automobiles, light trucks and all other motor vehicles 10,000 pounds (4536 kg) GVWR or less	after January 1, 1976	80

[Statutory Authority: Chapter 70.107 RCW. 80-14-041 (Order DE 80-29), § 173-62-030, filed 9/30/80; Order DE 77-2, § 173-62-030, filed 6/1/77; Order DE 75-17, § 173-62-030, filed 8/11/75; Order DE 74-33, § 173-62-030, filed 1/30/75, effective 7/1/75.]

WAC 173-62-040 Exemptions. The provisions of this chapter shall not apply to noise caused by auxiliary equipment on motor vehicles used for highway maintenance, nor to noise caused in the performance of emergency work for the immediate safety, health or welfare of the community or of individuals of the community, or to restore property to a safe condition following a public calamity.

[Order DE 75-17, § 173-62-040, filed 8/11/75; Order DE 74-33, § 173-62-040, filed 1/30/75, effective 7/1/75.]

WAC 173-62-050 Implementation schedules. (1) **Conditions of issuance.** The department may approve and issue to any person, an implementation schedule for meeting any particular requirement of this chapter, if it finds that immediate compliance with such requirement cannot be achieved because of conditions beyond the control of such person or because of special circumstances rendering immediate compliance unreasonable in light of economic or physical factors or because of the nonavailability of feasible technology or control methods.

(2) **Requesting procedure.** Implementation schedules shall be issued only upon application in writing to the department. Such application shall state in a concise manner the facts to show cause why such schedule should be approved. Any aggrieved person may appeal the department's decision on an application to the pollution control hearings board pursuant to chapter 43.21B RCW.

[Order DE 74-33, § 173-62-050, filed 1/30/75, effective 7/1/75.]

WAC 173-62-060 Enforcement. (1) Measurements shall be made with a sound level meter meeting Type 1, S1A, 2 or S2A requirements as specified in the American National Standards Specifications for Sound Level Meters S1.4-1971 as required under measurement procedures established in chapter 204-56 WAC, "procedures for measuring motor vehicle sound levels."

(2) Violation of any in-use motor vehicle noise standard set forth in this chapter shall be a traffic infraction, enforced by such authorities and in such manner as violations of chapter 46.37 RCW.

(3) Law enforcement personnel selected to measure vehicle sound levels shall have received training in the techniques of sound measurement and the operation of sound measuring instruments.

(4) Any enforcement officer who by use of the initial inspection procedures of chapter 204-56 WAC suspects that a motor vehicle may be in violation of the standards of this chapter may require the operator to have the vehicle presented for sound level measurement. Measurements of a motor vehicle may be performed at off-road sites to determine compliance with the in-use standards.

(5) Any operator who fails to comply with the directive to present the vehicle to a sound level measurement test shall be in violation of this chapter.

(6) Any seller, importer, or manufacturer who sells or offers for sale a motor vehicle which violates the standards in WAC 173-62-030 shall be subject to a civil penalty not to exceed one hundred dollars as established in RCW 70.107.050. Every motor vehicle sold or offered for sale shall constitute a separate violation.

[Statutory Authority: Chapter 70.107 RCW. 80-14-041 (Order DE 80-29), § 173-62-060, filed 9/30/80; Order DE 74-33, § 173-62-060, filed 1/30/75, effective 7/1/75.]

WAC 173-62-070 Effective date. This chapter shall become effective July 1, 1975.

[Order DE 74-33, § 173-62-070, filed 1/30/75, effective 7/1/75.]

Chapter 173-80 WAC

LIMITATIONS ON USE OF REFERENDUM 39 GRANT FUNDS FOR WATER POLLUTION ABATEMENT

WAC

173-80-010 Purpose and scope.
173-80-020 Definitions.
173-80-030 Limitations on the use of funds.
173-80-040 Provision of guidelines.
173-80-050 Wastewater treatment works grants—Priority rating and other provisions.
173-80-060 Lake restoration project grants—General eligibility requirements and priority rating.
173-80-070 Agricultural wastes project grants—General eligibility requirements and priority rating.
173-80-080 Limiting the use of existing Referendum 39 regulations and funds.

WAC 173-80-010 Purpose and scope. The purpose of this chapter is to set forth limitations on the allocation and uses of monies administered by the department of ecology for purposes of providing grants and loans for wastewater treatment facilities, agricultural pollution abatement facilities, and lake restoration projects pursuant to chapter 43.99F RCW (Referendum 39). To derive the most benefit for the state in protecting the health and safety of the people it is necessary to establish criteria for the use of funds made available by Referendum 39. This chapter will outline (1) limitations on the allocation and uses of the funds, (2) the criteria to be considered for determining who will receive funds, and (3) the process to be followed for distributing the funds.

[Statutory Authority: RCW 43.21A.080. 82-05-011 (Order DE 81-50), § 173-80-010, filed 2/5/82.]

WAC 173-80-020 Definitions. (1) "Department" means the Washington state department of ecology.

(2) "Wastewater treatment works construction program" (hereinafter referred to as the wastewater treatment program) means the state/local program of grants and loans under chapter 43.99F RCW (Referendum 39) to public entities for the purpose of planning, designing, constructing, or upgrading treatment works.

(3) "Agricultural wastes grants program" means the program of grants and loans administered by the department for the planning, design and construction of publicly owned or operated agricultural pollution control facilities.

(4) "Lake restoration grants program" means the program of state grants and loans administered by the department for the planning, design and implementation of lake restoration projects.

(5) "Director" means the director of the Washington state department of ecology or his or her authorized designee.

(6) "Management of wastes" means the control, collection, transport, treatment, and disposal of nonradioactive solid and nonradioactive liquid waste materials.

(7) "Renewable energy" means, but is not limited to, the production of steam, hot water for steam heat, electricity, cogeneration, gas, fuel through incineration of wastes, refuse-derived fuel processes, pyrolysis, hydrolysis or bioconversion, and energy savings through material recovery from waste source separation and/or recycling.

(8) "Energy savings as a result of the management of the wastes" means but is not limited to the capital cost associated with an energy efficient treatment or transport process chosen over a process more commonly used in standard engineering practice which is more energy intensive.

(9) "Project priority list" means the annual list of rated and ranked projects for which state grant assistance is expected during the year for which the list is issued.

(10) "Priority rating system" means the process and criteria used by the department of ecology to rate and rank projects in the state that are considered eligible for assistance under chapter 43.99F RCW.

[Statutory Authority: RCW 43.21A.080. 82-05-011 (Order DE 81-50), § 173-80-020, filed 2/5/82.]

WAC 173-80-030 Limitations on the use of funds. (1) The following water program projects shall be eligible for state grants, loans, or combination of grants and loans in an amount not to exceed seventy-five percent of the total eligible cost of the project as determined by the department and subject to the special provisions contained in this chapter.

(a) Wastewater treatment projects.

(b) Lake restoration projects.

(c) Agricultural pollution control projects.

(2) Loans may be authorized by the director, provided:

(a) The loan repayment period does not exceed five years.

(b) The cumulative total of all loans authorized during any biennium does not exceed ten percent of the cumulative total of funds appropriated by the legislature for that biennium, excluding any special appropriation authorized by WAC 173-80-050(6).

(c) The director considers and documents why it is in the best interest of the state's citizens to provide a loan.

(d) The director considers and documents how the loan will be repaid.

(3) The wastewater treatment program will establish an accounting procedure to identify the money which is spent on projects that are capable of producing renewable energy or energy savings as a result of the management of the wastes.

[Statutory Authority: RCW 43.21A.080. 82-05-011 (Order DE 81-50), § 173-80-030, filed 2/5/82.]

WAC 173-80-040 Provision of guidelines. The department will publish guidelines which establish procedures for awarding grants and eligibility criteria for each Referendum 39 grant program identified in WAC 173-80-030(1). These guidelines will describe the grant application, review, and award process and will be available prior to the first grant award.

[Statutory Authority: RCW 43.21A.080. 82-05-011 (Order DE 81-50), § 173-80-040, filed 2/5/82.]

WAC 173-80-050 Wastewater treatment works grants—Priority rating and other provisions. (1) In instances where applications for wastewater treatment works grant funds exceed the amount currently available to the department, the director will establish a project priority list using published priority rating criteria which consider, but are not limited to, the following:

(a) Water quality impacts caused by existing circumstances.

(b) Public health impacts caused by existing circumstances.

(c) The prior local effort expended toward correcting the existing or similar wastewater problems.

(d) The cost-benefit relationship of the proposed project.

(e) Problem prevention aspects of the proposed project.

(2) In instances where a priority list is required, the director will ensure that:

(a) A project priority list is developed on an annual basis.

(b) The priority list be readily available to the public for review and comment thirty days prior to its approval by the director.

(c) Comments received during any review period are considered and responded to before a final list is approved by the director.

(d) An approved list is available on or about forty-five days after the close of the application period.

(3) The department may use funds authorized by chapter 43.99F RCW as fifteen percent grants to wastewater treatment projects for public entities who have received a federal grant under Title II of Public Law 97-117 prior to October 1, 1982, or a written guarantee from the department, prior to the effective date of this chapter, that such a grant will be available when a federal grant is received. New phases of those continuing construction wastewater treatment projects begun prior to October 1, 1982, are also eligible for a fifteen percent grant. Funds are to be awarded under this authority only if funds provided by chapter 43.83A RCW (Referendum Bill No. 26) are not available.

(4) Prior to December 31, 1982, the department may award a grant for seventy-five percent of the eligible costs for completion of any wastewater treatment facility that began construction under the federal wastewater treatment program prior to October 1, 1981, and is not scheduled to receive a federal grant prior to federal fiscal year 1983.

(5) Wastewater treatment program projects, except those allowed by WAC 173-80-050(4), shall not receive grants exceeding fifty percent of the eligible costs of the project.

(6) The director may enter into a single lump sum design and construction contract with a grantee whose project exceeds a total cost of $100 million and requires more than three years to design and construct, providing that all the following conditions are met:

(a) The project appears on the current project priority list within the range fundable with remaining, unobligated monies authorized by chapter 43.99F RCW.

(b) The contract contains provisions limiting the total amount of state funding to fifty percent of the eligible costs or an agreed upon figure (whichever is less), establishing cash flow agreements, and any other provisions the director deems necessary to protect the financial interests of the state.

(c) The legislature appropriates the necessary funds.

(d) The grantee agrees to a one-time grant, including limited increases at time of bid, and will not thereafter seek any further funds under the provisions of chapter 43.99F RCW.

[Statutory Authority: RCW 43.21A.080. 82-05-011 (Order DE 81-50), § 173-80-050, filed 2/5/82.]

WAC 173-80-060 Lake restoration project grants—General eligibility requirements and priority rating. (1) General eligibility requirements include:

(a) The lake must have a documented water quality problem which is resulting in impairment of beneficial uses;

(b) The proposed project must be sponsored by a public body as defined in chapter 43.99F RCW;

(c) The project sponsor must be able to provide at least ten percent of the total project cost unless a lower share is specifically authorized by the director; and

(d) Public access must be provided which is sufficient to allow the general public the same opportunity to enjoy the lake's recreational benefits as that enjoyed by residents living immediately adjacent to the lake.

(2) When applications for grant funds exceed the amount currently available to the department, the director will establish a lake restoration project priority list using rating criteria which consider, but are not limited to, the following:

(a) Water quality improvements to be achieved

(b) Increased or enhanced lake utilization

(c) Restoration potential

(d) Public health impacts to be corrected

(3) When a lake restoration project priority list is required, the director will ensure that the priority list is readily available to the public for review and comment thirty days prior to its approval by the director.

[Statutory Authority: RCW 43.21A.080. 82-05-011 (Order DE 81-50), § 173-80-060, filed 2/5/82.]

WAC 173-80-070 Agricultural wastes project grants—General eligibility requirements and priority rating. (1) General eligibility requirements include:

(a) The project sponsor must be a public body as defined in chapter 43.99F RCW;

(b) Eligible project elements must benefit the public and be utilized by more than one member of the sponsoring group or agency;

(c) The project must directly benefit the quality of the receiving water; and

(d) The project sponsor must provide at least ten percent of the grant eligible costs unless a lesser amount is authorized by the director.

(2) Project rating—When applications for grant funds exceed the amount currently available to the department, the director will establish an agricultural wastes project priority list using criteria which includes, but are not limited to:

(a) Water quality improvements to be achieved

(b) Improved efficiency in water quantity utilization

(c) Resource conservation potential

(d) Reduction in impairment of beneficial uses

(3) When an agricultural waste project priority list is required, the director will ensure that the priority list is readily available to the public for review and comment thirty days prior to its approval by the director.

[Statutory Authority: RCW 43.21A.080. 82-05-011 (Order DE 81-50), § 173-80-070, filed 2/5/82.]

WAC 173-80-080 Limiting the use of existing Referendum 39 regulations and funds. This chapter is not applicable to the allocation and uses of moneys administered by the department of ecology pursuant to chapter 3, Laws of 1986.

[Statutory Authority: 1986 c 3 § 4. 86-19-041 (Order DE 86-26), § 173-80-080, filed 9/12/86.]

Chapter 173-95A WAC
USES AND LIMITATIONS OF CENTENNIAL CLEAN WATER FUNDS

WAC

173-95A-010	What is the purpose of this chapter?
173-95A-020	What are the definitions of key terms?
173-95A-030	How and under what conditions, can money from the centennial fund be used?
173-95A-040	Where can I obtain details about the application and review process for centennial funds?
173-95A-050	How can a local area have a role in determining funding priorities?

173-95A-060	What are the limitations on the use of funds?
173-95A-070	How does the Growth Management Act impact the use of funds?
173-95A-080	What is the "step process" for planning facilities and activities projects?
173-95A-090	What other laws, regulations or requirements must recipients comply with?
173-95A-100	How are grants and loans managed?
173-95A-110	General provisions.

WAC 173-95A-010 What is the purpose of this chapter? The purpose of this chapter is to set forth limitations on the allocation and uses of moneys administered by the department of ecology from a special fund within the state treasury known as the water quality account, as authorized by chapter 70.146 RCW. This fund provides financial assistance, in the form of loans and grants to meet high priority water quality management needs, to public bodies throughout the state of Washington. Funded projects must address water quality problems related to public health and environmental degradation. In order to encourage the timely use of funds provided by the state legislature, priority will be given to projects shown to be ready to proceed.

[Statutory Authority: Chapter 70.146 RCW. 01-01-042 (Order 00-10), § 173-95A-010, filed 12/8/00, effective 1/8/01. Statutory Authority: RCW 70.146.070 and 36.70A.040. 97-24-096 (Order 97-31), § 173-95A-010, filed 12/3/97, effective 1/3/98.]

WAC 173-95A-020 What are the definitions of key terms? (1) "Activities" - see "water pollution control activity."

(2) "Applicant" means a public body that has applied for funding.

(3) "Best management practices" means physical, structural, and/or managerial practices, approved by the department, that, when used singularly or in combination, prevent or reduce pollutant discharges.

(4) "Cash match" means funds to match the state share of a grant that are under the sole control of a public body.

(5) "Centennial" means the centennial clean water fund.

(6) "Ceiling amounts" means the largest amount of financial assistance the department can provide to an individual project. Ceiling amounts vary based on factors including the type of project and whether a loan or a grant is awarded.

(7) "Commercial, industrial, and institutional flows" means the portion of the total flows to a facilities project that originate from commercial establishments, industrial facilities, or institutional sources such as schools, hospitals, and prisons.

(8) "Cost-effective alternative" means the alternative with the lowest present worth or equivalent annual value that achieves the requirements of the facility and that recognizes environmental and other nonmonetary considerations.

(9) "Department" means the department of ecology.

(10) "Easement," for the purposes of this rule, means a written agreement between a public body and an individual landowner, that allows the public body to have access to the property at any time to inspect, maintain, or repair activities or facilities installed with a loan or a grant, or to hold occasional public tours of the site for educational purposes.

(11) "Eligible cost" means the portion of the cost of the facilities or activities project that can be financed under the provisions of this chapter.

(12) "Enforcement order" means an administrative order that is a document issued by the department under the authority of RCW 90.48.120 and that directs a public body to complete a specified course of action within an explicit period of time to achieve compliance with the provisions of chapter 90.48 RCW.

(13) "Engineering report" means a report that evaluates engineering and other alternatives that meet the requirements set forth in chapter 173-240 WAC, Submission of plans and reports for construction of wastewater facilities.

(14) "Environmental emergency" means a problem that a public body and the department agree poses a serious, immediate threat to the environment or to the health or safety of a community, and requires immediate corrective action.

(15) "Estimated construction cost" means the estimated sum of moneys, excluding sales tax, to be paid to construction contractors and suppliers for all labor, materials, equipment, and other related work necessary to construct the proposed project.

(16) "Existing needs" means water pollution control facilities capability for the existing population in order to meet the requirements of the water quality based effluent limitations in the recipient's National Pollution Discharge Elimination System or state waste discharge permit.

(17) "Existing residential need" means water pollution control facilities capability for the existing residential population in order to meet the water quality based effluent limitations in the recipient's National Pollution Discharge Elimination System or state waste discharge permit.

(18) "Excess capacity" means water pollution control facilities capability beyond what is needed for the existing residential population to meet the water quality based effluent limitations in the recipient's National Pollution Discharge Elimination System or state waste discharge permit.

(19) "Extended grant payments" means cash disbursements for eligible project costs made under a multiyear centennial grant agreement according to conditions established in RCW 70.146.075 and funded through legislative appropriations. Extended grant payments do not follow the normal process of reimbursement for actual costs incurred.

(20) "Facilities plan" means an engineering report that includes all the elements required by the National Environmental Policy Act, other federal statutes, and planning requirements under chapter 173-240 WAC, Submission of plans and reports for construction of wastewater facilities.

(21) "Facilities" - see "water pollution control facilities."

(22) "Force account" means loan or grant project work performed using labor, materials, or equipment of a public body.

(23) "Funding cycle" means the annual cycle of activities related to allocating funds for a single fiscal year.

(24) "Funding cut-off line" means the position on a final offer list ranked by priority below which financial assistance will not be offered from that fund, proviso, or funding category.

(25) "Funding list" - see "offer list."

(26) "Grant agreement" means a contractual arrangement between a public body and the department that includes an approved scope of work, total project cost, set grant percentage, eligible costs, budget, and a schedule for project completion (in addition to other requirements).

(27) "Immediate corrective action" means that the director of the department or the director's designee has determined that the project must proceed to correct the problem in a timely manner before funds are available during the next regular funding cycle. This usually would involve a "public health emergency" or an "environmental emergency."

(28) "Indirect cost" means costs that benefit more than one activity of the recipient and that may not be directly assigned to a particular project objective.

(29) "Infiltration and inflow" means water, other than wastewater, that enters a sewer system.

(30) "Infiltration and inflow correction" means the cost-effective alternative or alternatives identified in an approved facilities plan or engineering report for eliminating or reducing the infiltration and inflow from an existing sewer system.

(31) "In-kind contributions" means the value of noncash contributions provided by a public body or any other approved parties.

(32) "Interlocal costs" means the cost of goods or services provided to a project under the terms of an interlocal agreement by a public body eligible to apply for centennial funds. These costs may be considered as part of a cash match if they are eligible for funding under the grant agreement.

(33) "Loan agreement" means a contractual arrangement between a public body and the department that involves a disbursement of funds that must be repaid. The agreement includes an approved scope of work, total project cost, loan terms (including interest rates) and a repayment schedule.

(34) "Loan default" means failure to make a loan repayment within sixty days after the payment was due.

(35) "Local prioritization process" means a process to prioritize projects locally as specifically described in WAC 173-95A-050.

(36) "Match" means the portion of the eligible project costs not covered by a grant, including actual cash outlays, and noncash (in-kind) contributions.

(37) "Maximum eligible costs" means the ceiling on the portion of the costs of a project that are eligible.

(38) "Nonpoint source water pollution" means pollution that enters any waters from widespread water- or land-based activities. Nonpoint source water pollution includes, but is not limited to, atmospheric deposition; surface water runoff from agricultural lands, urban areas, and forest lands; subsurface or underground sources; and discharges from boats or other marine vessels.

(39) "Offer list" means a list of projects prioritized for receiving financial assistance from the centennial program.

(40) "Previously funded objective" means a project or project element intended to address the same need as a project or project element that has been previously funded by a loan or grant from a funding program administered by the department.

(41) "Project" means water pollution control facilities or activities for which a loan or grant is awarded by the department.

(42) "Public body" means the state of Washington or any agency, county, city or town, conservation district, other political subdivision, municipal corporation, quasi-municipal corporation, and those Indian tribes now or hereafter recognized by the federal government.

(43) "Public health emergency" means a situation in which illness or exposure known to cause illness is occurring or is imminent (as determined by the Washington state department of health).

(44) "Recipient" means a public body that applied for funding, has been offered funding, and has signed a funding agreement with the department.

(45) "Scope of work" means a detailed description of a project, including measurable objectives useful for determining successful completion. The scope of work is negotiated between the department and the loan or grant recipient.

(46) "Severe public health hazard" means a situation in which the potential for illness exists, but illness is not occurring or imminent (as determined by the Washington state department of health).

(47) "Sewer" means a pipe and related pump stations located on public property, or on public rights of way and easements, that conveys wastewater from individual buildings or groups of buildings to a treatment plant.

(48) "Side sewer" means a sanitary sewer service extension from the point five feet outside the building foundation to the publicly owned collection sewer.

(49) "Small flows" means flows from commercial, industrial, or institutional sources that enter a sanitary sewer system.

(50) "Step process" means a systematic process that facilities projects must follow to be eligible for loans or grants.

(51) "Total eligible project cost" means the sum of all costs associated with a water quality project that have been determined to be eligible for loan or grant funding.

(52) "Total project cost" means the sum of all eligible and ineligible costs associated with a water quality project.

(53) "Water pollution control activities" or "activities" means actions taken by a public body for the following purposes:

(a) To prevent or mitigate pollution of underground water;

(b) To control nonpoint sources of water pollution;

(c) To restore the water quality of freshwater lakes; and

(d) To maintain or improve water quality through the use of water pollution control facilities or other means.

(54) "Water pollution control facilities" or "facilities" means any facilities or systems for the control, collection, storage, treatment, disposal, or recycling of wastewater, including, but not limited to, sanitary sewage, storm water, residential, commercial, industrial, and agricultural wastes, which are causing water quality degradation due to concentrations of conventional, nonconventional, or toxic pollutants. Water pollution control facilities include all equipment, utilities, structures, real property, and interests in and improvements on real property necessary for or incidental to such purpose. Water pollution control facilities also include such facilities, equipment, and collection systems as are necessary to protect federally designated sole source aquifers.

(55) "Water pollution" means contamination or other alteration of the physical, chemical, or biological properties of any waters of the state, including change in temperature, taste, color, turbidity, or odor of the waters; or any discharge of a liquid, gas, solid, radioactive substance, or other substance into any waters of the state that creates a nuisance or renders such waters harmful, detrimental, or injurious to the public, to beneficial uses, or to livestock, wild animals, birds, fish, or other aquatic life.

(56) "Water resource inventory area" or "WRIA" means one of sixty-two watersheds in the state of Washington, each composed of the drainage areas of a stream or streams, as established in chapter 173-500 WAC as it existed on January 1, 1997.

[Statutory Authority: Chapter 70.146 RCW. 01-01-042 (Order 00-10), § 173-95A-020, filed 12/8/00, effective 1/8/01. Statutory Authority: RCW 70.146.070 and 36.70A.040. 97-24-096 (Order 97-31), § 173-95A-020, filed 12/3/97, effective 1/3/98.]

WAC 173-95A-030 How and under what conditions, can money from the centennial fund be used? (1) Uses of the money. The centennial fund may be used for the following purposes:

(a) To make loans and grants to applicants in order to finance the planning, design, or construction of water pollution control facilities; and

(b) To make loans and grants to applicants for the implementation of nonpoint source pollution control management programs subject to the requirements of chapter 70.146 RCW. Nonpoint source pollution control management programs include planning and implementing elements of the nonpoint source pollution assessment and management program.

(2) Eligibility to apply for funding. Eligible applicants and funding recipients under the centennial fund are public bodies, including the state of Washington or any agency, county, city or town, conservation district, other political subdivision, municipal corporation, quasi-municipal corporation, and those Indian tribes now or hereafter recognized by the federal government.

(3) Program integration. While maintaining the integrity of individual funding programs, the department will combine the management of the centennial program with certain compatible funding programs, including, but not limited to, the Washington state water pollution control revolving fund, and the Clean Water Act, Section 319 nonpoint source fund. The combined management will include combined funding cycles, combined program guidelines, and combined funding offer lists. Applicants will not be asked to apply for funds from a specific funding source, only whether they are applying for loan or grant funding for their projects. After developing a prioritized list of projects proposed for funding (based on review of applications), the department will decide which funding source best meets the needs of each individual project.

(4) Unless demand for funding for activities projects is limited, a maximum of two-thirds of the available funds for competitive projects for any fiscal year will be made available for projects related to water pollution control facilities.

(5) Normally, the department will fund loan projects or the loan portion of loan and grant projects from the Washington state water pollution control revolving fund whenever the project is eligible for state water pollution control revolving loan fund funding and the funding is available.

(6) Funding for activities projects:

(a) Activities grants made under the centennial program must be matched with any combination of cash or in-kind that totals twenty-five percent of the total eligible project cost.

(b) Grants for activities projects made under the centennial program are subject to ceiling amounts of:

(i) Five hundred thousand dollars if the match for the grant is entirely in the form of cash; or

(ii) Two hundred fifty thousand dollars if any part of the match is in the form of in-kind goods and services.

(c) Loans for activities projects made under the centennial program are subject to ceiling amounts of five hundred thousand dollars and no match is required.

(7) Funding for facilities projects:

(a) Applicants seeking funding for facilities projects may only apply for loans, but may specify on their application that they would like their project to be analyzed for financial hardship consideration. Some grant funding may be available each funding cycle for a limited number of facilities projects that qualify for financial hardship consideration.

(b) Ceiling amounts for loans under the centennial program: Loans for facilities projects are limited to half the total eligible cost of the project, or five million dollars, whichever is less: Provided, That this amount does not exceed one-third of the available funds for competitive projects for a single funding cycle.

(c) No match is required for loans made under the centennial program.

(d) Ceiling amounts for grants for facilities construction projects made to offset hardship under the centennial program: When a hardship analysis by the department shows that an applicant requesting funding for a facilities construction or "step three" project is eligible for grants, facilities construction grants made under the centennial program are subject to ceiling amounts of half the total eligible cost of the project plus an unemployment differential, as described in subsection (8)(c)(ii) of this section, or five million dollars, whichever is less: Provided, That this amount does not exceed one-third of the available funds for competitive projects for that fiscal year. These ceiling amounts are the maximum that can be provided in the form of grant funds for the life of the project as specified in a facilities plan approved by the department, except as provided for in (h) of this subsection.

(e) Ceiling amounts for grants for facilities projects consisting of combined design and construction: When a hardship analysis by the department shows that a recipient initiating a facilities design and construction or "step four" project, as provided for in WAC 173-95A-080 (2)(d), is eligible for grants, facilities construction grants made under the centennial program are subject to ceiling amounts of half the total eligible cost for the construction portion of the project. The total project cost under step four may not exceed one million dollars. If the total project cost for a step four project exceeds

one million dollars, no portion of the project may be funded with centennial loan or grant funds.

(f) Facilities grants to meet hardship made under the centennial program must be matched with sufficient cash to meet the total eligible project cost when combined with the grant amount. The applicant is encouraged to negotiate a funding package that provides funding for the total eligible project cost in the form of loans and grants from the department. Towards this goal, the applicant must accept a loan from the department for all or part of the remainder of the total eligible project cost. At a minimum, this loan must be for the remaining portion of the eligible cost of the project, or for an amount equal to the grant portion, whichever is less.

(g) A facilities construction project that is eligible for grant funding due to hardship consideration and is prioritized exactly at the funding cutoff point for facilities projects on the final offer list may receive only partial grant funding in a single funding cycle due to lack of available funds. In this case, if funds are available for the project and if the project can be shown to have proceeded during the intervening year according to the provisions of WAC 173-95A-100, the project will be offered the remaining amount as eligible under (b) of this subsection in the next funding cycle, subject to sufficient legislative appropriation.

(h) In exceptional cases where extreme levels of financial hardship exist, and the total eligible grant amount of a project has been determined by the department to be greater than five million dollars, applicants may be awarded financial assistance in the form of equal annual extended payment grants over a period of at least ten and no more than twenty years. Extended grant payments must be approved by the legislature and funding must be appropriated in the Washington state biennial capital budget for each biennium in which extended grant payments are made.

(8) Financial hardship assistance for facilities construction:

(a) Financial hardship assistance may be available to loan recipients for the existing residential need portion of a water pollution control facilities construction project if the project will cause a residential sewer user charge in excess of one and one-half percent of the median household income.

(i) Median household income for this purpose is based on the most recent available census data, updated yearly based on inflation rates as measured by the Federal Bureau of Labor Statistics and published as the Consumer Price Index.

(ii) If median household income data are not available for a community or if the community disputes the data used by the department, the department will allow a local government to conduct a scientific survey to determine the median household income.

(iii) In situations where a project is proposed for an area with demographics which may not be representative of the entire census designated place, the department may require the applicant to conduct a scientific survey to determine the median household income.

(iv) In rare cases where financial hardship cannot be established using residential user fees as a percent of median household income, financial hardship determinations will be made on a case-by-case basis.

(b) The need for hardship assistance is calculated on water pollution control facilities construction costs associated with existing residential need at the time an application for funding is received by the department. The analysis does not include costs for growth. For example, if an applicant applies for ten million dollars to finance facilities construction costs, where six million dollars is for existing residential need and the remaining four million dollars is for growth, the hardship analysis would be based on the six million dollars for existing residential need.

(c) If the department determines that financial hardship exists, it may make changes to the offer of financial assistance in an attempt to lower the residential user charges below the financial hardship level for the existing residential need. These changes may include:

(i) Structuring of the loan agreements to lengthen the repayment term to a maximum of twenty years; or

(ii) Lowering the interest rate; or

(iii) A combination of a lower interest rate and an extended term; and

(iv) If this is not sufficient, offering partial grant funding, not to exceed the ceiling amounts set in subsection (7) of this section and not to exceed fifty percent of the eligible costs plus an unemployment differential. The unemployment differential is determined by comparing the unemployment rate of the county in which the proposed project is located with the state-wide unemployment rate. In cases where the three-year average for the county is at least one full percentage point above the three-year average state-wide unemployment rate, the total three-year average unemployment rate for the county, rounded to the nearest whole percentage point, will be used as the unemployment differential. The three-year average will be for the period ending on December 31 of the most recent year for which a complete report is available from the department of employment security at the time the hardship analysis is conducted.

(d) If an applicant is requesting financial hardship assistance, it should submit a completed financial hardship analysis form with its application for financial assistance.

(9) Policies for establishing the terms of financial assistance. Interest rates for recipients will be based on the average market interest rate. The average market interest rate will be based on the daily market rate published in the Bond Buyer's Index for tax exempt municipal bonds for the period from sixty to thirty days before the annual centennial funding application cycle begins, using the daily market interest rate for that period. Loan terms and interest rates are as follows:

Repayment period interest rate.

Up to five years: Thirty percent of the average market rate.

More than five but no more than twenty years: Sixty percent of the average market rate.

The director of the department or the director's designee may approve lower interest rates for annual funding application cycle for the centennial fund and the Washington state pollution control revolving fund: Provided, That this may only be done if a financial analysis of the Washington state pollution control revolving fund demonstrates that lower interest rates for that year are not detrimental to the perpetuity of that fund.

[Statutory Authority: Chapter 70.146 RCW. 01-01-042 (Order 00-10), § 173-95A-030, filed 12/8/00, effective 1/8/01. Statutory Authority: RCW 70.146.070 and 36.70A.040. 97-24-096 (Order 97-31), § 173-95A-030, filed 12/3/97, effective 1/3/98.]

WAC 173-95A-040 Where can I obtain details about the application and review process for centennial funds? (1) Applicants must apply for financial assistance in order to be considered for funding and for their projects to be included on the funding offer list. Projects must be on the funding offer list in order to receive centennial financial assistance.

(a) A schedule of the annual funding cycle will be published no later than the last business day of November each year.

(b) The period during which applications are accepted each year will last a minimum of sixty days, and application forms and guidelines for that year will be made available at the beginning of that period.

(c) In the first thirty days of the period during which applications are accepted each year, the department will conduct at least one application workshop in each of the department's four regions.

(2) The application for funding will consist of two parts. Part one of the application will request information for identification, description, and other information about the project for tracking purposes, and part two of the application will request information about the water quality problem or problems being addressed by the project and the proposed solutions to the problems. In the application, applicants will be asked to fully describe the environmental and financial need for the project. Applications for centennial financial assistance for facilities projects must address problems such as public health emergencies, severe public health hazards, the need to provide secondary or advanced treatment, the need to improve and protect water quality, reduction of combined sewer overflows, and other environmental needs. Applications for centennial financial assistance for nonpoint projects must address the remedies and prevention of water quality degradation associated with nonpoint source water pollution and must not be inconsistent with needs identified in the department's nonpoint source pollution assessment and management program.

(3) The application form, part two, will include five main question areas, each with subsidiary questions designed to elicit the information needed to evaluate the project. The maximum points awarded for these question areas equal ninety percent of the total possible score with a maximum of ten percent coming from local prioritization. The local prioritization process is described in detail in WAC 173-95A-050. The five main question areas and their associated maximum point percentages are:

(a) "What is the overall water quality problem and how will the problem be solved or addressed by the project?" This question is intended for general background purposes and to give evaluators an overview of the proposed project; no points are assigned.

(b) "What are the specific public health and water quality impairments caused by the problem and what are the pollution prevention aspects?" This question area is worth a maximum of thirty-four percent of the total score.

(c) "How will your proposed project address the water quality problem, and what are your measures of success?" This question area is worth a maximum of thirty-four percent of the total score.

(d) "What are some of the local initiatives you have taken that will help make your project a success?" This question area is worth a maximum of twelve percent of the total score.

(e) "Are there any state of Washington or federal mandates that this proposed project addresses?" This question area is worth a maximum of ten percent of the total score.

(4) The department will evaluate the proposed projects based on the information contained in the applications.

(a) Projects will be ranked according to potential water quality benefit and protection of public health.

(b) Projects which have the highest environmental and public health need will be given priority for financial assistance under the centennial program.

(c) Because funds must be used in a timely manner, readiness to proceed is also used in establishing the priority of projects.

(d) Other factors, including funding provisions in chapter 70.146 RCW, provisos identified in the department's biennial capital budget, relationship to the department's published plans, and relationship to published plans created by other federal and state agencies will be included in the priority evaluation.

(e) The department will request other agencies, including, but not limited to, the Washington state conservation commission, the Puget Sound action team, and the Washington state department of health, to provide evaluation assistance as needed.

(f) The department will coordinate maximum funding amounts and other issues with other state and federal funding agencies when possible.

(5) The total score that each proposed project receives based on the application form, part two, will be added to the local prioritization score (see WAC 173-95A-050 for more information on the local prioritization process) to develop the final score for the proposed project.

(6) The department will prepare a draft funding offer list each year after evaluating all applications. The draft funding offer list will list projects in rank order starting with the project receiving the most points in its final score. This will also generally be the order that projects may be offered financial assistance. After issuing the draft funding offer list, the department will allow a minimum of thirty days for public review and comment on the draft funding offer list. No later than fifteen days before the end of the public review and comment period the department will conduct at least one workshop to explain the draft funding offer list, answer questions about the draft funding offer list and the evaluation process, and provide details on the public comment process.

(7) The final funding offer list will be issued no later than sixty days after the end of the public review and comment period. The final funding offer list will reflect any changes made as a result of public comments or other information received during the public review and comment period, and will include a responsiveness summary. The final funding

offer list will generally list projects in the order that projects may be offered financial assistance.

(8) Emergency loan funding:

(a) Emergency loan funding may be available on a case-by-case basis to respond to a public health emergency (as designated by the Washington state department of health) or an environmental emergency (as designated by the department) where:

(i) The public body requesting emergency funding immediately communicates directly with the appropriate regional office of the department; and

(ii) There is a demonstrated need for immediate corrective action; and

(iii) The emergency is not based on a preexisting condition.

(b) If the department agrees that an emergency request should be funded, department staff will attempt to identify funding for the project.

(c) No grant funds are available for emergency projects.

(d) If the emergency project is funded, the applicant must follow all other funding guidelines.

(e) Projects funded as emergencies should start immediately and be completed quickly.

[Statutory Authority: Chapter 70.146 RCW. 01-01-042 (Order 00-10), § 173-95A-040, filed 12/8/00, effective 1/8/01. Statutory Authority: RCW 70.146.070 and 36.70A.040. 97-24-096 (Order 97-31), § 173-95A-040, filed 12/3/97, effective 1/3/98.]

WAC 173-95A-050 How can a local area have a role in determining funding priorities? (1) Applicants may receive rating points based upon locally derived priorities. A maximum number of local prioritization points equal to ten percent of the total evaluation points available to a project may be added to the project evaluation points assigned by the department. These points are awarded to recognize the fact that local agencies and other groups may have water quality priorities that differ from the state-wide water quality priorities. The department does not require that any particular criteria be used in determining local priorities, but recommends that the local group be familiar with the water quality criteria the department uses as well as any legislative mandates for funding consideration. Local prioritization is elective and applicants do not have to engage in or complete this process to be eligible for funding consideration. However, projects will not be awarded local prioritization points if the process described here is not followed.

(2) The area used for the local prioritization process must be one entire water resource inventory area.

(3) Each local prioritization process must address all applications for water quality funding made to the department for projects located in that water resource inventory area during the annual funding cycle for that fiscal year.

(4) Priorities must be sent to the department in a written document showing a numeric priority ranking for all eligible projects in a water resource inventory area. It must be signed by the representative of the lead agency of a local planning group (if a local planning group is used) or, if an ad hoc group is used, by the representatives of each of the required organizations. Signatures indicate that the represented group does not object to the specific priority ranking.

(5) In each water resource inventory area one group must complete the local prioritization effort. The department will not accept local priorities from more than one source in each water resource inventory area. The group must be one of the two types of groups described here:

(a) A local watershed planning group organized under RCW 90.82.060 (Watershed Planning Act). This group may be used only if it includes at least three of the required groups described in this section, and if this group is used, they must inform each of the other required groups of their priorities; or

(b) An ad hoc group consisting of a representative of all the required groups.

(6) The required groups are:

(a) The incorporated city, town, or municipal corporation with the largest population within the water resource inventory area; and

(b) All counties with jurisdictional responsibility for at least twenty-five percent of the area within the water resource inventory area; and

(c) The Washington state conservation district with the largest service area within the water resource inventory area; and

(d) The special purpose district providing wastewater services with the largest population within the water resource inventory area (districts that might meet this description include, but are not limited to, sewer districts, water and sewer districts, and public utility districts); and

(e) All federally recognized tribes having reservations or fishing rights within the water resource inventory area.

(7) In cases where a required signatory to the ad hoc group process refuses to become involved with the process, does not respond to the request to become involved, or agrees to become involved but does not do so, the ad hoc group may provide the department with proof that the group was asked to participate. This proof must be submitted with the signed list of priorities by the deadline for submitting that list. Where this proof is provided, the lack of the signature will not stop the department from awarding local priority points. Proof should consist of copies of registered mail asking the required group to become involved.

(8) The list of local priorities, with signatures, is due to the department no later that forty-five days after the end of the application period each fiscal year.

[Statutory Authority: Chapter 70.146 RCW. 01-01-042 (Order 00-10), § 173-95A-050, filed 12/8/00, effective 1/8/01. Statutory Authority: RCW 70.146.070 and 36.70A.040. 97-24-096 (Order 97-31), § 173-95A-050, filed 12/3/97, effective 1/3/98.]

WAC 173-95A-060 What are the limitations on the use of funds? (1) The centennial fund may be used to provide financial assistance to applicants for the construction of water pollution control facilities and for water pollution control activities.

(2) Loan and grant offers identified on the final offer list will be effective for up to one year from the date of the final offer list. All loan and grant offers that do not result in a signed agreement within the effective offer period are automatically terminated.

(3) Limitations on commercial, industrial, and institutional flows:

(a) Flows from individual commercial, industrial, or institutional sources, are considered small when they are less than five percent of the total existing needs, as identified by the department's engineers. Collectively, flows from all individual commercial, industrial, or institutional sources are considered small when they are less than thirty percent of the total existing needs, as identified by the department's engineers. The portion of a project designed to serve the needs of commercial, industrial, and institutional customers may be funded using loans only, regardless of the level of financial capability in the jurisdiction applying for funding, where the department has determined that the flows from commercial, industrial, and institutional customers are "small."

(b) That portion of a project designed to serve the needs of local public primary and secondary schools may be grant eligible in cases where the residential portion of a project has been determined to be eligible for partial grant funding due to the level of financial capability in the public body applying for funding, under the provisions of WAC 173-95A-030(8).

(4) Projects proposed by Washington state agencies will not be funded; except that activities projects undertaken by state institutions of higher education are eligible to apply for funding when the activities are not part of the school's statutory responsibilities.

(5) Ineligible projects or project elements. Certain projects or project elements, including, but not limited to, the following, are not eligible for centennial assistance:

(a) Projects related to acts of nature that alter the natural environment, thereby causing water quality problems;

(b) Cost-plus-a-percentage-of-cost contracts (also known as multiplier contracts), time and materials contracts, and percent-of-construction contracts in facilities projects;

(c) Fines and penalties due to violations of or failure to comply with federal, state, or local laws;

(d) Projects or project elements intended solely for flood control;

(e) Interest on bonds, interim financing, and associated costs to finance projects;

(f) Landscaping for aesthetic reasons;

(g) Legal expenses other than those associated with development of local ordinances for water quality protection and improvement, or with use of a bond counsel in developing a loan agreement;

(h) Lobbying or expenses associated with lobbying;

(i) Reclamation of abandoned mines;

(j) Monitoring equipment used by an industry for sampling and analysis of industrial discharges from municipal water pollution control facilities;

(k) Office equipment;

(l) Operating expenses of local government, such as the salaries and expenses of a mayor, city council member, city attorney, etc.;

(m) Routine or ongoing operation and maintenance costs;

(n) Overtime differential paid to employees of local government to complete administrative or force account work;

(o) Permit fees;

(p) Personal injury compensation or damages arising out of the project, whether determined by adjudication, arbitration, negotiation, or other means;

(q) Preparation of loan or grant applications;

(r) Costs associated with commercial, institutional or industrial pretreatment

(s) Professional dues;

(t) Projects or project elements solely addressing water quantity or other water resource issues;

(u) Refinance of existing debt;

(v) Replacement parts, other than those for an initial set of spare parts for equipment that is critical for a facility to operate in compliance with discharge permit requirements;

(w) Rework costs associated with any project;

(x) Projects or project elements solely addressing solid or hazardous waste;

(y) Training staff to develop skills not identified in the loan or grant agreement;

(z) Vehicle purchase except for vehicles intended for the transportation of liquid or dewatered sludge or septage;

(aa) Water pollution control activities or facilities or portions of those facilities that are primarily intended to control, transport, treat, dispose, or otherwise manage commercial, institutional or industrial wastewater or other water pollution control needs from those sites.

(6) Loan-eligible projects or project elements. Certain projects or project elements, including, but not limited to, the following, are ineligible for centennial grant assistance, but may be eligible for centennial loan assistance:

(a) Implementation of best management practices on private property, with certain narrow exceptions listed in subsection (8) of this section;

(b) Comprehensive sewer planning, including wastewater elements of capital facilities planning under the Growth Management Act;

(c) Comprehensive storm water planning;

(d) Construction of water pollution control facilities with reserve capacities to meet up to one hundred ten percent of existing residential needs;

(e) Land acquisition as an integral part of the treatment process (e.g., land application) or for prevention of water pollution;

(f) Land acquisition for siting of water pollution control facilities, sewer rights of way, and easements, and associated costs;

(g) Land acquisition for wetland habitat preservation;

(h) Local loan fund establishment for water pollution control;

(i) New sewer systems to eliminate failing or failed on-site septic systems;

(j) Design (plans and specifications) for water pollution control facilities (including storm water facilities);

(k) Facilities plans for water pollution control facilities (including storm water facilities);

(l) Previously funded objectives;

(m) Residential and small commercial on-site septic system rehabilitation and replacement;

(n) Sewer laterals or individual pump stations or other appurtenances on private residential property;

(o) Value engineering for water pollution control facilities (including storm water facilities).

(7) Projects or project elements eligible only for loans except in hardship situations. Certain projects or project ele-

ments, including, but not limited to, the following, may be eligible or partly eligible for centennial grant assistance when hardship has been determined by the department, and eligible for a centennial loan when hardship has not been demonstrated:

(a) Construction of combined sewer overflow abatement;

(b) Construction of facilities for the control, storage, treatment, disposal, or recycling of domestic wastewater to meet existing need;

(c) Sewers and side sewer laterals on public property for infiltration and inflow correction projects;

(d) Costs associated with transferring ownership of a small wastewater system to a public body;

(e) Storm water quality control, treatment, installation, or rehabilitation necessary to protect surface and ground water;

(f) An initial set of spare parts for equipment that is critical for a facility to operate in compliance with discharge permit requirements;

(g) Sewer to replace existing water pollution control facilities.

(8) Loan or grant eligible projects or project elements. Certain projects or project elements, including, but not limited to, the following, may be eligible or partly eligible for centennial loan or grant assistance:

(a) Aquatic plant control when it has been established that water quality degradation is due to the presence of aquatic plants, and sources of pollution have been addressed sufficiently to assure that pollution being remediated does not recur;

(b) Implementation of best management practices on private property, where the practice consists of demonstration of new, innovative or alternative technology not yet demonstrated in the Washington state department of ecology region in which they are proposed, and where a public easement is given by the landowner;

(c) Implementation of best management practices in the riparian zone on private property consisting of revegetation or fence construction and where a public easement is given by the landowner;

(d) Implementation of best management practices on public property;

(e) Computer equipment specific to funded project and identified in a funding agreement;

(f) Annual meeting or conference registration fees where attendee is making a formal presentation related to the project;

(g) Watershed plan development and implementation;

(h) Diagnostic studies to assess current water quality;

(i) Water quality education and stewardship programs;

(j) Environmental checklists, assessments, and impact statements necessary to satisfy requirements for the State Environmental Policy Act (SEPA) and the National Environmental Policy Act (NEPA);

(k) Equipment and/or tools for activities projects as identified in a funding agreement;

(l) Farm planning;

(m) Ground water protection activities and programs;

(n) Riparian and wetlands habitat restoration and enhancement, including revegetation;

(o) Indirect costs at a rate of up to twenty-five percent, or as defined in the most current edition of *Administrative Requirements for Ecology Grants and Loans*;

(p) Lake implementation projects and water quality planning activities on lakes with public access;

(q) Landscaping for erosion control directly related to a project, or site-specific landscaping in order to mitigate site conditions and comply with requirements in the State Environmental Policy Act or the National Environmental Policy Act;

(r) Monitoring effectiveness;

(s) Monitoring equipment used in a funded project for water quality assessment;

(t) Volunteer monitoring programs;

(u) Monitoring water quality;

(v) Costs associated with the establishment of an area-wide program for ongoing maintenance of on-site wastewater systems;

(w) On-site wastewater system surveys;

(x) Development and dissemination of model ordinances to prevent or reduce pollution from nonpoint sources;

(y) Public participation and public awareness directly related to the project;

(z) Light refreshments for advisory group meetings when specified in loan or grant agreement;

(aa) Sales tax;

(bb) Sediment reduction practices and projects;

(cc) Stream restoration projects or other bioengineering for water quality purposes;

(dd) Total maximum daily load study development and implementation;

(ee) Training recipient staff to develop skills specific and necessary to the funded project and where the training is identified in the loan or grant agreement;

(ff) User charge system development; wastewater or storm water utility rate studies;

(gg) Comprehensive basin, watershed, and area-wide water quality planning;

(hh) Implementation of eligible projects identified in watershed plans;

(ii) Wellhead protection.

[Statutory Authority: Chapter 70.146 RCW. 01-01-042 (Order 00-10), § 173-95A-060, filed 12/8/00, effective 1/8/01.]

WAC 173-95A-070 How does the Growth Management Act impact the use of funds? (1) A local government not in compliance with the Growth Management Act may not receive loans or grants from the department, except that, in limited circumstances, a local government that is not in compliance with the Growth Management Act may receive loans or grants from the department where necessary to address a public health need or substantial environmental degradation.

(2) For the purposes of this chapter, "compliance with the Growth Management Act" means that:

(a) A county, city, or town that is required to or chooses to plan under RCW 36.70A.040 has adopted a comprehensive plan and development regulations in conformance with the requirements of chapter 36.70A RCW, after it is required

that the comprehensive plan and development regulations be adopted; and

(b) The county, city, or town has not been found out of compliance by a growth management hearings board; or

(c) A growth management hearings board has found a county, city, or town in compliance with the requirements of chapter 36.70A RCW, after previously finding the county, city, or town was not in compliance.

(3) For the purposes of this chapter, a public health need related to a loan or grant must be documented by a letter signed by the secretary of the Washington state department of health or his or her designee and addressed to the public official who signed the loan or grant application. "Public health need" means a situation where:

(a) There is a documented potential for:

(i) Contaminating a source of drinking water; or

(ii) Failure of existing wastewater system or systems resulting in contamination being present on the surface of the ground in such quantities and locations as to create a potential for public contact; or

(iii) Contamination of a commercial or recreational shellfish bed as to create a critical public health risk associated with consumption of the shellfish; or

(iv) Contamination of surface water so as to create a critical public health risk associated with recreational use; and

(b) The problem generally involves a serviceable area including, but not limited to, a subdivision, town, city, or county, or an area serviced by on-site sewage disposal systems; and

(c) The problem cannot be corrected through more efficient operation and maintenance of an existing wastewater disposal system or systems.

(4) For the purposes of this chapter, a substantial environmental degradation related to a loan or grant must be documented by a letter signed by the director of the department or his or her designee and addressed to the public official who signed the loan or grant application. "Substantial environmental degradation" means that:

(a) There is a situation causing real, documented, critical environmental contamination that:

(i) Contributes to violations of the state's water quality standards; or

(ii) Interferes with beneficial uses of the waters of the state; and

(b) The problem generally involves a serviceable area including, but not limited to, a subdivision, town, city, or county, or an area serviced by on-site sewage disposal systems; and

(c) The problem cannot be corrected through more efficient operation and maintenance of an existing wastewater disposal system or systems.

(5) A county, city, or town that has been offered a loan or grant for a water pollution control facilities project may not receive loan or grant funds while the county, city, or town is not in compliance with the Growth Management Act unless:

(a) Documentation showing that a public health need has been provided by the Washington state department of health; or documentation showing that a substantial environmental degradation exists has been provided by the department; and

(b) The county, city, or town has provided documentation to the department that actions or measures are being implemented to address the public health need or substantial environmental degradation; and

(c) The department has determined that the project is designed to address only the public health need or substantial environmental degradation described in the documentation, and does not address unrelated needs including, but not limited to, provisions for additional growth.

[Statutory Authority: Chapter 70.146 RCW. 01-01-042 (Order 00-10), § 173-95A-070, filed 12/8/00, effective 1/8/01.]

WAC 173-95A-080 What is the "step process" for planning facilities and activities projects? (1) The step process: The "step process" is a systematic method for proceeding with projects. The step process begins with site-specific planning, and continues through design to construction or implementation. It is required for facilities construction projects and, in a modified form, is required for some kinds of activities projects and recommended for all kinds of activities projects.

(2) The step process for facilities: To be eligible for a centennial loan or grant, facilities projects must follow the step process.

(a) Before a public body with a facilities project is eligible to apply for funds, all previous steps must be approved by the department in order to help ensure that funds are spent in a timely matter on projects proceeding towards a successful outcome. Funding for site-specific facilities planning (step one) or design (step two) does not guarantee the awarding of future loans or grants for construction (step three). The department will not sign a loan or grant agreement until all previous steps have been completed and approved by the department.

(b) Planning (step one): Step one involves the preparation of a site-specific facilities plan that identifies and prioritizes the cost-effective alternatives for addressing a water pollution control problem with or without state and federal funding. There is no prerequisite for planning. If there is an existing engineering report, prepared with or without department funding, it must be upgraded for centennial loan or grant eligibility if it does not meet the definition of a facilities plan.

(c) Design (step two): Step two includes the preparation of plans and specifications for use in construction. These must be based on the preferred cost-effective alternative identified in the facilities plan. Facilities plans must be approved by the department before an application for design can be considered for funding, regardless of whether or not the facilities planning documents were funded by a department grant or loan.

(i) Due to specific loan and grant review criteria, facilities plans approved by the department for purposes other than securing a loan or grant will not be accepted for design purposes.

(ii) Facilities plans approved by the department more than two years prior to the close of the loan and grant application period must contain evidence of recent review by the department to ensure the document reflects current conditions.

(d) Construction (step three): Step three includes the actual building of facilities based on the approved design. Design must be approved by the department before an application for construction can be considered for funding.

(e) Design and construction (step four): In some cases, design and construction may be combined into one loan award, which is called step four. Different ceiling amounts apply to step four projects, as provided for in WAC 173-95A-030. Applications for step four loans will be accepted and considered for funding if it can be demonstrated that step two (design) can be completed and approved by the department within one year of the date the final offer list is made public.

(3) Prerequisite documents for facilities projects: Draft documents must be sent to the department's engineers at least sixty days prior to end of application cycle for approval by end of application cycle.

(4) Step deviations. A deviation from the step process may be allowed only in a situation where the Washington state department of health has declared a public health emergency and the proposed project would remedy this situation.

(a) In this situation, the department will accept applications for funding consideration that do not follow the step process. However, no loan or grant agreement will be signed until all previous steps have been completed and approved by the department. This deviation from the step process will only allow an application to be considered for funding - it does not guarantee that funding will be offered. It does not allow a loan to be awarded until all step requirements have been satisfied.

(b) If a deviation is approved, the applicant may deviate by only one step. For instance, the department could accept an application for design if planning was not completed and approved, or an application for construction if design was not completed and approved. However, the department may not accept an application for construction if planning was not completed and approved, which would be a two step deviation.

(5) The step process for activities.

(a) Two kinds of activities projects must follow the step process:

(i) Best management practices; and

(ii) Lake projects.

(b) In other cases, the step process for activities is not required, however the department encourages all applicants to plan activities.

(c) The steps involved in the step process for activities are:

(i) Planning (step one) involves the identification of problems and evaluation of cost-effective alternatives, based on environmental and economic considerations, for correcting and preventing water quality problems. Specific activities may include planning for watershed management, ground water management areas, lake restoration, and water quality assessment and other related activities. If the planning document is one that must be approved by a government agency or public body other than the applicant, it must be signed before the applicant is eligible to apply for step two funding.

(ii) Implementation (step two) includes the actual implementation of the project based on the planning document. Where the project includes any type of construction, a design element may be included in step two.

[Statutory Authority: Chapter 70.146 RCW. 01-01-042 (Order 00-10), § 173-95A-080, filed 12/8/00, effective 1/8/01.]

WAC 173-95A-090 What other laws, regulations or requirements must recipients comply with? (1) Recipients shall fully comply with all federal, state, and local laws and regulations related to procurement, discrimination, labor, job safety, and drug-free environments. The recipient shall also comply with the state and federal minority-and-women-owned businesses regulations. Applications must not be inconsistent with pertinent adopted water quality plans.

(2) If a loan or grant is provided for water pollution control facilities, recipients shall submit a declaration of construction of water pollution control facilities to the department within thirty days of project, phase, or segment completion.

(3) Recipients must maintain accounting records in accordance with "generally accepted government accounting standards." These standards are defined as, but not limited to, those contained in the United States General Accounting Office publication *"Standards for Audit of Governmental Organizations, Programs, Activities, and Functions."*

(4) Accounting irregularities may result in an immediate stoppage of payment until irregularities are resolved. The director of the department may require immediate repayment of misused loan or grant funds.

[Statutory Authority: Chapter 70.146 RCW. 01-01-042 (Order 00-10), § 173-95A-090, filed 12/8/00, effective 1/8/01.]

WAC 173-95A-100 How are grants and loans managed? (1) Timely use of funds: Projects funded with loans or grants from the centennial fund must be spent in a timely fashion so that funds are put to work for the water quality of the state as soon as possible. To accomplish this, certain time restrictions are placed on the use of funds as follows:

(a) Work on a project must be started within sixteen months of the publication date of the final offer list on which the project was proposed.

(i) Any expenditure of funds which is eligible for reimbursement under the terms of the loan or grant agreement constitutes starting the project.

(ii) No more than one time extension of no more than twelve months may be made when there are valid reasons for the extension and when the extension is included in the signed funding agreement with the department.

(iii) Valid reasons for a time extension allowing a start date more than sixteen months after the publication date of the final offer list are limited to:

(A) Schedules included in water quality permits, consent decrees, or enforcement orders; or

(B) The recipient and the department agree that there is a need to do work during an environmental window in a specific season of the year.

(iv) If the funding recipient has one of these valid reasons to wait longer than sixteen months to start the project, the reasons why it will take longer and the schedule the recip-

ient will follow must both be stated clearly in a signed loan or grant agreement.

(b) Work on a project must be completed within five years of the publication date of the final offer list on which the project was proposed or within a shorter time period if the shorter period is identified in the funding agreement for the project. When all work identified in the funding agreement scope of work is finished, the project is deemed to be completed. After the five-year time limit is reached, no further expenditures may be reimbursed unless an extension is made.

(i) No more than one time extension of no more than twelve months may be made when there are valid reasons for the extension; and

(A) The extension is requested no less than three months before the funding agreement is due to expire; and

(B) The department's water quality program manager agrees that the extension is for a valid reason.

(ii) Valid reasons for a time extension are limited to:

(A) Schedules included in water quality permits, consent decrees, or enforcement orders; or

(B) The recipient and the department agree that there is a need to do work during an environmental window in a specific season of the year.

(iii) If the funding recipient has one of these valid reasons to be allowed a time extension, the reasons why it will take longer and the schedule the recipient will follow must both be stated clearly in a signed amendment to the existing loan or grant agreement.

(c) In-kind goods and services may be used as match for activities grants subject to ceiling amount restrictions covered in WAC 173-95A-030 and subject to the most recent edition of *Administrative Requirements for Ecology Grants and Loans*.

(d) In-kind goods and services may be used as match for facilities grants only in the case of projects undertaken under the small town environmental program, or "STEP."

(2) Prior authorization to incur costs. In cases where a project has been identified on a final offer list, the applicant may make a written request to the water quality program manager, asking to begin incurring costs related to a loan or grant for which there is not yet a signed loan or grant agreement. If the department concurs with this request, the water quality program manager will send the applicant a letter authorizing the costs. The applicant incurs the costs at their own risk. When an agreement is signed, previously incurred costs that are not eligible under the terms of the agreement are the sole responsibility of the applicant.

(3) Appeals of loan and grant agreement decisions: The only decisions which may be appealed are written decisions by the department made during the effective loan or grant agreement period. Appeals must be filed in writing to the department within forty-five days from the date of the disputed decision. Following the final decision of a dispute, the department and the recipient shall proceed with the project in accordance with the decision rendered. Administrative or legal costs and other expenses incurred as part of an appeal will not be eligible for reimbursement.

(4) The department, or at the department's discretion another authorized auditor, may audit the loan or grant agreement and records.

(5) The administration of all loans and grants will be subject to all terms and conditions in a funding agreement signed by the department and by the recipient.

(6) Ongoing management of most aspects of loan and grant projects is subject to the most recent edition of *Administrative Requirements for Ecology Grants and Loans*, copies of which will be provided to all recipients.

[Statutory Authority: Chapter 70.146 RCW. 01-01-042 (Order 00-10), § 173-95A-100, filed 12/8/00, effective 1/8/01.]

WAC 173-95A-110 General provisions. (1) Other state and federal grant funding: Other grant funds provided by the state legislature, federal government, or from other sources will be managed in a manner consistent with the centennial rule.

(2) For all projects, the recipient must acknowledge department financial assistance in all reports, technical documents, publications, brochures, and other materials produced using funding from the loan or grant. All site-specific projects must have a sign of sufficient size to be seen from nearby roadways, acknowledging department financial assistance, and left in place throughout the life of the project. Department logos must be on all signs and documents. Logos will be provided as needed.

[Statutory Authority: Chapter 70.146 RCW. 01-01-042 (Order 00-10), § 173-95A-110, filed 12/8/00, effective 1/8/01.]

Chapter 173-98 WAC

USES AND LIMITATIONS OF THE WATER POLLUTION CONTROL REVOLVING FUND

WAC

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173-98-090	How are loans managed?
173-98-100	How do recipients comply with the state environmental review process?
173-98-110	What are the repayment options and schedules?
173-98-120	General provisions.

WAC 173-98-010 What is the purpose of this chapter? The purpose of this chapter is to set forth limitations on the allocation and uses of moneys administered by the department of ecology from a special fund within the state treasury known as the state water pollution control revolving fund (SRF), as authorized by chapter 90.50A RCW. This fund provides financial assistance to applicants throughout the state of Washington who need such assistance to meet high priority water quality management needs.

[Statutory Authority: RCW 43.21.080 and chapters 34.05 and 90.50A RCW. 98-24-036 (Order 98-10), § 173-98-010, filed 11/24/98, effective 12/25/98.

Statutory Authority: Chapter 90.50A RCW. 89-18-019 (Order 89-34), § 173-98-010, filed 8/29/89, effective 9/29/89.]

WAC 173-98-020 What are the definitions of key terms? Unless the context clearly requires otherwise, the definitions in this section apply throughout this chapter.

(1) "Act" means the Federal Water Pollution Control Act (33 U.S.C. 4661 et seq.).

(2) "Applicant" means a public body that has applied for funding.

(3) "Best management practices" means physical, structural, and/or managerial practices approved by the department or by another agency with regulatory oversight that, when used singularly or in combination, prevent or reduce pollutant discharges.

(4) "Concentrated animal feeding operation" means an animal livestock feeding operation that discharges animal waste to the waters of Washington state more frequently than the twenty-five year, twenty-four hour storm event; or if the operation is under a department administrative order, notice of violation, a National Pollution Discharge Elimination System permit; or the operation will be required to have a National Pollution Discharge Elimination System permit coverage in the near future; or the department or the U. S. Environmental Protection Agency determines the operation is considered to be polluting the waters of Washington state.

(5) "Commercial, industrial, and institutional flows" means the portion of the total flows to a facilities project that originate from commercial establishments, industrial facilities, or institutional sources such as schools, hospitals, and prisons.

(6) "Construction" means the erection, installation, expansion, or improvement of water pollution control facilities or activities.

(7) "Cost-effective alternative" means that alternative with the lowest present worth or equivalent annual value that achieves the requirements of the project while recognizing the environmental and other nonmonetary considerations.

(8) "Defeasance" means the setting aside in escrow or other special fund or account of sufficient investments and money dedicated to pay all principal of and interest on all or a portion of an obligation as it comes due.

(9) "Department" means the Washington state department of ecology.

(10) "Design" means the plans and specifications for water pollution control facilities or activities.

(11) "Director" means the director of the Washington state department of ecology or his or her authorized designee.

(12) "Easement," for the purposes of this rule, means a written agreement between a public body and an individual landowner, that allows the public body to have access to the property at any time to inspect, maintain, or repair activities or facilities installed with a loan or a grant, or to hold occasional public tours of the site for educational purposes.

(13) "The effective date of the loan agreement" means the date the loan agreement is signed by the department's water quality program manager.

(14) "Enforcement order" means an administrative order that is a document issued by the department under the authority of RCW 90.48.120 and that directs a public body to complete a specified course of action within an explicit period of time to achieve compliance with the provisions of chapter 90.48 RCW.

(15) "Engineering report" means a report that evaluates engineering and other alternatives that meet the requirements set forth in Chapter 173-240 WAC, Submission of plans and reports for construction of wastewater facilities.

(16) "EPA" means the United States Environmental Protection Agency.

(17) "Excess capacity" means water pollution control facilities capability beyond what is needed for the existing residential population to meet the water quality based effluent limitations in the recipient's National Pollution Discharge Elimination System or state waste discharge permit.

(18) "Existing residential need" means work required on the water quality based effluent limitations in the recipient's water pollution control facilities for the existing residential population in order to meet the recipient's National Pollution Discharge Elimination System or state waste discharge permit.

(19) "Facilities plan" means plans and studies necessary for treatment works to comply with enforceable requirements of the act and with state statutes. Facilities plans must include a systematic evaluation of alternatives that are feasible in light of the unique demographic, environmental or ecological, topographic, hydrologic and institutional characteristics of the area. Facilities plans must also demonstrate that the selected alternative is cost-effective.

(20) "Federal capitalization grant" means a federal grant awarded by EPA to the state as seed money to help establish the state water pollution control revolving fund.

(21) "Financial assistance" means each of the four types of assistance specified in WAC 173-98-030 (1)(b) through (f) and other assistance authorized by Title VI of the act and chapter 90.50A RCW.

(22) "Funding cycle" means the annual cycle of activities related to allocating funds for a single fiscal year.

(23) "Fund" means the state water pollution control revolving fund.

(24) "General obligation debt" means an obligation of the recipient secured by annual ad valorem taxes levied by the recipient and by the full faith, credit, and resources of the recipient.

(25) "Initiation of operation" means the actual date the water pollution control facilities initiates operation and the entity begins using the facilities for its intended purpose. This date may occur prior to final inspection and will be determined by the department after consultation with the recipient. This date may be the same or earlier than the date of project completion.

(26) "Infiltration and inflow" means water, other than wastewater, that enters a sewer system.

(27) "Infiltration and inflow correction" means the cost-effective alternative or alternatives identified in an approved facility plan for eliminating or reducing the infiltration and inflow from an existing sewer system.

(28) "Intended use plan (IUP)" means a plan identifying the intended uses by the department of the amount of funds available for financial assistance from the state water pollution control revolving fund (SRF) for that fiscal year as

described in section 606(c) of the act. The projects on the intended use plan will be ranked by environmental and financial need.

(29) "Loan agreement" means a legal contract between a recipient and the state, enforceable under state law, and specifying the terms and schedules under which assistance is provided.

(30) "Loan default" means failure to make a loan repayment within sixty days after the payment was due.

(31) "Local prioritization process" means a process to prioritize projects locally.

(32) "Nonpoint source water pollution" means pollution that enters any waters of the state from any dispersed water-based or land-use activities, including, but not limited to:

(a) Atmospheric deposition, surface water runoff from agricultural lands, urban areas, forest lands, subsurface or underground sources; and

(b) Discharges from boats or other marine vessels.

(33) "Plans and specifications" means the construction contract documents and supporting engineering documents prepared in sufficient detail to allow contractors to bid on and construct water pollution control facilities. "Plans and specifications" and "design" may be used interchangeably.

(34) "Project" means the scope of work for which financial assistance is issued.

(35) "Project completion" means the date the project is determined by the department as being complete.

(36) "Public body" means the state of Washington or any agency, county, city or town, other political subdivision, municipal corporation or quasi-municipal corporation, and those Indian tribes recognized as such by the federal government at the time the SRF loan agreement is signed.

(37) "Public health emergency" means a situation declared by the Washington state department of health in which illness or exposure known to cause illness is occurring or is imminent.

(38) "Recipient" means an applicant for financial assistance which has signed an SRF loan agreement.

(39) "Reserve account" means, for a loan that constitutes revenue-secured debt, the account of that name created in the loan fund to secure the payment of the principal and interest on the loan.

(40) "Revenue-secured debt" means an obligation of the recipient secured by a pledge of the revenue of a utility and one not of a general obligation of the recipient.

(41) "Scope of work" means a detailed description of a project, including measurable objectives useful for determining successful completion. The scope of work is negotiated between the department and the loan or grant recipient.

(42) "Senior lien obligations" means all revenue bonds and other obligations of the recipient outstanding on the date of execution of this agreement (or subsequently issued on a parity therewith, including refunding obligations) or issued after the date of execution of this agreement having a claim or lien on the gross revenue of the utility prior and superior to the claim or lien of the loan, subject only to maintenance and operation expense.

(43) "Severe public health hazard" means a situation declared by the state department of health and the department in which the potential for illness exists, even if the illness is not currently occurring or imminent. For the purposes of this chapter there must be contamination of drinking water or contamination must be present on the surface of the ground in such quantities and locations to create a potential for public contact. The problem must generally involve a serviceable area including, but not limited to, a subdivision, town, city, or county. Also, the problem must be one which cannot be corrected through more efficient operation and maintenance of the wastewater disposal system(s).

(44) "Sewer" means a pipe and related pump stations located on public property, or on public rights of way and easements, that conveys wastewater from individual buildings or groups of buildings to a treatment plant.

(45) "Side sewer" means a sanitary sewer service extension from the point five feet outside the building foundation to the publicly owned collection sewer.

(46) "Small flows" means flows from commercial, industrial, or institutional sources that enter a sanitary sewer system.

(47) "State water pollution control revolving fund (SRF)" means the water pollution control revolving fund established by RCW 90.50A.020.

(48) "Step process" means a systematic process that facility projects must follow to be eligible for loans or grants.

(49) "Total eligible project cost" means the sum of all costs associated with a water quality project that have been determined to be eligible for loan or grant funding.

(50) "Total project cost" means the sum of all eligible and ineligible costs associated with a water quality project.

(51) "Water pollution" means such contamination, or other alteration of the physical, chemical, or biological properties of any waters of the state, including, but not limited to, change in:

(a) Temperature;

(b) Taste;

(c) Color;

(d) Turbidity; or

(e) Odor.

It also means a discharge of any liquid, gaseous, solid, radioactive, or other substance into any waters of the state that will or is likely to create a nuisance or render those waters harmful, detrimental, or injurious to the public health, safety, or welfare, or injurious to domestic, commercial, industrial, agricultural, recreational, or other legitimate beneficial uses, or to livestock, wild animals, birds, fish, or other aquatic life.

(52) "Water pollution control activities" means actions taken by a public body to achieve the following purposes:

(a) To control nonpoint sources of water pollution;

(b) To develop and implement a comprehensive conservation and management plan for estuaries; and

(c) To maintain, improve, or protect water quality through the use of water pollution control facilities, management programs, or other means.

(53) "Water pollution control facilities" means any facilities or systems for the control, collection, storage, treatment, disposal, or recycling of wastewater. Wastewater includes, but is not limited to, sanitary sewage, storm water, combined sewer overflows, residential, commercial, industrial, and agricultural wastes, which are causing water quality degrada-

tion due to concentrations of conventional, nonconventional, or toxic pollutants. Water pollution control facilities include all equipment, utilities, structures, real property integral to the treatment process, and interests in and improvements on real property necessary for or incidental to such purpose. Water pollution control facilities also include facilities, equipment, and collection systems which are necessary to protect federally designated sole source aquifers.

(54) "Water resource inventory areas," sometimes referred to as "WRIAs," means one of sixty-two watersheds in the state of Washington, each composed of the drainage areas of a stream or streams, as established in chapter 173-500 WAC as it existed on January 1, 1997. All parts of the state of Washington are located in a single water resource inventory area.

[Statutory Authority: Chapter 90.50A RCW. 01-01-043 (Order 00-11), § 173-98-020, filed 12/8/00, effective 1/8/01. Statutory Authority: RCW 43.21.080 and chapters 34.05 and 90.50A RCW. 98-24-036 (Order 98-10), § 173-98-020, filed 11/24/98, effective 12/25/98. Statutory Authority: Chapter 90.50A RCW. 89-18-019 (Order 89-34), § 173-98-020, filed 8/29/89, effective 9/29/89.]

WAC 173-98-030 How, and under what conditions, can money from the state water pollution control revolving fund be used? (1) Uses of the money. The state water pollution control revolving fund (SRF) may be used for the following purposes:

(a) To accept and retain funds from capitalization grants provided by the federal government, state matching funds appropriated in accordance with chapter 90.50A RCW, payments of principal and interest, and any other funds earned or deposited;

(b) To make loans to applicants in order to finance the planning, design, and/or the construction of water pollution control facilities, make loans to applicants for the implementation of nonpoint source pollution control management programs (which includes planning and implementing elements of the nonpoint source pollution assessment and management program), and make loans to applicants for the development and implementation of a comprehensive estuary conservation and management plan, subject to the requirements of the act;

(c) To provide loans for up to twenty years reserve capacity for water pollution control facilities;

(d) To buy or refinance the debt obligations incurred by applicants after March 7, 1985, for the construction of water pollution control facilities. (March 7, 1985, was the date that the amendments adding Title VI to the act were first considered by Congress. Any refinancing agreements must be for construction initiated after that date according to federal and state law);

(e) To guarantee or purchase insurance for local obligations where such an action would improve credit market access or reduce interest rates;

(f) As a source of revenue or security for the payment of principal and interest on revenue or general obligation bonds issued by the state, if the proceeds of those bonds will be deposited in the fund; and

(g) To finance the reasonable costs incurred by the department in the administration of the account as authorized by the act and chapter 90.50A RCW.

(2) Policies for establishing the terms of financial assistance. Recipients' interest rates will be based on the average market interest rate. The average market interest rate will be based on the daily market rate published in the *Bond Buyer's Index* for tax exempt municipal bonds for the period from sixty to thirty days before the SRF annual funding application cycle begins, using the daily market interest rate for that period.

Loan terms and interest rates are as follows:

Repayment Period	Interest Rate
Up to five years:	Thirty percent of the average market rate.
More than 5 but no more than 20 years:	Sixty percent of the average market rate.

The director of the department of ecology or the director's designee may approve lower interest rates for the annual funding application cycle if a financial analysis of the fund demonstrates that lower interest rates for that year are not detrimental to the perpetuity of the fund.

(3) Financial hardship assistance for facilities construction.

(a) Financial hardship assistance may be available to loan recipients for the existing residential need portion of a water pollution control facilities construction project if the project will cause a residential sewer user charge in excess of one and one-half percent of the median household income.

(i) Median household income for this purpose is based on the most recent available census data, updated yearly based on inflation rates as measured by the Federal Bureau of Labor Statistics and published as the Consumer Price Index.

(ii) If median household income data are not available for a community or if the community disputes the data used by the department, the department will allow a local government to conduct a scientific survey to determine the median household income.

(iii) In situations where a project is proposed for an area with demographics which may not be representative of the entire census designated place, the department may require a scientific survey to determine the median household income.

(iv) In rare cases where financial hardship cannot be established using residential user fees as a percent of median household income financial hardship determinations will be made on a case-by-case basis.

(b) The need for hardship assistance is calculated on water pollution control facilities construction costs associated with existing residential need at the time an application for funding is received by the department. The analysis does not include costs for growth. For example, if an applicant applies for ten million dollars to finance facilities construction costs, where six million dollars is for existing residential need and the remaining four million dollars is for growth, the hardship analysis would be based on the six million dollars for existing residential need.

(c) If the department determines that financial hardship exists, it may make changes to the offer of financial assistance in an attempt to lower the residential user charges

below the financial hardship level for the existing residential need. These changes may include:

(i) Changing the structure of the loan agreements with terms to lengthen the repayment period to a maximum of twenty years, lowering the interest rate, or a combination of a lower interest rate and an extended term; and, if this is not sufficient,

(ii) Offering partial centennial grant funding as allowable under the provisions of chapter 173-95A WAC.

(d) If an applicant is requesting financial hardship assistance, it should submit a completed financial hardship analysis form with its application for financial assistance.

[Statutory Authority: Chapter 90.50A RCW. 01-01-043 (Order 00-11), § 173-98-030, filed 12/8/00, effective 1/8/01; 00-09-010 (Order 00-02), § 173-98-030, filed 4/7/00, effective 5/8/00. Statutory Authority: RCW 43.21.080 and chapters 34.05 and 90.50A RCW. 98-24-036 (Order 98-10), § 173-98-030, filed 11/24/98, effective 12/25/98. Statutory Authority: Chapter 90.50A RCW. 89-18-019 (Order 89-34), § 173-98-030, filed 8/29/89, effective 9/29/89.]

WAC 173-98-040 Where can I obtain more detail about the application, review, and issuance processes for funds from the state water pollution control revolving fund? (1) Applicants must apply for financial assistance in order to be considered for funding and for their projects to be included on the intended use plan. Projects must be on a current or past intended use plan in order to receive SRF loans.

(a) A schedule of the annual funding cycle will be published no later than the last business day of November each year, for the funding corresponding to the next state fiscal year.

(b) The period during which applications are accepted each year will last a minimum of sixty days, and application forms and guidelines for that year will be made available at the beginning of that period.

(c) In the first thirty days of the period during which applications are accepted each year, the department will conduct at least one application workshop in each of the department's four regions.

(d) When there is limited demand for funds from the current funding cycle, projects from any past intended use plan, starting with the most recent, may be funded in priority order, where:

(i) Cost overruns to a funded project are shown to be justifiable; or

(ii) Final cost reconciliation shows that higher costs are reasonable; or

(iii) The applicant received partial funding for the project and the change is shown on a current intended use plan.

(2) The application for funding will consist of two parts. Part one of the application will request information for identification, description, and other information about the project for tracking purposes, and part two of the application will request information about the water quality problem or problems being addressed by the project and the proposed solutions to the problems. In the application, applicants will be asked to fully describe the environmental and financial need for the project. Applications for SRF financial assistance for facilities projects must address problems such as public health emergencies, severe public health hazards, the need to provide secondary or advanced treatment, the need to improve and protect water quality, reduction of combined sewer overflows, and other environmental needs. Applications for SRF financial assistance for nonpoint projects must implement the remedies and prevention of water quality degradation associated with nonpoint source water pollution and must not be inconsistent with needs identified in the department's approved nonpoint source pollution management plan.

(3) The application form, part two, will include five main question areas, each with subsidiary questions designed to elicit the information needed to evaluate the project. The maximum points awarded for these question areas equal ninety percent of the total possible score with a maximum of ten percent coming from the local prioritization. The five main question areas and their associated maximum point percentages are:

(a) "What is the overall water quality problem and how will the problem be solved or addressed by the project?" This question is intended for general background purposes and to give evaluators an overview of the proposed project; no points are assigned.

(b) "What are the specific public health and water quality impairments caused by the problem and what are the pollution prevention aspects?" This question area is worth a maximum of thirty-four percent of the total score.

(c) "How will your proposed project address the water quality problem, and what are your measures of success?" This question area is worth a maximum of thirty-four percent of the total score.

(d) "What are some of the local initiatives you have taken that will help make your project a success?" This question area is worth a maximum of twelve percent of the total score.

(e) "Are there any state of Washington or federal mandates that this proposed project addresses?" This question area is worth a maximum of ten percent of the total score.

(f) "Local prioritization process." This question area is worth a maximum of ten percent of the total score. The local prioritization process is described in detail in WAC 173-95A-050.

(4) The department will evaluate the proposed projects based on the information contained in the applications.

(a) Projects will be ranked according to potential water quality benefit and protection of public health.

(b) Projects which have the highest environmental and public health need will be given priority for financial assistance under the SRF program.

(c) Because funds must be used in a timely manner, readiness to proceed is also used in establishing the priority of projects.

(d) Other factors, including funding provisions in chapter 90.50A RCW and provisos identified in the department's biennial capital budget, relationship to the department's published plans such as the *Water Quality Management Plan to Control Nonpoint Sources of Pollution* and total maximum daily load studies, and relationship to published plans created by other federal and state agencies will be included in the priority evaluation.

(e) The department will request other agencies to provide evaluation assistance as needed, including but not limited to,

the Washington state conservation commission, the Puget Sound action team, and the Washington state department of health.

(f) The department will coordinate maximum funding amounts and other issues with other state and federal funding agencies when possible.

(5) The total score that each proposed project receives based on the application form, part two, will be added to the local prioritization score (see WAC 173-95A-050 for more information on the local priority-setting process) to develop the final score for the proposed project.

(6) The department will prepare a draft intended use plan each year after evaluating all applications. The draft intended use plan will list projects in rank order starting with the project receiving the most points in its final score. This will also generally be the order that projects may be offered financial assistance. After issuing the draft intended use plan the department will allow a minimum of thirty days for public review and comment on the draft intended use plan. No later than fifteen days before the end of the public review and comment period the department will conduct at least one workshop to explain the draft intended use plan, answer questions about the draft intended use plan and the evaluation process, and provide details on the public comment process.

(7) The final intended use plan will be issued no later than sixty days after the end of the public review and comment period. The final intended use plan will reflect any changes made as a result of public comments or other information received during the public review and comment period, and will include a responsiveness summary. The final intended use plan will generally list projects in the order that projects may be offered financial assistance.

[Statutory Authority: Chapter 90.50A RCW. 01-01-043 (Order 00-11), § 173-98-040, filed 12/8/00, effective 1/8/01. Statutory Authority: RCW 43.21.080 and chapters 34.05 and 90.50A RCW. 98-24-036 (Order 98-10), § 173-98-040, filed 11/24/98, effective 12/25/98. Statutory Authority: Chapter 90.50A RCW. 89-18-019 (Order 89-34), § 173-98-040, filed 8/29/89, effective 9/29/89.]

WAC 173-98-050 What are the limitations on the use of funds and how are the funds categorized? (1) The fund may be used to provide financial assistance to applicants for the construction of water pollution control facilities which are identified in the intended use plan and activities eligible for assistance under sections 319 and 320 of the act.

(2) Unless the demand for funding is limited SRF loan agreements are subject to the following funding category limitations:

(a) Water pollution control facilities category: Not more than eighty percent of the fund will be available for the construction of facilities as established under section 212 of the act and subject to the requirements of that act. Those projects will be under the water pollution control facilities category.

(b) Nonpoint source and comprehensive estuary conservation and management category: Not more than twenty percent of the fund will be available for the implementation of programs or projects established under the department's approved nonpoint source pollution management plan established under section 319 of the act, and intended for the management of nonpoint sources of pollution, and subject to the requirements of that act, or for programs or projects established under a comprehensive conservation and management plan under section 320 of the act relating to the National Estuary Program, and subject to the requirements of that act. Those projects will be under the nonpoint source and comprehensive estuary conservation and management category.

(c) Not more than fifty percent of the fund in each category will be available to any one applicant.

(3) In accordance with federal law, loan offers identified on the final intended use plan will be effective for up to one year from the date of the offer. All SRF loan offers that do not result in a signed SRF loan agreement within the effective offer period are automatically terminated. Funds reserved for SRF loan agreements that are not signed within the effective period may be carried over and made available for the next year's funding cycle.

(4) The fund may not be used for activities primarily directed toward water resources or water pollution control activities or facilities or portions of those facilities that are primarily intended to control, transport, treat, dispose, or otherwise manage commercial, institutional, or industrial wastewater or other water pollution control needs from those sites. Costs associated with commercial, institutional, or industrial pretreatment are not eligible for funding. However, commercial, institutional, or industrial wastewater flows attributable to a public body's water pollution control facilities which are determined by the department to be "small" may be allowed. Flows from individual commercial, industrial, or institutional sources are considered small when they are less than five percent of the total existing needs, as identified by the department's engineers. Collectively, flows from all individual commercial, industrial, or institutional sources are considered small when they are less than thirty percent of the total existing needs, as identified by the department's engineers.

(5) The fund may not be used to make direct loans to applicants to support the nonfederal share of eligible portions of projects receiving assistance under Title II of the act. The fund may be used to finance portions of such projects which were determined to be ineligible for federal assistance but which are eligible under the SRF program.

(6) Noneligible project costs include, but are not limited to, the following:

(a) Acts of nature: Projects related to acts of nature that alter the natural environment, thereby causing water quality problems;

(b) Aquatic plant control for aesthetic reasons, navigational improvements, or other purposes unrelated to water quality;

(c) Concentrated animal feeding operations except those located in the federally designated Puget Sound and lower Columbia River estuaries;

(d) Engineering reports;

(e) Facilities that propose to meet or maintain primary treatment of domestic sewage;

(f) Flood control: Projects primarily designed to provide flood control;

(g) Water pollution control activities or facilities or portions of those facilities that are primarily intended to control, transport, treat, dispose, or otherwise manage commercial, institutional or industrial wastewater or other water pollution control needs from those sites;

(h) Lake implementation projects where there is no public access;

(i) Permit fees;

(j) Costs associated with commercial, institutional or industrial pretreatment;

(k) Professional dues;

(l) Reclamation of abandoned mines;

(m) Projects proposed by Washington state agencies or federal agencies will not be funded; except that activities projects undertaken by state institutions of higher education are eligible to apply for funding when the activities are not part of the school's statutory responsibilities.

(n) Scientific research unrelated to a specific project;

(o) Sewers: Side sewer laterals or individual pump stations on private residential property, or other appurtenances where the facilities are not owned and maintained by a public body;

(p) Solid and hazardous waste facilities;

(q) Storm water activities and facilities associated exclusively with flood control;

(r) Projects or project elements solely addressing water quantity or other water resource issues.

(7) Noneligible project component costs include, but are not limited to, the following:

(a) Bond costs for debt issuance;

(b) Employee training not related to or identified in an SRF loan agreement;

(c) Equipment required for site and building maintenance;

(d) Facilities components:

(i) Abandonment of existing structures;

(ii) Bonus or acceleration payments to contractors to meet contractual completion dates for construction;

(iii) Capacity in excess of twenty years;

(iv) Construction claims and associated costs determined to be nonmeritorious;

(v) Construction claims, meritorious, in excess of the maximum allowable loan amount;

(vi) Corrective action plans for the one-year performance certification program;

(vii) Cost-plus-a-percentage-of-cost contracts (also known as multiplier contracts);

(viii) Demolition of structures that are not interfering with proposed construction, replacement parts, other than those for an initial set of spare parts for equipment that is critical for facilities to operate in compliance with discharge permit requirements;

(e) Fines and penalties due to violations of or failures to comply with federal, state, or local laws;

(f) Interest on bonds, interim financing, and associated costs to finance projects;

(g) Lake implementation projects where there is no public access;

(h) Land acquisition for siting of wastewater treatment plants, sewer rights of way, and easements, and associated costs;

(i) Landscaping for aesthetic reasons;

(j) Legal expenses other than those associated with development of local ordinances for water quality protection and improvement or associated with the use of a bond counsel in developing a loan agreement;

(k) Lobbying or expenses associated with lobbying;

(l) Monitoring equipment used by an industry for sampling and analyzing industrial discharges to municipal water pollution control facilities;

(m) Office equipment;

(n) Operating expenses of local government, such as the salaries and expenses of a mayor, city council member, and/or city attorney;

(o) Overtime differential paid to employees of local government to complete administrative or force account work;

(p) Personal injury compensation or damages arising out of the project, whether determined by adjudication, arbitration, negotiation, or other means;

(q) Preparation of loan or grant applications;

(r) Previously funded objectives financed with an SRF loan;

(s) Rework costs;

(t) Routine or ongoing operation and maintenance costs;

(u) Seminar and conference fees not identified in an SRF loan agreement;

(v) Vehicle purchase or lease except those vehicles that are integral to a treatment process e.g., sludge truck.

[Statutory Authority: Chapter 90.50A RCW. 01-01-043 (Order 00-11), § 173-98-050, filed 12/8/00, effective 1/8/01. Statutory Authority: RCW 43.21.080 and chapters 34.05 and 90.50A RCW. 98-24-036 (Order 98-10), § 173-98-050, filed 11/24/98, effective 12/25/98. Statutory Authority: Chapter 90.50A RCW. 89-18-019 (Order 89-34), § 173-98-050, filed 8/29/89, effective 9/29/89.]

WAC 173-98-060 What is the step process for planning facilities and activities projects? (1) The step process: The "step process" is a systematic method or proceeding with projects. The step process begins with site-specific planning, and continues through design to construction or implementation. It is required for facilities construction projects and, in a modified form, is required for some kinds of activities projects.

(2) The step process for facilities. To be eligible for an SRF loan, facilities projects must proceed according to the "step process."

(a) Before a public body with a facilities project is eligible to apply for funds, all previous steps must be approved by the department in order to help ensure that funds are well spent on projects proceeding towards a successful outcome. Funding for site-specific facilities planning (step one) or design (step two) does not guarantee the awarding of future loans for construction (step three). The loan agreement will not be signed until all previous steps have been completed and approved by the department.

(b) Planning (step one). Step one involves the preparation of a site-specific facilities plan that identifies and prioritizes the cost-effective alternatives for addressing a water pollution control problem with or without state and federal funding. There is no prerequisite for planning. If there is an existing engineering report, prepared with or without department funding, it must be upgraded for SRF eligibility if it does not meet the definition of a facilities plan.

(c) Design (step two). Step two includes the preparation of plans and specifications for use in construction. These

must be based on the preferred cost-effective alternative identified in the facilities plan.

(i) Facilities plans must be approved by the department before an application for design can be considered for funding. Site-specific facilities planning documents not funded by a department grant or loan must also be approved by the department before an application for design can be considered.

(ii) Due to specific loan review criteria, a facilities plan approved by the department for purposes other than securing a loan will not be accepted for design purposes.

(iii) Facilities plans approved by the department more than two years prior to the close of the SRF application period must contain evidence of recent department review to ensure the document reflects current conditions.

(d) Construction (step three). Step three includes the actual building of facilities based on the approved design.

Design must be approved by the department before an application for construction can be considered for funding.

(e) Design and construction (step four). In some cases, design and construction may be combined into one loan award. Applications for step four loans will be accepted and considered for funding if it can be demonstrated that step two design can be completed and approved by the department within one year of the date the final intended use plan is made public. The SRF loan share of the total eligible project under step four cannot exceed fifty percent of the amount available in the appropriate funding category, or one million dollars, whichever is less.

(f) Step compliance and step deviations. There is one situation in which a deviation from the step process can be allowed:

(i) If the Washington state department of health has declared a public health emergency and if the proposed project would remedy this situation.

(ii) In this situation, the department will accept applications for funding consideration that do not follow the step process. However, no loan agreement will be signed until all previous steps have been completed and approved by the department. This deviation from the step process will only allow an application to be considered for funding. It does not allow a loan to be awarded until all step requirements have been satisfied.

(iii) If a deviation is approved, the applicant may deviate by only one step. For instance, the department could accept an application for design if planning was not completed and approved, or an application for construction if design was not completed and approved. However, the department may not accept an application for construction if planning was not completed and approved.

(3) Prerequisite documents for facilities projects: Draft documents must be sent to the department's engineers at least sixty days prior to end of application cycle for approval by end of application cycle.

(4) The step process for activities. In most cases, the step process for activities is not required. However, those applications proposing to implement a specific project identified in a completed comprehensive plan are given additional consideration in the evaluation process. Agricultural best management practices that involve improvements on private property, or lake projects, must follow the step process.

(a) Planning (step one) involves the identification of problems and evaluation of cost-effective alternatives, based on environmental and economic considerations, for correcting and preventing water quality problems. Specific activities may include planning for watershed management, ground water management areas, lake restoration, and water quality assessment and other related activities.

(b) Implementation (step two) includes the actual implementation of the project based on the approved planning document.

[Statutory Authority: Chapter 90.50A RCW. 01-01-043 (Order 00-11), § 173-98-060, filed 12/8/00, effective 1/8/01. Statutory Authority: RCW 43.21.080 and chapters 34.05 and 90.50A RCW. 98-24-036 (Order 98-10), § 173-98-060, filed 11/24/98, effective 12/25/98. Statutory Authority: Chapter 90.50A RCW. 89-18-019 (Order 89-34), § 173-98-060, filed 8/29/89, effective 9/29/89.]

WAC 173-98-070 What other laws, regulations, or requirements must recipients comply with? (1)(a) All recipients shall comply with all applicable federal, state, and local laws, orders, regulations, and permits. Applications must not be inconsistent with pertinent adopted water quality plans including, but not limited to, plans under sections 208, 303(e), 319, and 320 of the act.

(b) The Puget Sound water quality management plan constitutes the comprehensive conservation and management plan required in section 320 (b)(4) of the act. Plans must not be inconsistent with shoreline master programs, ground water management programs and storm water plans, combined sewer overflow (CSO) reduction plans and county or city comprehensive sewer plans.

(c) In accordance with the SRF loan agreement, the applicant shall provide assurances that the necessary permits required by authorities having jurisdiction over the project have been secured. Copies must be available to the department, upon request.

(2) Recipients shall fully comply with all federal, state, and local laws and regulations related to procurement, discrimination, labor, job safety, and drug-free environments. The recipient shall also comply with the state and federal minority-and-women-owned businesses regulations.

(3) If an SRF loan is provided for water pollution control facilities, recipients shall submit a declaration of construction of water pollution control facilities to the department within thirty days of project, phase, or segment completion.

(4) Recipients must maintain accounting records in accordance with "generally accepted government accounting standards." These standards are defined as, but not limited to, those contained in the United States General Accounting Office (GAO) publication "Standards for Audit of Governmental Organizations, Programs, Activities, and Functions." For example, charges must be properly supported, related to eligible costs, and documented by appropriate records. These accounts must be maintained as separate accounts.

(5) Accounting irregularities may result in an immediate stoppage of payment until irregularities are resolved. The director may require immediate repayment of misused loan funds.

(6) According to RCW 90.50A.060, in the event of loan default, the state of Washington may withhold any amounts otherwise due to the recipient from the state and direct that such moneys be applied to the indebtedness and deposited into the SRF.

(7) Appeals of SRF loan agreement decisions will be processed in accordance with the water quality financial assistance appeals procedure. The only decisions which can be appealed are written decisions by the department made during the effective SRF loan agreement period. Appeals must be filed in writing to the department within forty-five days from the date of the disputed decision. Following the final decision of a dispute, the department and the recipient shall proceed with the project in accordance with the decision rendered. Administrative or legal costs and other expenses incurred as part of an appeal will not be eligible for reimbursement.

(8) The department, or at the department's discretion another authorized auditor, will audit the SRF loan agreement and records.

(9) Recipients shall maintain comprehensive insurance coverage on the project for an amount equal to the funds disbursed.

[Statutory Authority: RCW 43.21.080 and chapters 34.05 and 90.50A RCW. 98-24-036 (Order 98-10), § 173-98-070, filed 11/24/98, effective 12/25/98. Statutory Authority: Chapter 90.50A RCW. 89-18-019 (Order 89-34), § 173-98-070, filed 8/29/89, effective 9/29/89.]

WAC 173-98-075 How does the Growth Management Act impact the use of funds? (1) A local government not in compliance with the Growth Management Act may not receive loans or grants from the department, except that, in limited circumstances, a local government that is not in compliance with the Growth Management Act may receive loans or grants from the department where necessary to address a public health need or substantial environmental degradation.

(2) For the purposes of this chapter, "compliance with the Growth Management Act" means that:

(a) A county, city, or town that is required to or chooses to plan under RCW 36.70A.040 has adopted a comprehensive plan and development regulations in conformance with the requirements of chapter 36.70A RCW, after it is required that the comprehensive plan and development regulations be adopted; and

(b) The county, city, or town has not been found out of compliance by a growth management hearings board; or

(c) A growth management hearings board has found a county, city, or town in compliance with the requirements of chapter 36.70A RCW, after previously finding the county, city, or town was not in compliance.

(3) For the purposes of this chapter, a public health need related to a loan or grant must be documented by a letter signed by the secretary of the Washington state department of health or his or her designee and addressed to the public official who signed the loan or grant application. "Public health need" means a situation where:

(a) There is a documented potential for:

(i) Contaminating a source of drinking water; or

(ii) Failure of existing wastewater system or systems resulting in contamination being present on the surface of the ground in such quantities and locations as to create a potential for public contact; or

(iii) Contamination of a commercial or recreational shellfish bed as to create a critical public health risk associated with consumption of the shellfish; or

(iv) Contamination of surface water so as to create a critical public health risk associated with recreational use; and

(b) The problem generally involves a serviceable area including, but not limited to, a subdivision, town, city, or county, or an area serviced by on-site sewage disposal systems; and

(c) The problem cannot be corrected through more efficient operation and maintenance of an existing wastewater disposal system or systems.

(4) For the purposes of this chapter, a substantial environmental degradation related to a loan or grant must be documented by a letter signed by the director of the department or his or her designee and addressed to the public official who signed the loan or grant application.

"Substantial environmental degradation" means that:

(a) There is a situation causing real, documented, critical environmental contamination that:

(i) Contributes to violations of the state's water quality standards; or

(ii) Interferes with beneficial uses of the waters of the state; and

(b) The problem generally involves a serviceable area including, but not limited to, a subdivision, town, city, or county, or an area serviced by on-site sewage disposal systems; and

(c) The problem cannot be corrected through more efficient operation and maintenance of an existing wastewater disposal system or systems.

(5) A county, city, or town that has been offered a loan or grant for a water pollution control facilities project may not receive loan or grant funds while the county, city, or town is not in compliance with the Growth Management Act unless:

(a) Documentation showing that a public health need has been provided by the Washington state department of health; or documentation showing that a substantial environmental degradation exists has been provided by the department of ecology; and

(b) The county, city, or town has provided documentation to the department that actions or measures are being implemented to address the public health need or substantial environmental degradation; and

(c) The department has determined that the project is designed to address only the public health need or substantial environmental degradation described in the documentation, and does not address unrelated needs including, but not limited to, provisions for additional growth.

[Statutory Authority: Chapter 90.50A RCW. 01-01-043 (Order 00-11), § 173-98-075, filed 12/8/00, effective 1/8/01.]

WAC 173-98-080 Indemnification. (1) The department shall in no way be held responsible for payment of salaries, consultant's fees, and other overhead costs related to an SRF loan agreement issued to a recipient.

(2) To the extent that the Constitution and laws of the state of Washington permit, the recipient shall indemnify and

hold the department harmless from and against any liability for any or all injuries to persons or property arising out of an SRF loan agreement except for such damage, claim, or liability resulting from the negligent act or omission of the department.

[Statutory Authority: RCW 43.21.080 and chapters 34.05 and 90.50A RCW. 98-24-036 (Order 98-10), § 173-98-080, filed 11/24/98, effective 12/25/98. Statutory Authority: Chapter 90.50A RCW. 89-18-019 (Order 89-34), § 173-98-080, filed 8/29/89, effective 9/29/89.]

WAC 173-98-090 How are loans managed? (1) Timely use of funds: Projects funded with loans must be spent in a timely fashion so that funds are put to work for the water quality of the state as soon as possible. To accomplish this, certain time restrictions are placed on the use of funds as follows:

(a) Work on a project must be started within sixteen months of the publication date of the final intended use plan on which the project was proposed.

(i) Any expenditure of funds which is eligible for reimbursement under the terms of the loan agreement constitutes starting the project.

(ii) No more than one time extension of no more than twelve months may be made when there are valid reasons for the extension and when the extension is included in the signed funding agreement with the department.

(iii) Valid reasons for a time extension allowing a start date more than sixteen months after the publication date of the final intended use plan are limited to:

(A) Schedules included in water quality permits, consent decrees, or enforcement orders; or

(B) The recipient and the department agree that there is a need to do work during an environmental window in a specific season of the year.

(iv) If the funding recipient has one of these valid reasons to wait longer than sixteen months to start the project, the reasons why it will take longer and the schedule the recipient will follow must both be stated clearly in a signed loan agreement.

(b) Work on a project must be completed within five years of the publication date of the final intended use plan on which the project was proposed or within a shorter time period if the shorter period is identified in the funding agreement for the project. When all work identified in the funding agreement scope of work is finished, the project is deemed to be completed. After the five-year time limit is reached, no further expenditures may be reimbursed unless an extension is made.

(i) No more than one time extension of no more than twelve months may be made when there are valid reasons for the extension; and

(A) The extension is requested no less than three months before the funding agreement is due to expire; and

(B) The department's water quality program manager agrees that the extension is for a valid reason.

(ii) Valid reasons for a time extension are limited to:

(A) Schedules included in water quality permits, consent decrees, or enforcement orders; or

(B) The recipient and the department agree that there is a need to do work during an environmental window in a specific season of the year.

(iii) If the funding recipient has one of these valid reasons to be allowed a time extension, the reasons why it will take longer and the schedule the recipient will follow must both be stated clearly in a signed amendment to the existing loan agreement.

(2) Prior authorization to incur costs. In cases where a project has been identified on a final intended use plan, the applicant may make a written request to the water quality program manager, asking to begin incurring costs related to a loan for which there is not yet a signed loan agreement. If the department concurs with this request, the water quality program manager will send the applicant a letter authorizing the costs. The applicant incurs the costs at their own risk. When an agreement is signed, previously incurred costs that are not eligible under the terms of the agreement are the sole responsibility of the applicant.

(3) The administration of all loans will be subject to all terms and conditions in a funding agreement signed by the department and by the recipient.

(4) Ongoing management of most aspects of loan projects is subject to the most recent edition of *Administrative Requirements for Ecology Grants and Loans,* copies of which will be provided to all recipients.

[Statutory Authority: Chapter 90.50A RCW. 01-01-043 (Order 00-11), § 173-98-090, filed 12/8/00, effective 1/8/01. Statutory Authority: RCW 43.21.080 and chapters 34.05 and 90.50A RCW. 98-24-036 (Order 98-10), § 173-98-090, filed 11/24/98, effective 12/25/98. Statutory Authority: Chapter 90.50A RCW. 89-18-019 (Order 89-34), § 173-98-090, filed 8/29/89, effective 9/29/89.]

WAC 173-98-100 How do recipients comply with the state environmental review process? (1) All recipients which receive SRF loans must meet the provisions of the State Environmental Policy Act (SEPA), chapter 43.21C RCW, and the SEPA rules, chapter 197-11 WAC. Additional provisions are currently needed by federal law under Title VI of the act to satisfy the state's responsibility to help ensure that recipients comply with the National Environmental Policy Act (NEPA) and other applicable environmental laws, regulations, and executive orders. The lead agency (WAC 197-11-050(2)) responsible for SEPA compliance for each project under the SRF program shall also comply with the following additional provisions. When a categorical exclusion, finding of no significant impact, or a record of decision has been issued under NEPA for the same project scope of work, no additional environmental documentation is required. Applicants will need to adopt the federal environmental documentation to meet their responsibilities as required by SEPA rules WAC 197-11-600, 197-11-610, and 197-11-630. If federal environmental documentation has not been submitted for approval to the appropriate federal agency, applicants and designated lead agencies must:

(a) Consult with the department before determining that the project is categorically exempt from SEPA and obtain concurrence that the project meets the criteria for a categorical exemption (WAC 197-11-305) and give public notice of the categorical exemption by publishing a notice in a newspa-

per of area-wide circulation. This notice shall include the locations where the public may review the facilities plan and other environmental information.

(b) Consult with the department prior to issuing a threshold determination (WAC 197-11-330), and submit a copy of the environmental checklist (WAC 197-11-315) and a recommended threshold determination to the department.

(c) Obtain written concurrence from the director with the recommended threshold determination as to whether a determination of nonsignificance (DNS) (WAC 197-11-340) or an environmental impact statement (EIS) is to be issued prior to issuing the actual document.

(d) Issue the threshold determination, determination of nonsignificance (DNS) or determination of significance (DS) (WAC 197-11-360) and submit copies to the department; two copies shall be sent to the department's environmental review section and one copy to the regional water quality program (WQ) of the department. The director must concur in writing with the findings of the checklist and DNS if a DNS is issued.

(e) Give public notice of the threshold determination by publishing a notice in a newspaper of area-wide circulation. This notice shall include the locations where the public may review the threshold determination, facilities plan, and other environmental information.

(f) Distribute copies of the threshold determination and supporting documents to other affected local, state, and federal agencies, Indian tribes, and the public.

(g) When a DS is issued, the lead agency will develop the final scope of elements to be addressed in the environmental impact statement (EIS) and obtain written concurrence from the director. The department shall be consulted throughout the EIS process.

(h) Distribute copies of the draft and final EIS to the department; two copies shall be sent to both the environmental review section and the department's water quality program.

(i) Give public notice of the draft and final EIS by publishing notices in a newspaper of area-wide circulation. Notices shall include the locations where the public may review the draft and final EIS or obtain copies.

(j) Distribute copies of the draft and final EIS to other affected local, state, and federal agencies, Indian tribes, and the public.

(k) The director must concur in writing with the finding of the final EIS.

(2) The lead agency shall issue a notice of action for the final EIS regarding the preferred alternative in accordance with RCW 43.21C.080, WAC 197-11-680, and 197-11-990.

(3) A cost-effectiveness analysis will be required for all SRF projects. Planning must include a comparison of the total cost, i.e., capital, operation and maintenance, and replacement costs of the project with other alternatives, including the no action alternative. The comparison of the total costs, e.g., total present worth or annual equivalent costs of projects for the planning period, must be included. Cost-effective analyses must also include nonmonetary cost of the project, i.e., the environmental impact, resource utilization, implementability, etc. This analysis must be included in the planning document and must be summarized in the EIS or DNS. Financial assistance under the SRF program will be offered to the cost-effective solution to the water pollution control problem.

(4) All mitigation measures committed to in the environmental checklist or state EIS, or in the finding of no significance impact/environmental assessment or record of decision/federal EIS (for federally approved projects) will become SRF loan agreement conditions. Applicants must complete all mitigation measures required. Failure to abide by these conditions will result in withholding of payments and may result in immediate repayment of the loan.

(5) The applicant must comply with the requirements of applicable environmental laws, regulations, and executive orders. Concurrence from the director will be based on best available information provided by the applicant. The department is not responsible for concurrence based on erroneous information.

[Statutory Authority: RCW 43.21.080 and chapters 34.05 and 90.50A RCW. 98-24-036 (Order 98-10), § 173-98-100, filed 11/24/98, effective 12/25/98. Statutory Authority: Chapter 90.50A RCW. 89-18-019 (Order 89-34), § 173-98-100, filed 8/29/89, effective 9/29/89.]

WAC 173-98-110 What are the repayment options and schedules? (1) General provisions.

When the scope of work identified in the SRF loan agreement has been fully completed and/or the initiation of operation date has been determined:

(a) The department and recipient will execute a final SRF loan agreement amendment which details the final loan amount. This amount will include the principal from disbursements made to recipients and accrued interest. Interest will accrue on each disbursement as it is paid to the recipient.

(b) The department will prepare according to the SRF loan agreement, a repayment schedule which fully amortize the final loan amount within twenty years of project completion. The first repayment of principal and interest will be due no later than one year after the initiation of operation date or at project completion date, whichever occurs first. Equal payments will be due every six months after this first payment. Loan balances may be repaid or additional principal payments may be made at any time without penalty.

(c) If any amount of the final loan amount or any other amounts owed to the department remains unpaid after it becomes due and payable, the department may assess a late charge. The late charge shall be additional interest at the rate of one percent per month, or fraction thereof, starting on the date the debt becomes past due and until it is paid in full.

(d) If the due date for any semiannual payment falls on a Saturday, Sunday, or designated holiday for Washington state agencies, the payment shall be due on the next business day for Washington state agencies.

(2) Phased or segmented project. Where a project has been phased or segmented, the general provisions for repayment shall apply to the completion of individual phases or segments.

(3) More than five years to complete project. When a project approved by the department takes longer than five years to complete, loan repayment must begin within five years of the first disbursement for the project, unless the director determines that the fund is fiscally sound without this repayment schedule. Repayments for these loans must

follow the general provisions as outlined in subsection (1)(b) of this section.

(4) Security for loan repayment. Loans shall be secured by a general obligation pledge or a revenue pledge of the recipient. The obligation of the recipient to make loan repayments from the sources identified in its SRF loan agreement shall be absolute and unconditional, and shall not be subject to diminution by setoff, counterclaim, or abatement of any kind.

(a) General obligation. When repayment of a loan is secured by a general obligation pledge, the recipient shall pledge for so long as the loan is outstanding, to include in its budget and levy taxes annually within the constitutional and statutory tax limitations provided by law without a vote of its electors, on all of the taxable property within its boundaries in an amount sufficient, together with other money legally available and to be used for loan repayment, to pay when due the principal of and interest on the loan, and the full faith, credit, and resources of the recipient shall be pledged irrevocably for the annual levy and collection of those taxes and the prompt payment of the principal of and interest on the loan.

(b) Revenue obligation. Repayment of a loan may be secured by an irrevocable pledge of the net revenues of the recipient's utility and, in appropriate cases, utility local improvement district assessments. In such cases:

(i) Lien position. Repayment of a loan shall constitute a lien and charge (A) upon the net revenues of the recipient's utility prior and superior to any other charges whatsoever, except that the lien and charge shall be junior and subordinate to the lien and charge of any senior lien obligations and, (B) if applicable, upon utility local improvement district assessments prior and superior to any other charges whatsoever.

(ii) Reserve requirement. For loans that are revenue-secured debt with terms greater than five years, the recipient must accumulate a reserve for the loan equivalent to at least the average annual debt service on the loan during the first five years of the repayment period of the loan. This amount shall be deposited in a reserve account in the loan fund in approximately equal annual payments commencing within one year after the initiation of operation or the project completion date, whichever comes first. "Reserve account" means, for a loan that constitutes revenue-secured debt, an account of that name created in the loan fund to secure the payment of the principal of and interest on the loan. The amount on deposit in the reserve account may be applied by the recipient (A) to make, in part or in full, the final repayment to the department of the loan amount or, (B) if not so applied, for any other lawful purpose of the recipient once the loan amount, plus interest and any other amounts owing to the department hereunder, have been paid in full.

(5) Repayment from other than pledged sources. A recipient may repay any portion of its loan from any legally available funds other than those pledged in its SRF loan agreement to repay the loan.

(6) No defeasance or advance refunding. So long as the department holds a loan, the recipient shall not be entitled to, and shall not effect, its economic defeasance or advance refunding.

[Statutory Authority: Chapter 90.50A RCW. 01-01-043 (Order 00-11), § 173-98-110, filed 12/8/00, effective 1/8/01. Statutory Authority: RCW 43.21.080 and chapters 34.05 and 90.50A RCW. 98-24-036 (Order 98-10), § 173-98-110, filed 11/24/98, effective 12/25/98. Statutory Authority: Chapter 90.50A RCW. 89-18-019 (Order 89-34), § 173-98-110, filed 8/29/89, effective 9/29/89.]

WAC 173-98-120 General provisions. (1) Sale of facilities to private enterprises. Recipients may sell facilities for which the SRF loan was provided to private enterprises; however, the SRF loan agreement must be terminated in accordance with the terms of the agreement and the assistance repaid to the SRF immediately upon sale.

(2) Refinancing. The refinancing of existing debt obligations shall be limited to water pollution control facilities where project construction began after March 7, 1985. Applicants requesting refinancing must meet all the requirements contained in the act. They must be on the intended use plan before assistance will be offered and must be eligible to receive such assistance. There are two kinds of refinance with different regulations:

(a) Interim refinance: Interim refinance refers to a project which is still in progress and for which the applicant went forward on their own accord and using funding from a source other than the department. For projects in this category, applicants for funding should apply in the same manner as any other project, making certain to clearly state that the project is underway and that they have secured all prerequisite documents.

(b) Standard refinance: Standard refinance refers to a project which has been completed using funding from a source other than the department.

(i) Standard refinance projects will only be funded if there is limited demand for funds for new projects.

(ii) The department will not refinance debt from funding programs administered by the department.

(iii) All project prerequisites must have been met at the time the project was undertaken.

(iv) All standard refinance projects applying for funding in a fiscal year will be ranked by financial capability using the same criteria used for evaluating hardship, and giving the highest ranking to the applicants with the greatest financial need.

(v) For standard refinance projects, applicants for funding may use a shorter, simpler application form. This form will ask basic questions about the project and about the applicant's financial capability to pay for the project with and without the refinance.

(vi) Successful applicants for standard refinance projects must make their first repayment six months after they sign a funding agreement.

(3) Self certification. The department may authorize a recipient to certify compliance with selected program requirements. The recipient must request such certification authority and document that it has the capability and resources, that it is in the best interest of the state, and that the request is consistent with state and federal laws and regulations. Concurrences required in the environmental review process cannot be delegated to recipients.

(4) For all projects, the recipient must acknowledge state and federal financial assistance in all reports, technical documents, publications, brochures, and other materials produced using funding from the loan or grant. All site-specific

projects must have a sign of sufficient size to be seen from nearby roadways, acknowledging state and federal financial assistance, and left in place throughout the life of the project. Department and environmental protection agency logos must be on all signs and documents and will be provided as needed.

[Statutory Authority: Chapter 90.50A RCW. 01-01-043 (Order 00-11), § 173-98-120, filed 12/8/00, effective 1/8/01. Statutory Authority: RCW 43.21.080 and chapters 34.05 and 90.50A RCW. 98-24-036 (Order 98-10), § 173-98-120, filed 11/24/98, effective 12/25/98. Statutory Authority: Chapter 90.50A RCW. 89-18-019 (Order 89-34), § 173-98-120, filed 8/29/89, effective 9/29/89.]

Chapter 173-100 WAC
GROUND WATER MANAGEMENT AREAS AND PROGRAMS

WAC

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WAC 173-100-010 Purpose. The purpose of this chapter is to establish guidelines, criteria, and procedures for the designation of ground water management areas, subareas or zones and to set forth a process for the development of ground water management programs for such areas, subareas, or zones, in order to protect ground water quality, to assure ground water quantity, and to provide for efficient management of water resources for meeting future needs while recognizing existing water rights. The intent of this chapter is to forge a partnership between a diversity of local, state, tribal and federal interests in cooperatively protecting the state's ground water resources.

[Statutory Authority: RCW 90.44.400. 86-02-004 (Order DE 85-24), § 173-100-010, filed 12/20/85.]

WAC 173-100-020 Authority. This chapter is promulgated by the department of ecology pursuant to RCW 90.44.400, 90.44.410, 90.44.420, 90.44.430 and 90.44.440.

[Statutory Authority: RCW 90.44.400. 86-02-004 (Order DE 85-24), § 173-100-020, filed 12/20/85.]

WAC 173-100-030 Overview. This regulation establishes a process for the identification and designation of ground water management areas and for the development of comprehensive ground water management programs. From a general schedule of probable ground water management areas, the department of ecology in cooperation with local government will designate specific ground water management areas, subareas, or depth zones within such areas and will appoint a lead agency to develop a ground water management program and an advisory committee to oversee the development of the program for each designated area. Following completion of the program and a public hearing to be held by the department of ecology, the program must be certified to be consistent with the intent of this chapter. The program will then be implemented through state regulations and local ordinances. The programs must thereafter be periodically reviewed.

[Statutory Authority: RCW 90.44.400. 86-02-004 (Order DE 85-24), § 173-100-030, filed 12/20/85.]

WAC 173-100-040 Definitions. For the purposes of this chapter the following definitions shall apply:

(1) "Aquifer" means a geologic formation, group of formations or part of a formation capable of yielding a significant amount of ground water to wells or springs.

(2) "Department" means the Washington state department of ecology.

(3) "Ground water" means all waters that exist beneath the land surface or beneath the bed of any stream, lake or reservoir, or other body of surface water, whatever may be the geological formation or structure in which such water stands or flows, percolates or otherwise moves.

(4) "Ground water advisory committee" means a committee appointed by the department to assist in the development of a ground water management program.

(5) "Ground water area or subarea" means a geographic area designated pursuant to RCW 90.44.130.

(6) "Ground water management area" means a specific geographic area or subarea designated pursuant to this chapter for which a ground water management program is required.

(7) "Ground water management program" means a comprehensive program designed to protect ground water quality, to assure ground water quantity and to provide for efficient management of water resources while recognizing existing ground water rights and meeting future needs consistent with local and state objectives, policies and authorities within a designated ground water management area or subarea and developed pursuant to this chapter.

(8) "Ground water management zone" means any depth or stratigraphic zone separately designated by the department in cooperation with local government for ground water management purposes within a ground water management area. Ground water management zones may consist of a specific geologic formation or formations or other reasonable bounds determined by the department consistent with the purposes of this chapter.

(9) "Ground water right" means an authorization to use ground water established pursuant to chapter 90.44 RCW, state common or statutory law existing prior to the enactment of chapter 90.44 RCW, or federal law.

(10) "Ground water user group" means an established association of holders of ground water rights located within a proposed or designated ground water management area.

(11) "Lead agency" means the agency appointed by the department to coordinate and undertake the activities necessary for the development of a ground water management pro-

gram. Either the department or an agency of local government may be the lead agency.

(12) "Local government" means any county, city, town, or any other entity having its own incorporated government for local affairs including, but not limited to, a metropolitan municipal corporation, public utility district, water district, irrigation district, and/or sewer district.

(13) "Local government legislative authority" means the city or town council, board of county commissioners, special district commission, or that body assigned such duties by a city, county or district charter as enacting ordinances, passing resolutions, and appropriating funds for expenditure.

(14) "Probable ground water management area" means a specific geographic area identified by the department, in cooperation with other state agencies, local government and ground water user groups, as a candidate area for designation as a ground water management area pursuant to this chapter.

[Statutory Authority: RCW 90.44.400. 86-02-004 (Order DE 85-24), § 173-100-040, filed 12/20/85.]

WAC 173-100-050 Probable ground water management areas. The department in cooperation with local government and ground water user groups shall identify probable ground water management areas.

(1) Probable ground water management areas may be proposed for identification at any time by the department upon its own motion or at the request of other state agencies, local government or ground water user groups.

(2) Probable ground water management area boundaries shall be delineated so as to enclose one or more distinct bodies of public ground water as nearly as known facts permit. Probable ground water management subareas shall be delineated so as to enclose all or any part of a distinct body of public ground water. Boundaries shall be based on hydrogeologic properties such as limits to lateral extent of aquifers, major perennial rivers, and regional ground water divides or as deemed appropriate by the department to most effectively accomplish the purposes of this chapter.

(3) The criteria to guide identification of probable ground water management areas shall include, but not be limited to, the following:

(a) Geographic areas where ground water quality is threatened;

(b) Aquifers that are declining due to restricted recharge or over-utilization;

(c) Aquifers in which over-appropriation may have occurred and adjudication of water rights has not yet been completed;

(d) Aquifers reserved or being considered for water supply reservation under chapter 90.54 RCW for future beneficial uses;

(e) Aquifers identified as the primary source of supply for public water supply systems;

(f) Aquifers underlying a critical water supply service area where the coordinated water system plan established pursuant to chapter 70.116 RCW has identified a need for a ground water management program;

(g) Aquifers designated as sole source aquifers by the federal Environmental Protection Agency;

(h) Geographic areas where the ground water is susceptible to contamination or degradation resulting from land use activities;

(i) Aquifers threatened by seawater intrusion; or

(j) Aquifers from which major ground water withdrawals have been proposed or appear imminent.

(4) The state agency, local government or ground water user group requesting probable ground water management area identification shall provide sufficient information for the department to determine if the area should be so identified. The department and other affected state and local governments and user groups may cooperate in preparing the request for identification.

(a) The request for identification shall be presented in a concise, factual report form and shall consider the guidelines and criteria set forth in subsections (2) and (3) of this section as they relate to the proposed area. It shall also contain: (i) Supporting data as to the need for such identification; (ii) a general description of and rationale for the proposed ground water management area boundary; (iii) goals and objectives for the proposed ground water management area; (iv) an estimated cost of developing the ground water management program and potential funding sources; (v) recommendations for agencies, organizations and groups to be represented on the ground water management area advisory committee; and (vi) a recommendation for the lead agency, taking into consideration the responsibilities contained in WAC 173-100-080.

(b) The recommendation for lead agency shall first be submitted to the county or counties with jurisdiction for written concurrence. Such written concurrence shall be included with the information required in (a) of this subsection. If such concurrence cannot be obtained, the department shall attempt to mediate an agreement between the parties.

(c) The agency or ground water user group initiating the request for identification shall hold at least one public meeting for the purpose of receiving comments from the public, affected local, state and tribal agencies and ground water user groups.

(d) Upon completion, the request for identification shall be submitted to the department and other affected state and local agencies and ground water user groups for their review and comment. Comments shall be submitted to the department.

(5) If the department is proposing an area for identification, the department shall prepare a report containing the information in subsection (4)(a) of this section, hold a public meeting, and submit the report to affected state and local agencies and ground water user groups for their review and comment.

(6) Based upon review of the request for identification together with any comments received and a finding that the proposed area meets the guidelines and criteria of subsections (2) and (3) of this section, the department shall identify the proposed area as a probable ground water management area, establish the general planning boundaries and appoint a lead agency. When a probable ground water management area is included within only one county and that county indicates its desire to assume lead agency status, the department shall appoint the county as lead agency. The department shall notify affected state and local agencies, ground water user

groups, tribal governments and local news media of such identification.

[Statutory Authority: Chapters 43.27A and 90.44 RCW. 88-13-037 (Order 88-11), § 173-100-050, filed 6/9/88. Statutory Authority: RCW 90.44.400. 86-02-004 (Order DE 85-24), § 173-100-050, filed 12/20/85.]

WAC 173-100-060 General schedule. The department shall establish a general schedule for the designation of specific ground water management areas. The general schedule shall guide the department in the designation of specific ground water management areas and in the allocation of the department's available water resources funding and staffing.

(1) The general schedule for designation of ground water management areas shall identify the relative priority of each of the probable ground water management areas. The relative priority of the probable ground water management areas shall be based upon:

(a) The availability of local or state agency resources to develop and implement a ground water management program;

(b) The significance, severity or urgency of the problems or potential problems described in the request for identification submitted for each area, with the highest priority given to areas where the water quality is imminently threatened;

(2) The department shall revise the general schedule as needed to comply with the intent of this chapter. After each revision the general schedule shall be published in the news media and the Washington State Register. A public hearing will be held in June of each year to receive public comment on the general schedule.

[Statutory Authority: RCW 90.44.400. 86-02-004 (Order DE 85-24), § 173-100-060, filed 12/20/85.]

WAC 173-100-070 Designation of ground water management areas for program planning purposes. The department shall designate ground water management areas by order of the department in accordance with the general schedule. The department shall hold a public hearing within the county or counties containing the probable ground water management area prior to such designation. The order shall be issued to the lead agency as well as the agency or ground water user group originally requesting identification of the areas, with copies sent to other affected state agencies, local governments, tribal governments and those parties recommended for ground water advisory committee membership. Copies of the order shall be published by the department in newspapers of general circulation within the area. The order shall contain a general description of the planning boundary for the ground water management area and shall state that the department, in cooperation with the lead agency and local government, intends to appoint a ground water advisory committee to oversee the development of a ground water management program for the area.

[Statutory Authority: RCW 90.44.400. 86-02-004 (Order DE 85-24), § 173-100-070, filed 12/20/85.]

WAC 173-100-080 Lead agency responsibilities. The lead agency shall be responsible for coordinating and undertaking the activities necessary for development of the ground water management program. These activities shall include collecting data and conducting studies related to hydrogeology, water quality, water use, land use, and population projections; scheduling and coordinating advisory committee meetings; presenting draft materials to the committee for review; responding to comments from the committee; coordinating SEPA review; executing inter-local agreements or other contracts; and other duties as may be necessary. The lead agency shall also prepare a work plan, schedule, and budget for the development of the program that shows the responsibilities and roles of each of the advisory committee members as agreed upon by the committee. Data collection, data analysis and other elements of the program development may be delegated by the lead agency to other advisory committee members.

[Statutory Authority: RCW 90.44.400. 86-02-004 (Order DE 85-24), § 173-100-080, filed 12/20/85.]

WAC 173-100-090 Ground water advisory committee. (1) The ground water advisory committee shall be responsible for overseeing the development of the ground water management program; reviewing the work plan, schedule and budget for the development of the program; assuring that the program is technically and functionally sound; verifying that the program is consistent with this chapter and with the respective authorities of the affected agencies; and formulating and implementing a public involvement plan.

(2) The membership of each ground water advisory committee shall represent a broad spectrum of the public in order to ensure that the ground water is protected and utilized for the greatest benefit to the people of the state. The committee shall include, but not be limited to, representation from the following groups:

(a) Local government legislative authorities within the designated area;

(b) Planning agencies having jurisdiction within the designated area;

(c) Health agencies having jurisdiction within the designated area;

(d) Ground water user groups within the designated area, including domestic well owners;

(e) The department;

(f) Department of social and health services;

(g) Other local, state, and federal agencies as determined to be appropriate by the department;

(h) Tribal governments, where a ground water management program may affect tribal waters;

(i) Public and special interest groups such as agricultural, well drilling, forestry, environmental, business and/or industrial groups within the area, as determined to be appropriate by the department.

(3) The department shall appoint, by letter, members and alternates to the ground water advisory committee after seeking nominations from the groups listed above. Members and alternates shall serve until the ground water management program for the area is certified. The department may appoint replacement members or alternates upon request of the appointee or the ground water advisory committee.

(4) The lead agency shall hold the first meeting of the ground water advisory committee within sixty days of the appointment of the committee. Public notice shall be given

for each meeting. The lead agency shall chair the first meeting, during which the advisory committee shall determine, by general agreement, rules for conducting business, including voting procedures, and the chairperson of the advisory committee.

[Statutory Authority: RCW 90.44.400. 86-02-004 (Order DE 85-24), § 173-100-090, filed 12/20/85.]

WAC 173-100-100 Ground water management program content. The program for each ground water management area will be tailored to the specific conditions of the area. The following guidelines on program content are intended to serve as a general framework for the program, to be adapted to the particular needs of each area. Each program shall include, as appropriate, the following:

(1) An area characterization section comprised of:

(a) A delineation of the ground water area, subarea or depth zone boundaries and the rationale for those boundaries;

(b) A map showing the jurisdictional boundaries of all state, local, tribal, and federal governments within the ground water management area;

(c) Land and water use management authorities, policies, goals and responsibilities of state, local, tribal, and federal governments that may affect the area's ground water quality and quantity;

(d) A general description of the locale, including a brief description of the topography, geology, climate, population, land use, water use and water resources;

(e) A description of the area's hydrogeology, including the delineation of aquifers, aquitards, hydrogeologic cross-sections, porosity and horizontal and vertical permeability estimates, direction and quantity of ground water flow, water-table contour and potentiometric maps by aquifer, locations of wells, perennial streams and springs, the locations of aquifer recharge and discharge areas, and the distribution and quantity of natural and man-induced aquifer recharge and discharge;

(f) Characterization of the historical and existing ground water quality;

(g) Estimates of the historical and current rates of ground water use and purposes of such use within the area;

(h) Projections of ground water supply needs and rates of withdrawal based upon alternative population and land use projections;

(i) References including sources of data, methods and accuracy of measurements, quality control used in data collection and measurement programs, and documentation for and construction details of any computer models used.

(2) A problem definition section that discusses land and water use activities potentially affecting the ground water quality or quantity of the area. These activities may include but are not limited to:

- Commercial, municipal, and industrial discharges
- Underground or surface storage of harmful materials in containers susceptible to leakage
- Accidental spills
- Waste disposal, including liquid, solid, and hazardous waste
- Storm water disposal
- Mining activities
- Application and storage of roadway deicing chemicals
- Agricultural activities
- Artificial recharge of the aquifer by injection wells, seepage ponds, land spreading, or irrigation
- Aquifer over-utilization causing seawater intrusion, other contamination, water table declines or depletion of surface waters
- Improperly constructed or abandoned wells
- Confined animal feeding activities

The discussion should define the extent of the ground water problems caused or potentially caused by each activity, including effects which may extend across ground water management area boundaries, supported by as much documentation as possible. The section should analyze historical trends in water quality in terms of their likely causes, document declining water table levels and other water use conflicts, establish the relationship between water withdrawal distribution and rates and water level changes within each aquifer or zone, and predict the likelihood of future problems and conflicts if no action is taken. The discussion should also identify land and water use management policies that affect ground water quality and quantity in the area. Areas where insufficient data exists to define the nature and extent of existing or potential ground water problems shall be documented.

(3) A section identifying water quantity and quality goals and objectives for the area which (a) recognize existing and future uses of the aquifer, (b) are in accordance with water quality standards of the department, the department of social and health services, and the federal environmental protection agency, and (c) recognize annual variations in aquifer recharge and other significant hydrogeologic factors;

(4) An alternatives section outlining various land and water use management strategies for reaching the program's goals and objectives that address each of the ground water problems discussed in the problem definition section. If necessary, alternative data collection and analysis programs shall be defined to enable better characterization of the ground water and potential quality and quantity problems. Each of the alternative strategies shall be evaluated in terms of feasibility, effectiveness, cost, time and difficulty to implement, and degree of consistency with local comprehensive plans and water management programs such as the coordinated water system plan, the water supply reservation program, and others. The alternative management strategies shall address water conservation, conflicts with existing water rights and minimum instream flow requirements, programs to resolve such conflicts, and long-term policies and construction practices necessary to protect existing water rights and subsequent facilities installed in accordance with the ground water management area program and/or other water right procedures.

(5) A recommendations section containing those management strategies chosen from the alternatives section that are recommended for implementation. The rationale for choosing these strategies as opposed to the other alternatives identified shall be given;

(6) An implementation section comprised of:

(a) A detailed work plan for implementing each aspect of the ground water management strategies as presented in the recommendations section. For each recommended management action, the parties responsible for initiating the action and a schedule for implementation shall be identified. Where possible, the implementation plan should include specifically worded statements such as model ordinances, recommended governmental policy statements, interagency agreements, proposed legislative changes, and proposed amendments to local comprehensive plans, coordinated water system plans, basin management programs, and others as appropriate;

(b) A monitoring system for evaluating the effectiveness of the program;

(c) A process for the periodic review and revision of the ground water management program.

[Statutory Authority: RCW 90.44.400. 86-02-004 (Order DE 85-24), § 173-100-100, filed 12/20/85.]

WAC 173-100-110 SEPA review. The proposed ground water management program shall be subject to review pursuant to the State Environmental Policy Act, chapter 43.21C RCW, as required under the applicable implementing regulations.

[Statutory Authority: RCW 90.44.400. 86-02-004 (Order DE 85-24), § 173-100-110, filed 12/20/85.]

WAC 173-100-120 Hearings and implementation. (1) Upon completion of the ground water area management program, the department shall hold a public hearing within the designated ground water management area for the purpose of taking public testimony on the proposed program. Local governments are encouraged to hold joint hearings with the department to hear testimony on the proposed management program. Following the public hearing, the department and each affected local government shall prepare findings on the ground water management program within ninety days. This period may be extended by the department for an additional ninety days. The findings shall evaluate the program's technical soundness, economic feasibility, and consistency with the intent of this chapter and other federal, state and local laws. The findings shall identify any revisions necessary before the program can be certified and shall contain a statement of the agency's concurrence, indicating its intent to adopt implementing policies, ordinances and programs if required, or a statement of nonconcurrence with the program if such be the case.

(2) The lead agency will consolidate the findings and present them to the advisory committee. Statements of nonconcurrence shall be resolved by the committee and the program revised if necessary.

(3) The program shall then be submitted by the ground water advisory committee to the department which shall certify that the program is consistent with the intent of this chapter.

(4) Following such certification, state agencies and affected local governments shall adopt or amend regulations, ordinances, and/or programs for implementing those provisions of the ground water management program which are within their respective jurisdictional authorities.

(5) The department, the department of social and health services and affected local governments shall be guided by the adopted program when reviewing and considering approval of all studies, plans and facilities that may utilize or impact the implementation of the ground water management program.

[Statutory Authority: RCW 90.44.400. 86-02-004 (Order DE 85-24), § 173-100-120, filed 12/20/85.]

WAC 173-100-130 Designation of ground water areas. The procedures provided in RCW 90.44.130 may be utilized by the department to designate ground water areas, subareas, or zones for the purposes described therein either in conjunction with the procedures of this chapter or independently thereof.

[Statutory Authority: RCW 90.44.400. 86-02-004 (Order DE 85-24), § 173-100-130, filed 12/20/85.]

WAC 173-100-140 Intergovernmental agreements. In order to fully implement this chapter, the department may negotiate and enter into cooperative agreements with Indian tribal governments, adjacent states and Canadian governmental agencies when a ground water management area is contiguous with or affects lands under their jurisdiction. Such cooperative agreements shall not affect the jurisdiction over any civil or criminal matters that may be exercised by any party to such an agreement. Intergovernmental agreements shall further the purposes of this chapter, and shall serve to establish a framework for intergovernmental coordination, minimize duplication, and efficiently utilize program resources to protect ground water resources.

[Statutory Authority: RCW 90.44.400. 86-02-004 (Order DE 85-24), § 173-100-140, filed 12/20/85.]

WAC 173-100-150 Appeals. All final written decisions of the department pertaining to designation of ground water management areas, certification of ground water management programs, permits, regulatory orders, and related decisions pursuant to this chapter shall be subject to review by the pollution control hearings board under chapter 43.21B RCW.

[Statutory Authority: RCW 90.44.400. 86-02-004 (Order DE 85-24), § 173-100-150, filed 12/20/85.]

WAC 173-100-160 Regulation review. The department of ecology shall initiate a review of the rules established in this chapter whenever new information, changing conditions, or statutory modifications make it necessary to consider revisions.

[Statutory Authority: Chapters 43.27A and 90.44 RCW. 88-13-037 (Order 88-11), § 173-100-160, filed 6/9/88.]

Chapter 173-124 WAC
QUINCY GROUND WATER MANAGEMENT SUBAREA AND ZONES

WAC

173-124-010	Background.
173-124-020	Purpose.
173-124-030	Authority.
173-124-040	Subarea definition.
173-124-050	Subarea zone definition.

173-124-060	Subarea map.
173-124-070	Subarea, zone, and unit distinctions.
173-124-080	Regulation review.

DISPOSITION OF SECTIONS FORMERLY CODIFIED IN THIS CHAPTER

173-124-06001	Subarea, zone, and unit distinctions. [Statutory Authority: RCW 43.21A.080, 43.27A.090 and 90.44.130. 78-05-007 (Order DE 77-36), § 173-124-060, (codified as WAC 173-124-06001), filed 4/7/78.] Repealed by 88-13-037 (Order 88-11), filed 6/9/88. Statutory Authority: Chapters 43.21A, 43.27A, 90.03 and 90.44 RCW.

WAC 173-124-010 Background. (1) On March 1, 1969, the department of water resources promulgated WAC 508-14-010 to curtail further ground water development in a defined area of the Columbia Basin, referred to as the "Quincy Basin," pending the outcome of detailed ground water investigations to determine if further appropriation of public ground waters in this area should be allowed.

(2) The extensive investigation program was to be completed no later than December 31, 1972, and thereafter procedures would be developed to insure proper allocation and management of the Quincy Basin ground water resource.

(3) Since the effective date of WAC 508-14-010, all applications to appropriate ground water in the defined Quincy Basin have been held in abeyance pending the outcome of the ground water investigations.

(4) As part of the investigation program a digital ground water model has been developed to analyze ground water conditions in most of the Columbia Basin including the Quincy Basin.

(5) Through use of this ground water model it has been possible to define with reasonable accuracy the extent of a practical ground water management unit in the Quincy Basin area.

[Order 72-24, § 173-124-010, filed 1/15/73.]

WAC 173-124-020 Purpose. The purpose of this regulation is to establish areal boundaries and depth zones for the Quincy ground water subarea as the initial step toward development of a proper ground water management program for this part of the Columbia Basin.

[Order 72-24, § 173-124-020, filed 1/15/73.]

WAC 173-124-030 Authority. This regulation is promulgated by the department of ecology under authority and procedures provided in chapters 43.21A, 90.03, and 90.44 RCW and after giving notice as provided in chapter 34.04 RCW.

[Order 72-24, § 173-124-030, filed 1/15/73.]

WAC 173-124-040 Subarea definition. "Quincy ground water subarea" shall mean those lands lying within the Columbia Basin described as follows:

Township (North)	Range (East)	Sections
17	23	1 thru 4, 11 and 12
17	24	1 thru 16
17	25	1 thru 18 and 24
17	26	1 thru 24
17	27	1 thru 24
17	28	1 thru 20
17	29	1 thru 12 and 14 thru 18
17	30	*1 thru 8, 12, and that part of 9, 10, 11, 13 and 14 lying to the right of the center line of the east low canal
17	31	*7 and that part of 5, 6, 8, 17 and 18 lying to the right of the center line of the east low canal
18	22	1, 12, and 13
18	23	1 thru 36
18	24	1 thru 36
18	25	1 thru 36
18	26	1 thru 36
18	27	1 thru 36
18	28	1 thru 36
18	29	1 thru 36
18	30	*3 thru 10, 15 thru 24, 26 thru 36 and that part of 2, 11, 13, 14 and 25 lying to the right of the center line of the east low canal
18	31	*That part of 17, 18, 19, 30, and 31 lying to the right of the center line of the east low canal
19	23	1 thru 5 and 8 thru 17, 20 thru 29 and 31 thru 36
19	24	1 thru 36
19	25	1 thru 36
19	26	1 thru 36
19	27	1 thru 36
19	28	1 thru 36
19	29	*5 thru 8, 17 thru 21, 28 thru 33, and that part of 4, 9, 15, 16, 22, 23, 27, 34, 35 and 36 lying to the right of the center line of the east low canal
19	30	*That part of 28 and 31 thru 35 lying to the right of the center line of the east low canal
20	23	1 thru 5 and 8 thru 17, 20 thru 29 and 32 thru 36
20	24	1 thru 36
20	25	1 thru 36
20	26	1 thru 36
20	27	1 thru 36
20	28	1 thru 36
20	29	*19, 20, 29 thru 32, and that part of 6, 7, 16, 17, 18, 21, 28, and 33 lying to the right of the center line of the east low canal
21	23	25 thru 28 and 32 thru 36
21	24	25 thru 36
21	25	24 thru 36
21	26	1 thru 4, 9 thru 16 and 19 thru 36
21	27	1 thru 36
21	28	*5 thru 9, 13 thru 36 and that part of 3, 4, 9, 10, 11 and 12 lying to the right of the center line of the east low canal
21	29	*That part of 7, 8, 17, 18, 19, 30, and 31 lying to the right of the center line of the east low canal
22	26	2, 10 thru 16, 21 thru 28 and 33 thru 36
22	27	1 thru 4 and 7 thru 36
22	28	*1 thru 11, 31 and that part of 18, 19, 29, 30, 32, and 33 lying to the right of the center line of the east low canal
23	27	34 thru 36
23	28	31 thru 36

*Right and left sides are determined by looking in the downstream direction or direction of flow.

[Order 72-24, § 173-124-040, filed 1/15/73.]

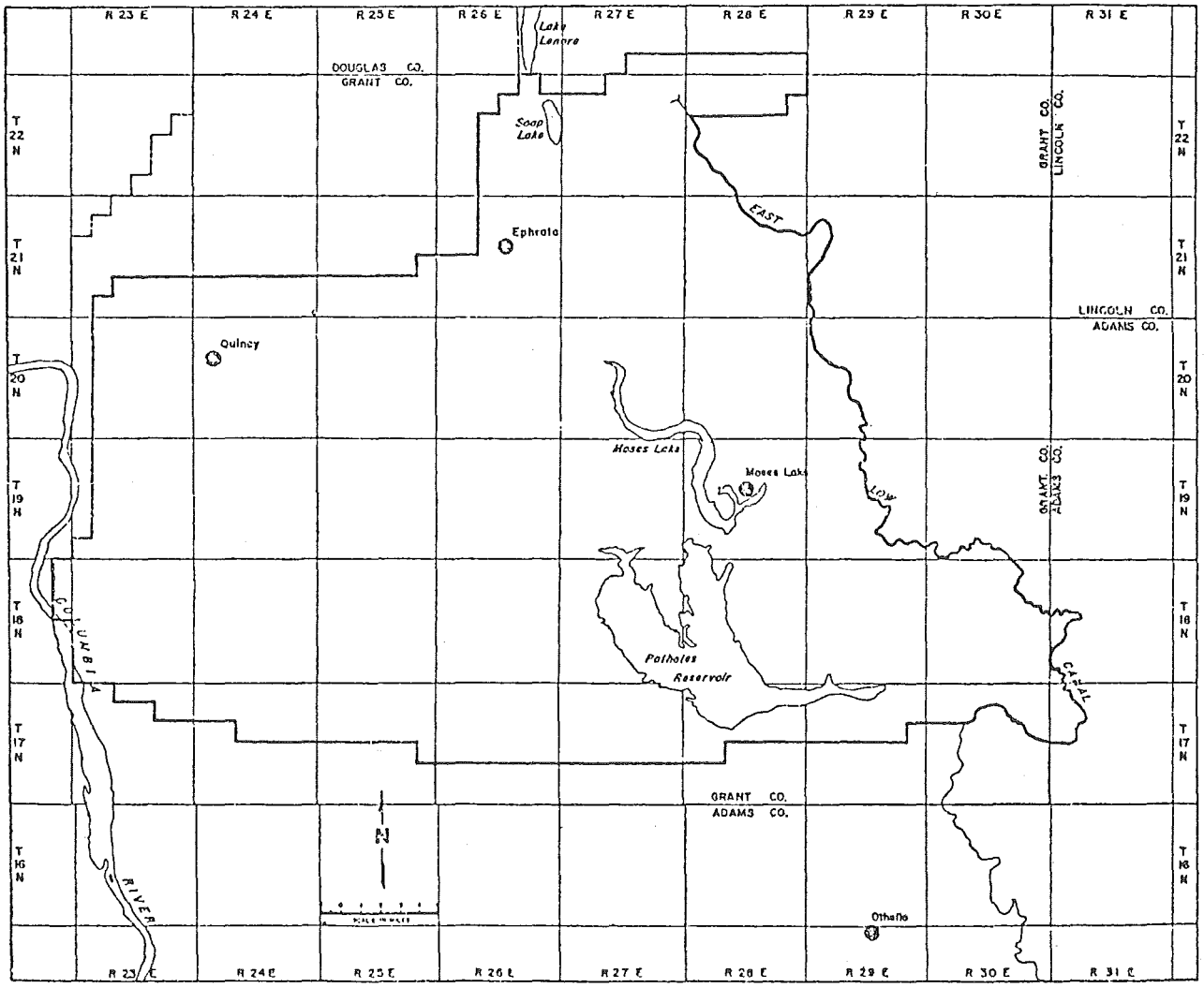
WAC 173-124-050 Subarea zone definition. (1) "Quincy unconsolidated zone" shall mean those rock units in the Quincy ground water subarea lying between ground surface and the top of the uppermost basalt flow.

(2) "Quincy basalt zone" shall mean those rock units in the Quincy ground water subarea consisting of basalt flows of tertiary age.

[Order 72-24, § 173-124-050, filed 1/15/73.]

WAC 173-124-060 Subarea map. "Quincy ground water subarea" shall include those lands that lie within the heavy outline shown on the following map:

QUINCY GROUND WATER SUBAREA



[Order 72-24, § 173-124-060, filed 1/15/73.]

WAC 173-124-070 Subarea, zone, and unit distinctions. The Quincy unconsolidated zone and the Quincy basalt zone, defined at WAC 173-124-050, are separate and distinct depth zones, as that term is used in chapter 90.44 RCW. The Quincy unconsolidated zone and the Quincy basalt zone are different than the Quincy shallow management unit and the Quincy deep management unit, which are defined at WAC 173-134-020.

The horizontal boundaries of the Quincy depth zones and the Quincy management units are identical to the exterior boundaries of the Quincy ground water subarea, and no Quincy depth zone or management unit extends beyond those boundaries, for comprehensive water management purposes. Neither does any depth zone of the Odessa ground water subarea, as defined at chapter 173-130 WAC, extend beyond the exterior boundaries of the Odessa ground water subarea, as those are defined and indicated at chapter 173-128 WAC. The bodies of ground water contained within the exterior boundaries of the Quincy ground water subarea are considered to be separate and distinct from the bodies of ground water contained within the exterior boundaries of the Odessa ground water subarea, which is significantly different than the Quincy ground water subarea in various respects.

This regulation is adopted to clarify the differences between the Quincy ground water subarea and the Odessa ground water subarea, and the differences among depth zones

and management units. This regulation merely restates what the department of ecology consistently has understood to be the meaning and effect of this chapter and related chapters, notwithstanding any other understanding by the public or any other agency or board, federal or state.

[Statutory Authority: Chapters 43.21A, 43.27A, 90.03 and 90.44 RCW. 88-13-037 (Order 88-11), § 173-124-070, filed 6/9/88.]

WAC 173-124-080 Regulation review. The department of ecology shall initiate a review of the rules established in this chapter whenever new information, changing conditions, or statutory modifications make it necessary to consider revisions.

[Statutory Authority: Chapters 43.21A, 43.27A, 90.03 and 90.44 RCW. 88-13-037 (Order 88-11), § 173-124-080, filed 6/9/88.]

Chapter 173-128A WAC

ODESSA GROUND WATER MANAGEMENT SUBAREA

WAC

173-128A-010	Authority.
173-128A-020	Background.
173-128A-030	Purpose.
173-128A-040	Subarea definition.
173-128A-050	Subarea map.
173-128A-060	Regulation review.

WAC 173-128A-010 Authority. This regulation is promulgated by the department of ecology under authority and procedures provided in chapters 34.04, 43.21A, 90.03, and 90.44 RCW.

[Statutory Authority: RCW 43.21A.060, 43.21A.080, 43.27A.090, 90.44.130 and 90.54.040(2). 82-14-041 (Order DE 82-23), § 173-128A-010, filed 6/30/82. Formerly WAC 173-128-030.]

WAC 173-128A-020 Background. (1) Since 1967, the segment of the Columbia basin ground water system centered around the community of Odessa has experienced a steady decline in ground water levels.

(2) Spurred by local concern and foreseeable management problems, the department of water resources (now department of ecology) closed an area of approximately 1,100 square miles to the drilling of large producing water wells and initiated a detailed investigation of ground water conditions in the Odessa basin.

(3) As a result of this investigation, a digital ground water model of the Odessa basin was developed and used in 1974 and 1975 to predict the effect of additional ground water withdrawals on existing water level declines.

(4) In 1975, the department expanded its ground water monitoring program and discontinued use of the predictive model.

(5) The expanded monitoring program, with additional data on the actual effects of pumping, included wells south of the subarea which showed ground water declines similar in magnitude to those inside the subarea.

[Statutory Authority: RCW 43.21A.060, 43.21A.080, 43.27A.090, 90.44.130 and 90.54.040(2). 82-14-041 (Order DE 82-23), § 173-128A-020, filed 6/30/82. Formerly WAC 173-128-010.]

WAC 173-128A-030 Purpose. The purpose of this regulation is to expand the boundaries of the Odessa ground water subarea as originally set forth in chapter 173-128 WAC.

[Statutory Authority: RCW 43.21A.060, 43.21A.080, 43.27A.090, 90.44.130 and 90.54.040(2). 82-14-041 (Order DE 82-23), § 173-128A-030, filed 6/30/82. Formerly WAC 173-128-020.]

WAC 173-128A-040 Subarea definition. "Odessa ground water subarea" shall mean those lands lying within the Columbia Basin described as follows:

Township (North)	Range (East)	Sections
13	31	1 thru 12
13	32	1 thru 12
14	31	*1 thru 6, 8 thru 17, 19 thru 36, and that part of 7 and 18 lying to the left of the center line of the East Low Canal
14	32	*1 thru 36
15	30	*1, and that part of 2, 11, 12 lying to the left of the center line of the East Low Canal
15	31	*1 thru 29, 32 thru 36, and that part of 30 and 31 lying to the left of the center line of the East Low Canal
15	32	1 thru 36
15	33	1 thru 36
16	30	*1 thru 4, 10 thru 14, 23 thru 25, 36, and that part of 5, 6, 8, 9, 15, 16, 21, 22, 26, 27, 28, 34, and 35 lying to the left of the center line of the East Low Canal
16	31	1 thru 36
6	32	1 thru 36
16	33	1 thru 36
16	34	1 thru 22
16	35	1 thru 18
16	36	6 and 7
17	30	*15, 16, 21 thru 28, 33 thru 36, and that part of 8 thru 11, 13, 14, 17, 20, 29, 31, and 32 lying to the left of the center line of the East Low Canal
17	31	*1 thru 4, 9 thru 16, 19 thru 36, and that part of 5, 6, 8, 17 and 18 lying to the left of the center line of the East Low Canal
17	32	1 thru 36
17	33	1 thru 36
17	34	1 thru 36
17	35	1 thru 36
17	36	5 thru 8, 17 thru 20, 30 and 31
18	30	*1, 12 and that part of 2, 11, 13, and 14 lying to the left of the center line of the East Low Canal
18	31	*1 thru 16, 20 thru 29, 32 thru 36, and that part of 17, 18, 19, 30, and 31 lying to the left of the center line of the East Low Canal
18	32	1 thru 36
18	33	1 thru 36
18	34	1 thru 36
18	35	1 thru 36
18	36	4 thru 9, 16 thru 21, and 28 thru 33
19	29	*1 thru 3, 10 thru 14, 24, 25, and that part of 3, 4, 9, 10, 15, 16, 22, 23, 26, 27, 34, 35, and 36 lying to the left of the center line of the East Low Canal
19	30	*1 thru 27, 29, 30, 36 and that part of 28 and 31 thru 35 lying to the left of the center line of the East Low Canal
19	31	1 thru 36

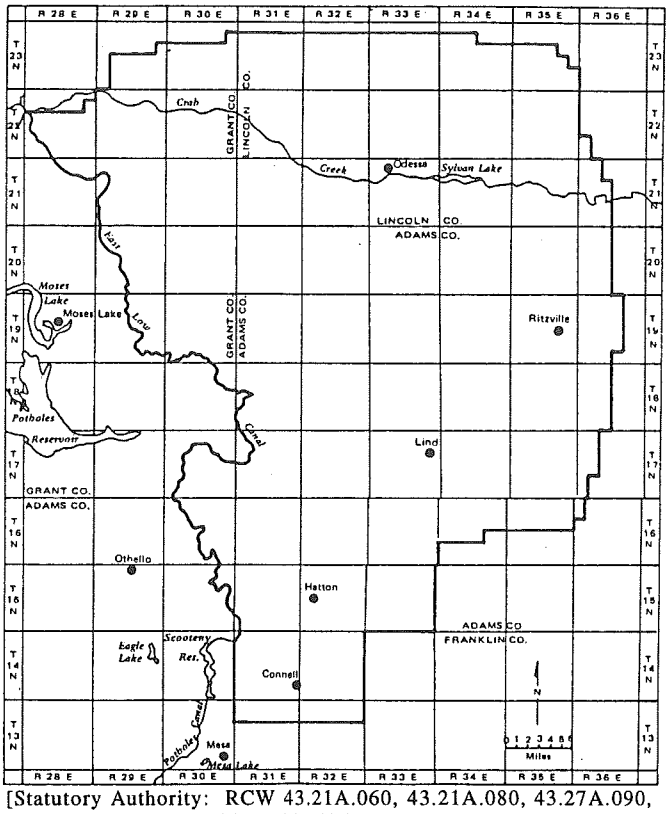
Township (North)	Range (East)	Sections
19	32	1 thru 36
19	33	1 thru 36
19	34	1 thru 36
19	35	1 thru 36
19	36	3 thru 10, 15 thru 22 and 27 thru 33
20	29	*1 thru 5, 8 thru 15, 22 thru 27, 34 thru 36 and that part of 6, 7, 16, 17, 18, 21, 28 and 33 lying to the left of the center line of the East Low Canal
20	30	1 thru 36
20	31	1 thru 36
20	32	1 thru 36
20	33	1 thru 36
20	34	1 thru 36
20	35	1 thru 36
20	36	4 thru 9, 16 thru 21, and 28 thru 33
21	28	*1, 2, and that part of 3, 4, 10, 11 and 12 lying to the left of the center line of the East Low Canal
21	29	*1 thru 6, 9 thru 16, 20 thru 29, 32 thru 36 and that part of 7, 8, 17, 18, 19, 30 and 31 lying to the left of the center line of the East Low Canal
21	30	1 thru 36
21	31	1 thru 36
21	32	1 thru 36
21	33	1 thru 36
21	34	1 thru 36
21	35	1 thru 36
21	36	5 thru 8, 16 thru 21, and 28 thru 33
22	28	*12 thru 17, 20 thru 28, 34 thru 36 and that part of 18, 19, 29, 30, 32 and 33 lying to the left of the center line of the East Low Canal
22	29	1 thru 36
22	30	1 thru 36
22	31	1 thru 36
22	32	1 thru 36
22	33	1 thru 36
22	34	1 thru 36
22	35	1 thru 36
22	36	30 and 31
23	29	13, 20 thru 29, and 32 thru 36
23	30	12 thru 36
23	31	7 thru 36
23	32	7 thru 36
23	33	7 thru 36
23	34	7 thru 9 and 13 thru 36
23	35	15 thru 23 and 25 thru 36

* Right and left sides are determined by looking in the downstream or flow direction.

[Statutory Authority: RCW 43.21A.060, 43.21A.080, 43.27A.090, 90.44.130 and 90.54.040(2). 82-14-041 (Order DE 82-23), § 173-128A-040, filed 6/30/82. Formerly WAC 173-128-040.]

WAC 173-128A-050 Subarea map. "Odessa ground water subarea" shall include those lands that lie within the heavy outline shown on the following map:

ODESSA GROUND–WATER SUBAREA



[Statutory Authority: RCW 43.21A.060, 43.21A.080, 43.27A.090, 90.44.130 and 90.54.040(2). 82-14-041 (Order DE 82-23), § 173-128A-050, filed 6/30/82. Formerly WAC 173-128-050.]

WAC 173-128A-060 Regulation review. The department of ecology shall initiate a review of the rules established in this chapter whenever new information, changing conditions, or statutory modifications make it necessary to consider revisions.

[Statutory Authority: Chapters 43.21A, 43.27A, 90.03 and 90.44 RCW. 88-13-037 (Order 88-11), § 173-128A-060, filed 6/9/88.]

Chapter 173-130A WAC
ODESSA GROUND WATER SUBAREA MANAGEMENT POLICY

WAC

173-130A-010	Authority.
173-130A-020	Background.
173-130A-030	Definitions.
173-130A-040	Purpose.
173-130A-050	Exemptions.
173-130A-060	Rate of decline in water level to be controlled.
173-130A-070	Maximum lowering of the water table.
173-130A-080	Regulation of withdrawal of ground water.
173-130A-090	Notice of regulation.
173-130A-100	Applications for withdrawal of ground water.
173-130A-110	Distance of wells from East Low Canal.
173-130A-120	Ground water mound—Columbia Basin project interests.
173-130A-130	Irrigation season.
173-130A-140	Airlines.
173-130A-150	Water duty.
173-130A-160	Development schedule.
173-130A-170	Casing and sealing.
173-130A-180	Reworking wells.

173-130A-190 Bore hole information.
173-130A-200 Acreage expansion program.
173-130A-210 General implementation.
173-130A-215 Enforcement.
173-130A-217 Appeals.
173-130A-220 Regulation review.

WAC 173-130A-010 Authority. This regulation is promulgated by the department of ecology under authority and procedures provided in chapters 34.04, 43.21A. 90.03 and 90.44 RCW.

[Statutory Authority: RCW 43.21A.060, 43.21A.080, 43.27A.090, 90.44.130 and 90.54.040(2). 82-16-103 (Order DE 82-27), § 173-130A-010, filed 8/4/82. Formerly WAC 173-130-020.]

WAC 173-130A-020 Background. The Odessa ground water subarea was established and the boundaries set forth in chapter 173-128A WAC.

[Statutory Authority: RCW 43.21A.060, 43.21A.080, 43.27A.090, 90.44.130 and 90.54.040(2). 82-16-103 (Order DE 82-27), § 173-130A-020, filed 8/4/82. Formerly WAC 173-130-010.]

WAC 173-130A-030 Definitions. For the purposes of this chapter, the following definitions shall be used:

(1) "Water table" shall mean the surface formed by mapping the altitude at which water stands in wells.

(2) "Priority" shall mean the date of receipt by the department of ecology or its predecessor of an acceptable application to appropriate public ground water.

(3) "Department" shall mean the department of ecology.

(4) "Bore hole information" shall include data required to determine the extent and nature of subsurface geologic and hydrologic properties. Examples of bore hole information includes data contained on a completed department water well report form, all or a portion of a suite of geophysical logs such as resistivity, flow, caliper, and television video scanning.

[Statutory Authority: RCW 43.21A.060, 43.21A.080, 43.27A.090, 90.44.130 and 90.54.040(2). 82-16-103 (Order DE 82-27), § 173-130A-030, filed 8/4/82. Formerly WAC 173-130-030.]

WAC 173-130A-040 Purpose. The purpose of this regulation is to provide a procedure for managing ground water within the Odessa ground water subarea to insure the maintenance of a safe sustaining yield from the ground water body within a reasonable and feasible pumping lift.

[Statutory Authority: RCW 43.21A.060, 43.21A.080, 43.27A.090, 90.44.130 and 90.54.040(2). 82-16-103 (Order DE 82-27), § 173-130A-040, filed 8/4/82. Formerly WAC 173-130-040.]

WAC 173-130A-050 Exemptions. The following shall not be subject to this management regulation:

(1) Wells from which the withdrawal is less than 5,000 gallons per day;

(2) Wells drilled under prior authorization which were defined as "Zone C" wells in WAC 173-130-030(3), now repealed.

[Statutory Authority: RCW 43.21A.060, 43.21A.080, 43.27A.090, 90.44.130 and 90.54.040(2). 82-16-103 (Order DE 82-27), § 173-130A-050, filed 8/4/82.]

WAC 173-130A-060 Rate of decline in water level to be controlled. The rate of decline in the water level will be limited to a total amount of thirty feet in three consecutive years. In the case of a new well, the base time shall commence in the spring following the first season of irrigation use.

[Statutory Authority: RCW 43.21A.060, 43.21A.080, 43.27A.090, 90.44.130 and 90.54.040(2). 82-16-103 (Order DE 82-27), § 173-130A-060, filed 8/4/82. Formerly WAC 173-130-060.]

WAC 173-130A-070 Maximum lowering of the water table. These regulations will be used to prevent the spring static water table, as measured prior to commencement of pumping for irrigation, from lowering more than three hundred feet below the altitude of the static water level as it existed in the spring of 1967.

[Statutory Authority: RCW 43.21A.060, 43.21A.080, 43.27A.090, 90.44.130 and 90.54.040(2). 82-16-103 (Order DE 82-27), § 173-130A-070, filed 8/4/82. Formerly WAC 173-130-070.]

WAC 173-130A-080 Regulation of withdrawal of ground water. (1) Upon complaint from a water right holder that the water level in the associated well or wells is being drawn down at a rate in excess of thirty feet in three years as set forth in WAC 173-130A-060 as a primary result of pumping by subsequent appropriators, the department shall evaluate the complaint and take appropriate regulatory action, to the extent practicable, to protect the rights of the prior appropriator.

(2) Whenever the department has reason to believe that the provision of WAC 173-130A-070 is going to be violated, regulatory action to limit withdrawals in the affected area will be initiated according to the procedure outlined in WAC 173-130A-090. Such regulation shall conform to the priority of the pertinent, valid rights and shall prevail on an annual basis until the condition no longer exists, unless the aggregate withdrawal is decreased by mutual agreement of the affected water right holders pursuant to RCW 90.44.180.

(3) The department shall take regulatory action, to the extent necessary, to assure compliance with water right conditions.

[Statutory Authority: RCW 43.21A.060, 43.21A.080, 43.27A.090, 90.44.130 and 90.54.040(2). 82-16-103 (Order DE 82-27), § 173-130A-080, filed 8/4/82. Formerly WAC 173-130-080.]

WAC 173-130A-090 Notice of regulation. (1) Notice of regulation shall be provided to each water right holder within the area identified pursuant to WAC 173-130A-080(2) by certified mail on or before May 1 of each year when regulation of withdrawals is contemplated for the next calendar year. Said notice shall also provide for a public meeting within thirty days to be held in the affected area to discuss proposed regulatory action.

(2) Within sixty days following this public meeting, departmental orders will be sent to those water right holders to be regulated.

[Statutory Authority: RCW 43.21A.060, 43.21A.080, 43.27A.090, 90.44.130 and 90.54.040(2). 82-16-103 (Order DE 82-27), § 173-130A-090, filed 8/4/82. Formerly WAC 173-130-090.]

WAC 173-130A-100 Applications for withdrawal of ground water. All applications for permits to appropriate ground water from within the Odessa ground water subarea shall be analyzed in order of priority to determine the calculated effect that the requested rate and volume of withdrawal will have on existing ground water declines. No permit will be issued for withdrawals which calculations show will cause the conditions of WAC 173-130A-060 or 173-130A-070 to be exceeded at any location within the subarea.

[Statutory Authority: RCW 43.21A.060, 43.21A.080, 43.27A.090, 90.44.130 and 90.54.040(2). 82-16-103 (Order DE 82-27), § 173-130A-100, filed 8/4/82. Formerly WAC 173-130-140.]

WAC 173-130A-110 Distance of wells from East Low Canal. No well may be drilled closer than one-quarter mile to the centerline of the East Low Canal.

[Statutory Authority: RCW 43.21A.060, 43.21A.080, 43.27A.090, 90.44.130 and 90.54.040(2). 82-16-103 (Order DE 82-27), § 173-130A-110, filed 8/4/82. Formerly WAC 173-130-170.]

WAC 173-130A-120 Ground water mound—Columbia Basin project interests. Irrigation of Columbia Basin project lands lying westerly of the East Low Canal and canal leakage have caused development of a ground water mound lying generally under the canal. The retention of existing water levels under the canal is necessary to maintain the present water table gradient toward the Potholes Reservoir to allow the recapture and utilization of artificially stored ground water (see order of the department of ecology, under Docket No. 74-772, dated the 8th day of January, 1975). All applications for permit within the following described area will be evaluated on a case-by-case basis consistent with this chapter. Additionally, the potential effects of the proposed appropriation on existing rights including protection of the ground water mound will be determined. All new permits will be conditioned to assure retention of the existing water levels under the East Low Canal.

Twp N	Rge E	Section
17	30	15, 16, 23, 24 and all those portions of 9 through 11, 13 and 14 lying southerly of the East Low Canal.
	31	3, 4, 9 through 11, 14 through 16, 19 through 23, and those portions of 5, 6, 8, and 17 lying easterly of the East Low Canal.
18	30	1, 12, and all those portions of 2, 11, 13 and 14 lying easterly of East Low Canal.
	31	4 through 10, 15, 16, 21, 22, 27 through 29, 32 through 34, and all those portions of 17 through 20, 30 and 31 lying northerly and easterly of the East Low Canal.
19	29	1 through 3, 10 through 14, 24 through 26, and all those portions of 4, 9, 15, 16, 22, 23, 27, and 34 through 36 lying easterly and northerly of the East Low Canal.
	30	19 through 23, 25 through 27, 29, 30, 36, and all those portions of 28, 31 through 35 lying northerly and easterly of the East Low Canal.
	31	30 and 31
20	29	27, 35, and all those portions of 21, 28, 33 and 34 lying easterly of the East Low Canal.

[Statutory Authority: RCW 43.21A.060, 43.21A.080, 43.27A.090, 90.44.130 and 90.54.040(2). 82-16-103 (Order DE 82-27), § 173-130A-120, filed 8/4/82.]

WAC 173-130A-130 Irrigation season. The irrigation season for withdrawal of ground water in the Odessa ground water subarea shall be from February 1 to November 30, each year. However, the department recognizes that conditions will vary from year to year, making application of water to the land necessary during December and/or January in some years. Permission to withdraw ground water during December and January may be granted by the department upon showing of a need by individual permit or certificate holders and if not inconsistent with the regulatory program of this chapter.

[Statutory Authority: RCW 43.21A.060, 43.21A.080, 43.27A.090, 90.44.130 and 90.54.040(2). 82-16-103 (Order DE 82-27), § 173-130A-130, filed 8/4/82. Formerly WAC 173-130-195.]

WAC 173-130A-140 Airlines. An airline and pressure gauge shall be installed and maintained in operating condition on all new or reworked wells and equipped with a standard tire valve, placed in an accessible location. The airline shall extend from land surface to the top of the pump bowls. The total length of the airline and any changes in length shall be reported to the department.

[Statutory Authority: RCW 43.21A.060, 43.21A.080, 43.27A.090, 90.44.130 and 90.54.040(2). 82-16-103 (Order DE 82-27), § 173-130A-140, filed 8/4/82.]

WAC 173-130A-150 Water duty. The duty of water issued in permits for agricultural irrigation shall be not more than 2.5 acre feet per acre per calendar year.

[Statutory Authority: RCW 43.21A.060, 43.21A.080, 43.27A.090, 90.44.130 and 90.54.040(2). 82-16-103 (Order DE 82-27), § 173-130A-150, filed 8/4/82.]

WAC 173-130A-160 Development schedule. All new permits issued will require beginning of construction of the authorized well(s) within two years after permit issuance. Beginning of construction means that the well drilling has been started and is being actively pursued toward completion. No extensions of time will be granted to this schedule. Viola-

tion of this requirement will result in cancellation of the related permits.

[Statutory Authority: RCW 43.21A.060, 43.21A.080, 43.27A.090, 90.44.130 and 90.54.040(2). 82-16-103 (Order DE 82-27), § 173-130A-160, filed 8/4/82.]

WAC 173-130A-170 Casing and sealing. In order to protect existing shallow domestic and stock water wells, and springs, casing and sealing requirements will be determined on a case-by-case basis and included as a provision on all new permits issued. New permits will also be conditioned to prohibit cascading water in wells in accordance with chapter 173-160 WAC (Minimum standards for construction and maintenance of water wells). Sealing of required casing shall consist of filling the annular space between casing and well bore with cement grout placed by pumping from the bottom of the casing to land surface. Alternative methods to provide the same protection afforded by casing and sealing may be submitted to the department for review and shall only be used if approved in writing by the department prior to well completion.

[Statutory Authority: RCW 43.21A.060, 43.21A.080, 43.27A.090, 90.44.130 and 90.54.040(2). 82-16-103 (Order DE 82-27), § 173-130A-170, filed 8/4/82.]

WAC 173-130A-180 Reworking wells. Any well which is reworked shall be constructed to comply with the casing and sealing provisions of WAC 173-130A-170. Reworking shall include, but not be limited to, reaming to enlarge well diameter or deepening.

[Statutory Authority: RCW 43.21A.060, 43.21A.080, 43.27A.090, 90.44.130 and 90.54.040(2). 82-16-103 (Order DE 82-27), § 173-130A-180, filed 8/4/82. Formerly WAC 173-130-155.]

WAC 173-130A-190 Bore hole information. It shall be the responsibility of the owner of all new or reworked wells drilled in the Odessa ground water subarea to provide the department of ecology with such logs as the department may reasonably require.

[Statutory Authority: RCW 43.21A.060, 43.21A.080, 43.27A.090, 90.44.130 and 90.54.040(2). 82-16-103 (Order DE 82-27), § 173-130A-190, filed 8/4/82. Formerly WAC 173-130-160.]

WAC 173-130A-200 Acreage expansion program. (1) Water right certificate holders who wish to expand their authorized irrigated acreage while not increasing actual historic withdrawal rates in gallons per minute or acre feet per year, within the maximum limits of their water right, may submit a request in writing to the department at least four months prior to initiation of irrigation. Such request shall include documentation substantiating actual quantities applied to a beneficial use within authorized acreage for a minimum of the three previous consecutive irrigation seasons. This documentation shall consist of accurate flow meter readings, electrical consumption which has been converted to actual acre footage withdrawn, or any other data acceptable to the department.

(2) The acreage expansion, if authorized, will allow the certificate holder to apply the average of the quantity of water beneficially used during the past three consecutive years to more land.

(3) Where the acreage expansion program is continuous from year to year, the initial documentation of beneficial use of water shall apply to each subsequent year.

(4) New wells will not be permitted to be drilled as part of this program. Every well authorized for use under this program must be equipped with an accurately operating flow meter before acreage expansion can be implemented.

(5) By December 31 of each year, the water user shall submit in writing to the department a statement of the total water used, in acre feet, under the acreage expansion program for the completed irrigation season.

(6) The acreage expansion program will be administered as a temporary change through an annual letter of authorization. No permanent amendment or change in any water right certificate shall be issued as part of this program.

The penalty for noncompliance with the provisions of this section shall include, but not be limited to, termination from the acreage expansion program for one calendar year.

[Statutory Authority: RCW 43.21A.060, 43.21A.080, 43.27A.090, 90.44.130 and 90.54.040(2). 82-16-103 (Order DE 82-27), § 173-130A-200, filed 8/4/82.]

WAC 173-130A-210 General implementation. The department recognizes the uncertainties associated with ground water occurrence and water well construction, both being dependent in large part on the geologic and hydrologic characteristics of the aquifer materials underlying a specific proposed well site. Therefore, the department shall endeavor to implement this chapter in a reasonable and practical manner consistent with its purpose.

[Statutory Authority: RCW 43.21A.060, 43.21A.080, 43.27A.090, 90.44.130 and 90.54.040(2). 82-16-103 (Order DE 82-27), § 173-130A-210, filed 8/4/82.]

WAC 173-130A-215 Enforcement. In enforcement of this chapter, the department of ecology may impose such sanctions as are appropriate under authorities vested in it, including but not limited to the issuance of regulatory orders under RCW 43.27A.190 and civil penalties under RCW 90.03.600.

[Statutory Authority: Chapters 43.21A, 43.27A, 90.03 and 90.44 RCW. 88-13-037 (Order 88-11), § 173-130A-215, filed 6/9/88.]

WAC 173-130A-217 Appeals. All final written decisions of the department of ecology pertaining to permits, regulatory orders, and related decisions made pursuant to this chapter shall be subject to review by the pollution control hearings board in accordance with chapter 43.21B RCW.

[Statutory Authority: Chapters 43.21A, 43.27A, 90.03 and 90.44 RCW. 88-13-037 (Order 88-11), § 173-130A-217, filed 6/9/88.]

WAC 173-130A-220 Regulation review. The department of ecology shall initiate a review of the rules established in this chapter whenever new information, changing conditions, or statutory modifications make it necessary to consider revisions.

[Statutory Authority: Chapters 43.21A, 43.27A, 90.03 and 90.44 RCW. 88-13-037 (Order 88-11), § 173-130A-220, filed 6/9/88. Statutory Authority:

RCW 43.21A.060, 43.21A.080, 43.27A.090, 90.44.130 and 90.54.040(2). 82-16-103 (Order DE 82-27), § 173-130A-220, filed 8/4/82. Formerly WAC 173-130-200.]

Chapter 173-132 WAC
DUCK LAKE GROUND WATER MANAGEMENT SUBAREA

WAC

173-132-010	Background.
173-132-020	Purpose.
173-132-030	Authority.
173-132-040	Subarea definition.
173-132-050	Subarea map.
173-132-060	Regulation review.

WAC 173-132-010 Background. (1) Through well data collected since 1958 and refraction seismic surveys conducted in 1970 and 1971, the department of ecology has identified a semiclosed ground water basin in the area of Duck Lake in Okanogan County, Washington.

(2) The principal aquifer in this area consists of glacial and fluvial sands and gravels that lie unconformably over metamorphic and igneous bedrock.

(3) Natural recharge to the aquifer occurs primarily through ground water migration from Johnson Creek Valley which lies northwest of the Duck Lake basin.

(4) The aquifer is also artificially recharged through waters diverted to Duck Lake from Salmon and Johnson creeks by the Okanogan irrigation district and from waters incidental to irrigation of project lands.

(5) Since the basin retains substantial quantities of artificially stored ground water, in accordance with chapter 90.44 RCW it has been recommended that the Duck Lake aquifer be designated as a ground water subarea.

[Order DE 74-24, § 173-132-010, filed 10/18/74.]

WAC 173-132-020 Purpose. The purpose of this regulation is to establish areal boundaries for the Duck Lake ground water subarea as the initial step toward development of an appropriate ground water management program for this area.

[Order DE 74-24, § 173-132-020, filed 10/18/74.]

WAC 173-132-030 Authority. This regulation is promulgated by the department of ecology under authorities and procedures provided in chapters 43.21A, 90.03 and 90.44 RCW and after giving notice as provided in chapter 34.04 RCW.

[Order DE 74-24, § 173-132-030, filed 10/18/74.]

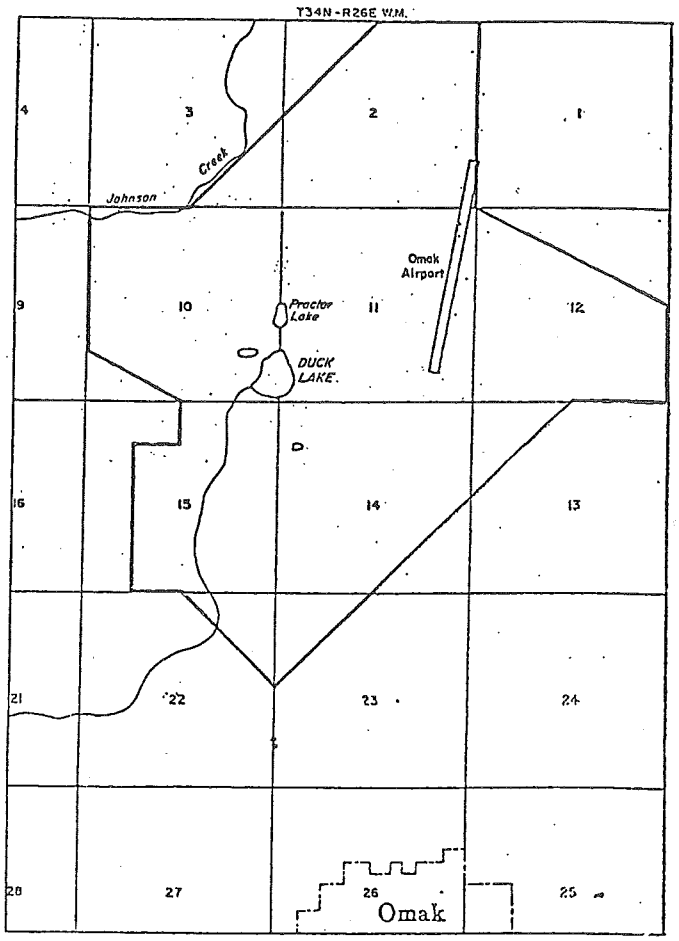
WAC 173-132-040 Subarea definition. "Duck Lake ground water subarea" shall mean those lands lying within Okanogan County described as follows:

Beginning at the west quarter corner of Sec. 23; thence northeast through the north quarter corner of Sec. 23 and the east quarter corner of Sec. 14 to the north quarter corner of Sec. 13; thence east to the northeast corner of Sec. 13; thence north to the east quarter corner of Sec. 12; thence northwest to the southeast corner of Sec. 2; thence northwest to the center of the northwest quarter of Sec. 2; thence southwest through the west quarter corner of Sec. 2 to the south quarter corner of Sec. 3; thence west to the southwest corner of Sec. 3; thence south along the west line of Sec. 10 to the "bedrock" exposure which lies approximately 1,300 feet north from the southwest corner of Sec. 10; thence southeasterly along the "bedrock" to the south quarter corner of Sec. 10; thence south 1,320 feet; thence west 1,320 feet to the center of the northwest quarter of Sec. 15; thence south 3,960 feet to the south line of Sec. 15; thence east to the south quarter corner of Sec. 15; thence southeast to the point of beginning; ALL in T. 34 N., R. 26 E.W.M., Okanogan County.

[Order DE 77-3, § 173-132-040, filed 4/21/77; Order DE 74-24, § 173-132-040, filed 10/18/74.]

WAC 173-132-050 Subarea map. "Duck Lake ground water subarea" shall include those lands that lie within the heavy outline shown on the following map:

DUCK LAKE GROUND WATER SUBAREA



[Order DE 74-24, § 173-132-050, filed 10/18/74.]

WAC 173-132-060 Regulation review. The department of ecology shall initiate a review of the rules established in this chapter whenever new information, changing conditions, or statutory modifications make it necessary to consider revisions.

[Statutory Authority: Chapters 43.21A, 43.27A, 90.03 and 90.44 RCW. 88-13-037 (Order 88-11), § 173-132-060, filed 6/9/88.]

Chapter 173-134A WAC
QUINCY GROUND WATER SUBAREA MANAGEMENT POLICY

WAC

173-134A-010 Authority.
173-134A-020 Background.
173-134A-030 Purpose.
173-134A-040 Definitions.
173-134A-050 Management and regulation.
173-134A-060 Withdrawal of waters of deep management unit.
173-134A-070 Public ground water permit amendments.
173-134A-080 Regulation of waters of the shallow management unit—Permit requirements.
173-134A-085 Applicability.
173-134A-090 Responsibility for water management—Designation of critical management areas.
173-134A-100 Establishment of a technical committee.
173-134A-110 Request for protection of interest.
173-134A-120 Exemptions.
173-134A-130 Agreements.
173-134A-140 Existing laws and rights.
173-134A-150 Regulation review.
173-134A-160 Relinquishments—Public ground water.
173-134A-165 Enforcement.
173-134A-170 Appeals.

WAC 173-134A-010 Authority. This chapter is promulgated by the department of ecology under authority and procedures provided in chapters 34.04, 43.21A, 90.03, and 90.44 RCW.

[Statutory Authority: RCW 43.21A.060, 43.21A.080, 43.27A.090, 90.44.130, 90.54.040(2) and chapter 90.03 RCW. 83-12-060 (Order DE 83-10), § 173-134A-010, filed 6/1/83. Formerly chapter 173-134 WAC.]

WAC 173-134A-020 Background. The Quincy ground water subarea was duly established and the boundaries were set forth in chapter 173-124 WAC on January 15, 1973. Management rules for the Quincy subarea were then adopted on January 9, 1975, as chapter 173-134 WAC and amended on July 26, 1979.

The department has managed the ground waters within the Quincy subarea since that time in accordance with those rules.

The following information is provided as a background to assist in understanding this chapter.

By the end of the 1973 irrigation season (in October), there were approximately 3,493,142 acre-feet of imported waters stored underground in the Quincy ground water subarea. These imported waters are derived from the activities of the bureau and the Columbia Basin project. Most of the imported water is located in the shallow management unit where it comingles with naturally occurring public ground waters.

The general pattern of flow of ground water in the shallow management unit is toward Potholes Reservoir, a facility of the Columbia Basin project.

By order of the department of ecology, under Docket No. 74-772, dated the 8th day of January, 1975, declarations of artificially stored waters of the United States Bureau of Reclamation were accepted for the Quincy subarea and zones. There are no other accepted declarations relating to the Quincy subarea and zones.

Based on the best information available to the department in 1983, all waters naturally supplied to the Quincy Basin ground water system have been allocated to permits or certificates under state law. Of the aggregate thus allocated, it appears that because of nonuse, small additional amounts of such water can be appropriated without overdraft.

[Statutory Authority: RCW 43.21A.060, 43.21A.080, 43.27A.090, 90.44.130, 90.54.040(2) and chapter 90.03 RCW. 83-12-060 (Order DE 83-10), § 173-134A-020, filed 6/1/83. Formerly WAC 173-134-030.]

WAC 173-134A-030 Purpose. The purpose of this chapter is to set forth rules of the department of ecology for the administration of all ground waters within the Quincy ground water subarea, including among others, commingled public ground waters and artificially stored ground waters. This chapter replaces chapter 173-134 WAC. The rules established herein set forth the regulatory and management program for these waters and all such waters shall be authorized for withdrawal and otherwise regulated in accordance with the provisions hereof. This state program is designated to protect both the public interest and private rights and interests in such waters and shall be implemented in a spirit of cooperation with affected persons and entities, public and private, including the holder of a declaration accepted by the department pursuant to RCW 90.44.130.

[Statutory Authority: RCW 43.21A.060, 43.21A.080, 43.27A.090, 90.44.130, 90.54.040(2) and chapter 90.03 RCW. 83-12-060 (Order DE 83-10), § 173-134A-030, filed 6/1/83. Formerly WAC 173-134-010.]

WAC 173-134A-040 Definitions. For purposes of this chapter, the following definitions shall apply:

(1) "Artificially stored ground waters" means waters beneath the land surface within an area, subarea, or zone which are the subject of the declaration by the bureau and accepted by the department of ecology.

(2) "Bureau" means the United States Department of the Interior, Bureau of Reclamation.

(3) "Critical management area" means a specified locality within the Quincy subarea where depletion of ground waters, including interference with surface waters, necessitates the implementation of special ground water restrictions to ensure protection to rights and interests in said waters as set forth in this chapter.

(4) "Deep management unit" means all ground waters underlying the shallow management unit.

(5) "Department" means the department of ecology.

(6) "Ground waters" means all waters that exist beneath the land surface or beneath the bed of any stream, lake, or reservoir, or other body of surface water within the boundaries of the Quincy ground water subarea.

(7) "Public ground waters" means all ground waters in the Quincy ground water subarea other than artificially stored ground water.

(8) "Quincy ground water subarea," and "Quincy subarea" mean the subarea established pursuant to RCW 90.44.130 and set forth in chapter 173-124 WAC.

(9) "Shallow management unit" means the ground water hydraulically continuous between land surface and a depth of 200 feet into the Quincy basalt zone and includes all of the Quincy unconsolidated zone.

It is noted that the definitions of (1) and (7) hereof are not intended to be identical with the definitions in RCW 90.44.035.

[Statutory Authority: RCW 43.21A.060, 43.21A.080, 43.27A.090, 90.44.130, 90.54.040(2) and chapter 90.03 RCW. 83-12-060 (Order DE 83-10), § 173-134A-040, filed 6/1/83. Formerly WAC 173-134-020.]

WAC 173-134A-050 Management and regulation. All public and artificially stored ground water of the Quincy subarea shall be managed and regulated by the department of ecology in accordance with this chapter.

[Statutory Authority: RCW 43.21A.060, 43.21A.080, 43.27A.090, 90.44.130, 90.54.040(2) and chapter 90.03 RCW. 83-12-060 (Order DE 83-10), § 173-134A-050, filed 6/1/83. Formerly WAC 173-134-040.]

WAC 173-134A-060 Withdrawal of waters of deep management unit. All withdrawals of waters of the deep management unit will be controlled by the prior appropriation provisions of RCW 90.44.050 and 90.44.060 and related code sections. The total authorized withdrawals under state permits or certificates from the deep management unit shall not exceed 97,901 acre-feet per year, unless the department should determine otherwise through further studies.

[Statutory Authority: RCW 43.21A.060, 43.21A.080, 43.27A.090, 90.44.130, 90.54.040(2) and chapter 90.03 RCW. 83-12-060 (Order DE 83-10), § 173-134A-060, filed 6/1/83. Formerly WAC 173-134-050.]

WAC 173-134A-070 Public ground water permit amendments. The department may approve amendments to public ground water permits for lands located within the Quincy subarea, including changes in points of withdrawal, purpose, and places of use, only if it believes, after investigation, that the activities proposed in the amendment or amendments will not:

(1) Impair existing rights;

(2) Prove detrimental to the public interest;

(3) Cause the tapping of a different body of ground water (as defined herein or as determined by the department);

(4) Adversely affect the comprehensive scheme of water management adopted for the Quincy subarea.

In addition, with regard to holders of permits or certificates for the use of public ground waters in the Quincy subarea, said permits and certificates shall represent "a valid right to withdraw public ground waters," as that term is used in RCW 90.44.100, only to the extent of beneficial use actually made under the permit or certificate.

[Statutory Authority: RCW 43.21A.060, 43.21A.080, 43.27A.090, 90.44.130, 90.54.040(2) and chapter 90.03 RCW. 83-12-060 (Order DE 83-10), § 173-134A-070, filed 6/1/83. Formerly WAC 173-134-055.]

WAC 173-134A-080 Regulation of waters of the shallow management unit—Permit requirements. Waters of the shallow management unit shall be subject to the following:

(1) Applications for withdrawal of public ground waters shall be processed in accordance with the provisions of chapters 90.44 and 90.03 RCW.

The total quantity of withdrawals of public waters, whether authorized by permits and certificates issued under RCW 90.44.050, 90.44.060 or otherwise, shall not exceed 58,000 acre-feet per year. It appears there may be relatively small amounts of public waters (in the range of not more than 4,000 acre-feet annually) available for appropriation in the shallow management unit. Such small amounts are reserved for withdrawal for domestic and group domestic uses.

(2) No withdrawal of, or construction of any works for the withdrawal of artificially stored ground waters shall be commenced by any person without obtaining permission of the department of ecology. Permission shall be obtained through the issuance of a permit as provided in chapter 173-136 WAC. Application for a permit shall be on a form furnished by the department. In relation to ruling upon any such application, the following shall apply:

(a) Each permit shall be conditioned to ensure that no withdrawal will interfere with the furnishing of adequate supplies of water to the Potholes Reservoir facility of the bureau to satisfy existing and future project needs of the bureau.

(b) Each permit shall be conditioned to ensure that no interference with rights established under state law, previously or in the future, to withdraw public waters or artificially stored ground waters shall be allowed. Rights described herein shall include rights to the (1) maintenance of certain ground water levels to ensure availability and (2) protection of the use ability of certain withdrawal facilities.

(c) To the maximum extent possible, consistent with rights and interest in the ground waters of the Quincy subarea; wildlife, recreation, and other values associated with the general public interest in the ground water in the subarea shall be protected and permits issued hereunder shall be so conditioned.

(d) Permits shall be conditioned such that the well depth shall be no greater than 200 feet into the basalt (the shallow management unit). However, when the total production from the authorized well(s), completed within the shallow management unit does not produce the quantity of water authorized under the permit in gallons per minute, the permittee may apply to the department of ecology for an exemption to the well depth limitation imposed by these regulations. Such an exemption will be granted if reasonable efforts have been made to develop water in the shallow management unit and the proposed deepening will not adversely affect existing rights in the deep management unit. The depth of the well(s) in any event shall not penetrate the top of the Grand Ronde Basalt unit. When an exemption is granted, the department will advise the permittee of the depth to the top of the Grand Ronde Basalt unit at the specific well site(s). The authorized wells must be of adequate diameter and casing wall thickness to accommodate a pump of sufficient capacity to produce the permitted quantity in gallons per minute. Notwithstanding the definitions in WAC 173-134A-040, withdrawals of water subject to exemptions shall be considered as artificially stored ground water.

(e) Each permit shall be conditioned to provide that failure of the permittee to comply with the terms of an executed agreement as described in WAC 173-134A-130 shall constitute grounds for the department to terminate a permit issued under this subsection.

(f) Applications for permits shall be processed in order of their priority, based on the date of receipt of an application by the department of ecology.

(g) Permits granted herein shall pertain to a specific point(s) of withdrawal, and purpose, and place of use. No assignment of such permits can be made without written approval of the department.

The department may approve amendments to permits granted herein regarding changes in point of withdrawal, purpose, and place of use, if it believes, after investigation, that the amendment will comply with WAC 173-134A-070 (1) through (4). Application for amendments provided herein shall be made on forms provided by the department.

Permits for the use of artificially stored ground waters may be amended as to places of use and purpose only to the extent that waters actually have been placed to beneficial use pursuant to the terms of said permits.

(h) No permit shall authorize the withdrawal of waters for agricultural irrigation use for more acres than authorized by federal reclamation law.

(i) Permits issued hereunder shall have no expressed termination date provided, however, the permit shall be modifiable and terminable by the department at any time for good cause in order to accomplish the water management and regulation program of this chapter. Modifications and terminations as provided herein shall be effectuated through the issuance of regulatory orders as described in WAC 173-134A-090.

All permits provided for in chapter 173-136 WAC shall contain development schedules requiring that water be put to beneficial use within a three-year period from the date of issuance. Any permit under which development has not been completed may be perfected to the extent of beneficial use, and cancellation proceedings will be initiated on the remaining undeveloped portion.

(j) By applying for and obtaining a permit hereunder, an applicant expressly waives all other claims of rights to withdraw ground waters of the Quincy subarea for irrigation uses, except as such rights are (1) embodied in a permit or certificate pertaining to public ground waters issued previously by the department of ecology or one of its predecessors or (2) based upon rights established prior to the enactment of chapter 90.44 RCW and are the subject of a claim filed with the department of ecology pursuant to RCW 90.14.041.

(k) There shall be no fee for filing an application for a permit authorized for withdrawal of artificially stored ground waters under this subsection. Said application shall include the names and signatures of all legal owners of the lands proposed for irrigation.

(l) Withdrawals of artificially stored waters authorized by permit under this section shall be limited to a maximum cumulative total of no more than 177,000 acre-feet for each calendar year.

Withdrawals from wells presently drilled into both the shallow and deep management units, covered by an application filed with the department or a license to withdraw water issued by the bureau between May 12, 1967, and February 14, 1974, and which are also subject of a permit issued under this subsection (2), shall be considered as withdrawals from the shallow management unit.

(m) The duty of water for agricultural irrigation uses shall be not more than 3.5 acre-feet for each acre for each calendar year.

(n) No applications for permits submitted pursuant to WAC 173-134A-080(2) shall be approved for withdrawals of artificially stored ground waters from wells located on lands adjacent to bureau waterways and on lands underlain by ground water that hydraulically responds to changes in the water level of the Potholes Reservoir, which specifically are those lands described in amended department of ecology Order No. 75-54, second amendment, entered on February 3, 1986.

[Statutory Authority: RCW 43.21A.060. 86-04-057 (Order DE 86-01), § 173-134A-080, filed 2/4/86. Statutory Authority: RCW 43.21A.060, 43.21A.080, 43.27A.090, 90.44.130, 90.54.040(2) and chapter 90.03 RCW. 83-12-060 (Order DE 83-10), § 173-134A-080, filed 6/1/83. Formerly WAC 173-134-060.]

WAC 173-134A-085 Applicability. The total withdrawal limitations of WAC 173-134A-060 and 173-134A-080 shall apply only to that geographical area within the Quincy ground water subarea that was described in the declaration of ownership of artificially stored waters by the United States Bureau of Reclamation accepted by order of the department under Docket Number 74-772 dated January 8, 1975.

[Statutory Authority: RCW 43.21A.060. 86-04-057 (Order DE 86-01), § 173-134A-085, filed 2/4/86.]

WAC 173-134A-090 Responsibility for water management—Designation of critical management areas. (1) The department of ecology shall be responsible for the water management and regulation program applicable to the comingled waters provided in this chapter, including the authorization of withdrawals of artificially stored ground waters and regulation of the same. The department shall, in order to ensure compliance with the water regulation and administration programs of this chapter, issue regulatory orders. Such orders shall be issued pursuant to RCW 43.27A.190 through 43.27A.210 and shall be subject to review as provided in chapter 43.21B RCW, before the pollution control hearings board.

(2) In times of shortage of water available to satisfy all ground water withdrawals authorized under WAC 173-134A-080(2), the department shall reduce withdrawals, through issuance of regulatory orders, in order of the priority date of the permit, with the latest priority being regulated first. In relation thereto, the department may designate critical management areas within the Quincy subarea based upon any of the following:

(a) Where there is an inadequate supply of water to the Potholes Reservoir and the Potholes canal system;

(b) When there is a shortage of water to satisfy ground water withdrawals authorized under WAC 173-134A-080(2);

(c) Where existing wildlife, recreational, and other values associated with the general public interest are or will be detrimentally affected on a significant scale, or

(d) Where necessary to protect rights to withdraw public waters. Designation of critical management areas shall be made through issuance of regulatory orders which shall define the areas and specify if the regulatory period is permanent or not. During this management period, the department shall determine the allowable limits of withdrawal of artificially stored ground water within the critical management area.

(3) As part of its enforcement program, the department shall terminate permits, through the issuance of regulatory orders, when permittees fail to comply with the terms of an executed agreement as provided in WAC 173-134A-130.

[Statutory Authority: RCW 43.21A.060, 43.21A.080, 43.27A.090, 90.44.130, 90.54.040(2) and chapter 90.03 RCW. 83-12-060 (Order DE 83-10), § 173-134A-090, filed 6/1/83. Formerly WAC 173-134-070.]

WAC 173-134A-100 Establishment of a technical committee. (1) For the purpose of advising the department in the implementation of this chapter, there is established a technical committee consisting of one permanent member and one alternate member each from the bureau and the department assisted by other technical advisors (e.g. irrigation districts, municipalities) as the permanent members consider necessary.

(2) The role of the committee shall relate generally to providing advice pertaining to ground and surface water conditions and management in the Quincy subarea.

(3) The committee shall meet as necessary when called by a permanent member of the committee. Telephone conference calls may constitute a committee meeting.

[Statutory Authority: RCW 43.21A.060, 43.21A.080, 43.27A.090, 90.44.130, 90.54.040(2) and chapter 90.03 RCW. 83-12-060 (Order DE 83-10), § 173-134A-100, filed 6/1/83. Formerly WAC 173-134-080.]

WAC 173-134A-110 Request for protection of interest. Whenever the bureau believes its interest in the ground waters of the Quincy subarea are not being adequately protected, it may request the department to issue regulatory orders or take other appropriate management and regulatory actions designed to protect such interest. If the department concludes the requested action is not warranted in the administration of this chapter, the department shall issue an order denying the request.

[Statutory Authority: RCW 43.21A.060, 43.21A.080, 43.27A.090, 90.44.130, 90.54.040(2) and chapter 90.03 RCW. 83-12-060 (Order DE 83-10), § 173-134A-110, filed 6/1/83. Formerly WAC 173-134-085.]

WAC 173-134A-120 Exemptions. (1) The permit program of WAC 173-134A-080(2) shall not relate to (a) agricultural drains or (b) withdrawals of artificially stored ground waters performed for the purpose of removing excess waters injurious to private or project lands, to bureau canals or wasteways or other similar facilities; provided that no activities pertaining to (b) above will be conducted without first notifying the department and requesting its comment within a reasonable time.

(2) The permit program of WAC 173-134A-080(2) shall not relate to withdrawals by public entities of artificially stored ground waters performed as a necessary incident of the operation of an essential public service activity, such as a solid waste disposal facility or the fighting of fires. The public entity shall not construct facilities for making such withdrawals or engage in such withdrawals without first notifying the department and requesting comments from the department regarding the intended action. This subsection shall not relate to other than essential public services and shall not pertain to the supplying of water for general municipal uses pertaining to satisfaction of industrial and domestic needs.

(3) No permit shall be required under WAC 173-134A-080(2) for withdrawals of artificially stored ground waters of less than 5,000 gallons per day for stockwatering purposes, for watering of a lawn or of a noncommercial garden not exceeding one-half acre in area, for single or group domestic uses, or for an industrial purpose as prescribed in RCW 90.44.050 pertaining to the withdrawal of public ground waters.

[Statutory Authority: RCW 43.21A.060, 43.21A.080, 43.27A.090, 90.44.130, 90.54.040(2) and chapter 90.03 RCW. 83-12-060 (Order DE 83-10), § 173-134A-120, filed 6/1/83. Formerly WAC 173-134-090.]

WAC 173-134A-130 Agreements. (1) No use of water under a permit issued pursuant to WAC 173-134A-080(2) shall take place until the recipient of such permit shall enter into an agreement with the bureau, on a form and in a content, approved and previously agreed to by the bureau and the department, pertaining to withdrawal of artificially stored ground waters. The agreement shall relate to reasonable charges for withdrawal of artificially stored ground waters and other pertinent provisions necessary to comply with federal law and ensure payment of such charges. Use of water before the permittee enters into an agreement with the bureau shall cause the permit to be terminated by the department.

(2) The bureau shall not enter into an agreement, as provided in WAC 173-134A-130(1), until a copy of a permit issued by the department pursuant to WAC 173-134A-080(2) is received by the bureau. Thereafter, upon presentation of a request the bureau shall enter into an agreement with eligible persons having state permits as described in WAC 173-134A-130(1).

[Statutory Authority: RCW 43.21A.060, 43.21A.080, 43.27A.090, 90.44.130, 90.54.040(2) and chapter 90.03 RCW. 83-12-060 (Order DE 83-10), § 173-134A-130, filed 6/1/83. Formerly WAC 173-134-100.]

WAC 173-134A-140 Existing laws and rights. (1) Nothing in this chapter, including any permit issued pursuant hereto, shall authorize the use of waters in a manner which injures the property of others.

(2) Nothing in this chapter purports or is intended to modify any rights of an irrigation district created under a water delivery and "repayment" contract between the United States and irrigation districts located within the Columbia Basin project.

(3) Nothing herein shall modify the rights of the United States to make use of the courts to protect its interests.

(4) Nothing in this chapter is intended to require the bureau to obtain a permit for recapture of ground water for

project purposes by wasteways and drains, including Potholes Reservoir, which water is covered by an accepted declaration of right to withdraw artificially stored ground water pursuant to RCW 90.44.130.

(5) Nothing in this chapter purports to regulate the administration and operation of Columbia Basin project facilities.

[Statutory Authority: RCW 43.21A.060, 43.21A.080, 43.27A.090, 90.44.130, 90.54.040(2) and chapter 90.03 RCW. 83-12-060 (Order DE 83-10), § 173-134A-140, filed 6/1/83. Formerly chapter 173-134 WAC.]

WAC 173-134A-150 Regulation review. The department of ecology shall initiate a review of the rules established in this chapter whenever new information, changing conditions, or statutory modifications make it necessary to consider revisions.

[Statutory Authority: Chapters 43.21A, 43.27A, 90.03 and 90.44 RCW. 88-13-037 (Order 88-11), § 173-134A-150, filed 6/9/88. Statutory Authority: RCW 43.21A.060, 43.21A.080, 43.27A.090, 90.44.130, 90.54.040(2) and chapter 90.03 RCW. 83-12-060 (Order DE 83-10), § 173-134A-150, filed 6/1/83. Formerly chapter 173-134 WAC.]

WAC 173-134A-160 Relinquishments—Public ground water. To the extent the department identifies ground water rights that have reverted to the state pursuant to RCW 90.14.130, et seq.; it, in its discretion, may issue public ground water permits not exceeding those quantities. Public ground water made available due to relinquishment of water rights shall be subject to appropriation, reservation, or withdrawal in accordance with the applicable state water laws.

[Statutory Authority: RCW 43.21A.060, 43.21A.080, 43.27A.090, 90.44.130, 90.54.040(2) and chapter 90.03 RCW. 83-12-060 (Order DE 83-10), § 173-134A-160, filed 6/1/83.]

WAC 173-134A-165 Enforcement. In enforcement of this chapter, the department of ecology may impose such sanctions as are appropriate under authorities vested in it, including but not limited to the issuance of regulatory orders under RCW 43.27A.190 and civil penalties under RCW 90.03.600.

[Statutory Authority: Chapters 43.21A, 43.27A, 90.03 and 90.44 RCW. 88-13-037 (Order 88-11), § 173-134A-165, filed 6/9/88.]

WAC 173-134A-170 Appeals. All final written decisions of the department of ecology pertaining to permits, regulatory orders, and related decisions, made pursuant to this chapter shall be subject to review by the pollution control hearings board in accordance with chapter 43.21B RCW.

[Statutory Authority: Chapters 43.21A, 43.27A, 90.03 and 90.44 RCW. 88-13-037 (Order 88-11), § 173-134A-170, filed 6/9/88. Statutory Authority: RCW 43.21A.060, 43.21A.080, 43.27A.090, 90.44.130, 90.54.040(2) and chapter 90.03 RCW. 83-12-060 (Order DE 83-10), § 173-134A-170, filed 6/1/83.]

Chapter 173-136 WAC

THE ESTABLISHMENT OF A SYSTEM OF AUTHORIZING THE WITHDRAWAL OF ARTIFICIALLY STORED GROUND WATERS EMBODIED IN AN APPROVED DECLARATION UNDER RCW 90.44.130, WHICH ARE COMMINGLED WITH PUBLIC GROUND WATERS IN GROUND WATER AREAS, SUBAREAS, AND ZONES ESTABLISHED UNDER RCW 90.44.130

WAC

173-136-010	Purpose of chapter.
173-136-020	Definitions—This chapter.
173-136-030	Permit to withdraw.
173-136-040	Criteria for ruling upon application for permits.
173-136-050	Public notice of application and public hearings—When required.
173-136-060	Permits—Priorities and conditions of right of withdrawal.
173-136-070	Permits do not establish or embody water rights.
173-136-080	Permits shall be transmitted to the holder of a declaration.
173-136-090	Failure to obtain permit—Unlawful.
173-136-095	Enforcement.
173-136-100	Appeals.
173-136-110	Regulation review.

WAC 173-136-010 Purpose of chapter. The purpose of this chapter is to establish a permit system as a part of a comprehensive state water management and regulatory control program pertaining to the withdrawal and use of ground waters consisting of commingled artificially stored ground waters and public waters located in areas, subareas, and zones designated pursuant to RCW 90.44.130. The permit system established in this chapter relates only to the withdrawal and use of artificially stored ground waters of such ground waters.

[Order 74-36, § 173-136-010, filed 1/9/75.]

WAC 173-136-020 Definitions—This chapter. Definitions. For purposes of this chapter the following definitions shall apply. (It is noted that the (2) and (6) hereof are not intended to be identical with definitions contained in RCW 90.44.035.)

(1) "Area, subarea, or zone" means a ground water area, subarea, or zone designated by the department of ecology pursuant to RCW 90.44.130(3), which contains commingled artificially stored and public ground waters.

(2) "Artificially stored ground waters" mean water beneath the land surface within an area, subarea, or zone(s) which are the subject of a declaration accepted by the department of ecology pursuant to RCW 90.44.130(6).

(3) "Department" means the department of ecology.

(4) "Ground waters" means all waters beneath the land surface of an area, subarea, or zone.

(5) "Person" means individual, public, or private corporation, municipality, county, partnership, association, federal, or state agency or body, or any other entity whatsoever.

(6) "Public ground waters" means all ground waters within an area, subarea, or zone other than artificially stored ground waters.

[Order 74-36, § 173-136-020, filed 1/9/75.]

WAC 173-136-030 Permit to withdraw. No person, unless expressly exempted by a specific management regulation of the department adopted for an area or subarea, may withdraw any artificially stored ground waters for beneficial use from any area, subarea, or zone without first obtaining a permit from the department of ecology as hereinafter provided. An application for a permit shall be submitted on a form provided by the department. The application shall contain the following information:

(1) Name

(2) Address

(3) Point of withdrawal

(4) Place of use

(5) Purpose of use

(6) Time of use

(6a) Amounts of withdrawal, including both maximum rate and the total volume each calendar year

(7) The area, subarea, and zone from which the waters are to be withdrawn.

[Order 74-36, § 173-136-030, filed 1/9/75.]

WAC 173-136-040 Criteria for ruling upon application for permits. (1) The criteria for ruling on an application for a permit are as follows. An application shall be approved if:

(a) Artificially stored waters are available for withdrawal; and

(b) The public interest will not be detrimentally affected; and

(c) Rights to withdraw public water will not be impaired; and

(d) The interests of the holder emodied [embodied] in a declaration accepted by the department pursuant to RCW 90.44.130(6) will not be impaired.

(e) The withdrawal and use proposed in the application can be performed consistent with the provision of the chapter of the Washington Administrative Code containing the water management and regulation regulations for the specific ground water area, subarea, or zone to which the application relates.

(2) Prior to issuance of a permit to withdraw artificially stored ground water, the department shall consult with the holder of a declaration accepted by the department pursuant to RCW 90.44.130.

[Order 74-36, § 173-136-040, filed 1/9/75.]

WAC 173-136-050 Public notice of application and public hearings—When required. (1) Public notices of applications filed with the department shall be required by the department only when it appears to the department that the public interest will be served. When a notice is required the applicant shall be responsible for its publication in a form, manner, and frequency as determined by the department unless otherwise specified.

(2) Public hearings on such applications shall be required by the department only when it appears to the department that the public interest will be served.

[Order 74-36, § 173-136-050, filed 1/9/75.]

WAC 173-136-060 Permits—Priorities and conditions of right of withdrawal. Every permit issued pursuant to this chapter shall be:

(1) Conditioned to insure the protection of public interest and values and of the rights of withdrawal and use established in public waters and artificially stored ground waters both prior and subsequent to the issuance of such a permit.

(2) Conditioned to comply with the provisions of the chapter of the Washington Administrative Code containing the water management and regulation regulations for the specific ground water area, subarea, or zone to which the application relates.

(3) Conditioned to provide for inspection, monitoring, entry, and reporting of data by or to the department and the holder of an accepted declaration as required by the department.

(4) Conditioned to provide that a permit shall be subject to termination or modification for failure to comply with any agreement, approved by the department, between the permittee and the holder of a declaration accepted by the department of ecology pursuant to RCW 90.44.130.

(5) Subject to termination or modification, through issuance of supplemental orders of the department, for good cause, including but not limited to:

(a) Violation of a permit condition;

(b) Obtaining a permit by misrepresentation or failure to fully disclose all relevant facts;

(c) The receipt of new facts or information dictate the same.

[Order 74-36, § 173-136-060, filed 1/9/75.]

WAC 173-136-070 Permits do not establish or embody water rights. Permits issued pursuant to this chapter do not establish or embody water rights as provided in RCW 90.44.050 and 90.44.060.

[Order 74-36, § 173-136-070, filed 1/9/75.]

WAC 173-136-080 Permits shall be transmitted to the holder of a declaration. A copy of each permit issued by the department under this chapter shall be transmitted, at the time of issuance, to the holder of a declaration accepted by the department pursuant to RCW 90.44.130 pertaining to artificially stored ground water.

[Order 74-36, § 173-136-080, filed 1/9/75.]

WAC 173-136-090 Failure to obtain permit—Unlawful. Failure to comply with the provisions of this chapter, including failure to obtain a permit as required herein and violation of a condition of such a permit, shall constitute a basis for the imposition of civil and criminal sanctions contained in applicable state statutes.

[Order 74-36, § 173-136-090, filed 1/9/75.]

WAC 173-136-095 Enforcement. In enforcement of this chapter, the department of ecology may impose such sanctions as are appropriate under authorities vested in it, including but not limited to the issuance of regulatory orders

under RCW 43.27A.190 and civil penalties under RCW 90.03.600.

[Statutory Authority: Chapters 43.21A, 43.27A, 90.03 and 90.44 RCW. 88-13-037 (Order 88-11), § 173-136-095, filed 6/9/88.]

WAC 173-136-100 Appeals. All final written decisions of the department of ecology pertaining to permits, regulatory orders, and related decisions made pursuant to this chapter shall be subject to review by the pollution control hearings board in accordance with chapter 43.21B RCW.

[Statutory Authority: Chapters 43.21A, 43.27A, 90.03 and 90.44 RCW. 88-13-037 (Order 88-11), § 173-136-100, filed 6/9/88; Order 74-36, § 173-136-100, filed 1/9/75.]

WAC 173-136-110 Regulation review. The department of ecology shall initiate a review of the rules established in this chapter whenever new information, changing conditions, or statutory modifications make it necessary to consider revisions.

[Statutory Authority: Chapters 43.21A, 43.27A, 90.03 and 90.44 RCW. 88-13-037 (Order 88-11), § 173-136-110, filed 6/9/88.]

Chapter 173-145 WAC
ADMINISTRATION OF THE FLOOD CONTROL ASSISTANCE ACCOUNT PROGRAM

WAC

173-145-010	Authority and purpose.
173-145-020	Definitions.
173-145-030	Eligibility criteria for FCAAP funds.
173-145-040	Comprehensive flood control management plan (CFCMP).
173-145-050	Flood plain management activities.
173-145-060	FCAAP project application process.
173-145-070	FCAAP project approval process.
173-145-080	Criteria for allocation of funds.
173-145-090	Flood control assistance account funding and matching requirements.
173-145-100	Emergency fund administration.
173-145-110	Multiyear projects.
173-145-120	Work standards for all FCAAP projects.
173-145-130	Project construction monitoring.
173-145-140	Written agreements.
173-145-155	Approval of changes to written agreements.

DISPOSITION OF SECTIONS FORMERLY CODIFIED IN THIS CHAPTER

173-145-150	Equipment rental. [Statutory Authority: Chapter 86.26 RCW. 85-14-002 (Order DE 85-10), § 173-145-150, filed 6/21/85.] Repealed by 87-04-022 (Order 86-36), filed 1/28/87. Statutory Authority: Chapter 86.26 RCW.

WAC 173-145-010 Authority and purpose. RCW 86.26.050 provides that counties and other municipal corporations responsible for flood control maintenance may apply to the department of ecology for financial assistance for the preparation of comprehensive flood control management plans and for flood control maintenance projects. The purpose of those plans is described in RCW 86.26.105. The department shall determine priorities and allocate available funds from the flood control assistance account program (FCAAP) among those counties applying for assistance, and shall adopt rules establishing the criteria by which those allocations must be made. The criteria must be based upon proposals that are likely to bring about public benefits commensurate with the amount of state funds allocated thereto. This chapter describes the manner in which ecology will implement the provisions of the act.

[Statutory Authority: RCW 86.26.105. 01-02-006 (Order 00-13), § 173-145-010, filed 12/21/00, effective 1/21/01. Statutory Authority: Chapter 86.26 RCW. 87-04-022 (Order 86-36), § 173-145-010, filed 1/28/87; 85-14-002 (Order DE 85-10), § 173-145-010, filed 6/21/85.]

WAC 173-145-020 Definitions. For the purposes of this chapter, the following definitions are used:

(1) "Applicant." An eligible municipal corporation seeking matching funds for flood control maintenance work.

(2) "Appropriate local authority." A county, city, or town that has planning and land use jurisdiction within a given area that is covered by the comprehensive flood control management plan.

(3) "Certification." Certification is the written confirmation between ecology and the appropriate local authority and the county engineer who verifies the understanding as to what the comprehensive flood control management plan will contain, the timing and anticipated product, and a reporting schedule that will allow for ecology review and input during the plan development.

(4) "Comprehensive flood control management plan (CFCMP)." A document that determines the need for flood control work, considers alternatives to in-stream flood control work, identifies and considers potential impacts of in-stream flood control work on the state's in-stream resources, and identifies the river's meander belt or floodway, as described in WAC 173-145-040.

(5) "County engineer." The appointed public works director, county engineer, or the person designated to act for the county engineer.

(6) "Eligible municipal corporation." Counties, cities, towns, conservation districts, flood control zone districts, or any special districts subject to flood conditions.

(7) "Emergency fund." That portion of the biennial appropriation allocated to the flood control assistance account which is set aside for emergency projects.

(8) "Emergency project." Flood control work necessary for reasons declared by the appropriate local authority and as authorized and approved by ecology that must be done immediately to protect lives or property.

(9) "Flood compatible land uses." Those uses of the land within the river's meander belt or floodway which comply with the minimum state, federal, and local flood plain management rule requirements.

(10) "Flood plain management activities." Activities described in WAC 173-145-050 performed by local governments through ordinances or other means to reduce the damaging effects of flooding.

(11) "Floodway." The channel of a river or other watercourse and the adjacent land areas that must be reserved in order to discharge the base (one hundred year frequency) flood without cumulatively increasing the water surface elevation more than a designated height.

(12) "Maintenance project." The work necessary to preserve or restore the natural condition or to restore man-made flood control facilities to their former condition using in-kind replacement materials or acceptable alternatives. This work

is necessary due to anticipated or actual damage or destruction from flooding by action of erosion, stream flow, sheet runoff, or other damages by the sea or other bodies of water.

(13) "Meander belt." That portion of the flood plain, that can be identified by the evidence of present and previous meanders. This includes the present stream channel. Where there is no identified floodway, that area which is floodprone and has similar topographic characteristics to present and historic stream channels is considered as a meander belt.

(14) "Public benefit." Benefit to the health, safety, or general welfare of the citizens of the state or community at large that results from a flood control project or plan, or some benefit by which their rights or liabilities are affected such as an effect on public property or facilities owned or maintained by an eligible municipal corporation.

(15) "Special district." A district as defined in chapter 85.38 RCW that is either a:

(a) Diking district;

(b) Drainage district;

(c) Diking, drainage, and/or sewerage improvement district;

(d) Intercounty diking and drainage district;

(e) Consolidated diking district, drainage district, diking improvement district, and/or drainage improvement district; or

(f) Flood control district.

[Statutory Authority: RCW 86.26.105. 01-02-006 (Order 00-13), § 173-145-020, filed 12/21/00, effective 1/21/01. Statutory Authority: Chapter 86.26 RCW. 87-04-022 (Order 86-36), § 173-145-020, filed 1/28/87; 85-14-002 (Order DE 85-10), § 173-145-020, filed 6/21/85.]

WAC 173-145-030 Eligibility criteria for FCAAP funds. Criteria to be used in determining eligibility for FCAAP funds are as follows:

(1) Eligible municipal corporation. The applicant must be an eligible municipal corporation as defined in WAC 173-145-020(6).

(2) Public benefit. The applicant must demonstrate that their comprehensive flood control management plans and flood control maintenance projects will further the general public and state interest as differentiated from a private interest and that they will bring about public benefits commensurate with FCAAP funds provided.

(3) Comprehensive flood control management plan. The requirements of WAC 173-145-040 must be complied with by the appropriate local authority with flood control jurisdiction over the area where the proposed project is located.

(4) Flood plain management activities. The appropriate local authority within whose jurisdiction projects are located must be engaging in approved flood plain management activities as described in WAC 173-145-050.

(5) Budget report. Any eligible municipal corporation seeking FCAAP funds shall submit its annual budget for flood control purposes to the county engineer within thirty calendar days after its final adoption. The county engineer shall then forward the budget report for eligible municipal corporations and for the county to ecology. The information will provide the basis for preparation of a preliminary plan for the most beneficial and orderly allocation of FCAAP funds. Soil conservation districts are exempt from the provisions of this section.

[Statutory Authority: RCW 86.26.105. 01-02-006 (Order 00-13), § 173-145-030, filed 12/21/00, effective 1/21/01. Statutory Authority: Chapter 86.26 RCW. 87-04-022 (Order 86-36), § 173-145-030, filed 1/28/87; 85-14-002 (Order DE 85-10), § 173-145-030, filed 6/21/85.]

WAC 173-145-040 Comprehensive flood control management plan (CFCMP). The county engineer of the county within which the maintenance project is located shall certify that the CFCMP has been completed and adopted by the appropriate local authority or is being prepared. Comprehensive flood control management plans, and any revisions to the plans, must be approved by ecology, in consultation with the department of fish and wildlife. The CFCMP must be completed and adopted within three years of the date that it is certified as being prepared. If, after the three-year period has elapsed, such a plan has not been completed and adopted, the appropriate local authority may not make grants to the county for flood control maintenance projects until the CFCMP is completed and adopted by the appropriate local authority. During the three-year period, projects within a drainage area, designated as the CFCMP study area, may be funded as part of a phased project plan: Provided, That preliminary studies for the CFCMP have been conducted to identify the one-hundred-year frequency flood plain problem areas and factors contributing to flooding: And provided further, That the proposed projects have been prioritized to achieve the greatest efficiency in flood control for the overall CFCMP study area. These limitations on grants may not preclude allocations for emergency purposes made under RCW 86.26.060. The appropriate local authority may require the applicant to fully or partially fund the preparation of the CFCMP. The plan must include:

(1) Determination of the need for flood control work.

(a) Description of the watershed;

(b) Identification of types of watershed flood problems;

(c) Location and identification of specific problem areas;

(d) Description of flood damage history;

(e) Description of potential flood damages;

(f) Short-term and long-term goals and objectives for the planning area;

(g) Description of rules that apply within the watershed including, but not limited to, local shoreline management master programs, and zoning, subdivision, and flood hazard ordinances;

(h) Determination that the instream flood control work is consistent with applicable policies and rules.

(2) Alternative flood control work.

(a) Description of potential measures of instream flood control work;

(b) Description of alternatives to instream flood control work.

(3) Identification and consideration of potential impacts of instream flood control work on the following instream uses and resources.

(a) Fish resources;

(b) Wildlife resources;

(c) Scenic, aesthetic, and historic resources;

(d) Navigation;

(e) Water quality;

(f) Hydrology;

(g) Existing recreation;

(h) Other impacts.

(4) Area of coverage for the comprehensive plan shall include, as a minimum, the area of the one-hundred-year frequency flood plain within a reach of the watershed of sufficient length to ensure that a comprehensive evaluation can be made of the flood problems for a specific reach of the watershed. The plan may or may not include an entire watershed. Comprehensive plans shall also include flood hazard areas not subject to riverine flooding such as areas subject to coastal flooding, flash flooding, or flooding from inadequate drainage. Either the meander belt or floodway must be identified on aerial photographs or maps that will be included with the plan.

(5) Conclusion and proposed solution(s). The CFCMP must be finalized by the following action from the appropriate local authority:

(a) Evaluation of problems and needs;

(b) Evaluation of alternative solutions;

(c) Recommended corrective action with proposed impact resolution measures for resource losses; and

(d) Corrective action priority.

(6) A certification from the state department of community, trade, and economic development that the local emergency management organization is administering an acceptable comprehensive emergency operations plan.

[Statutory Authority: RCW 86.26.105. 01-02-006 (Order 00-13), § 173-145-040, filed 12/21/00, effective 1/21/01. Statutory Authority: Chapter 86.26 RCW. 87-04-022 (Order 86-36), § 173-145-040, filed 1/28/87; 85-14-002 (Order DE 85-10), § 173-145-040, filed 6/21/85.]

WAC 173-145-050 Flood plain management activities. Local jurisdictions within which flood control maintenance projects are located, must be engaging in flood plain management activities. Under chapter 86.26 RCW the director of the department of ecology must approve the flood plain management activities of the county, city, or town that has jurisdiction over the area where the project will be located. To be eligible for FCAAP funding the local jurisdiction must be required to:

(1) Participate in the National Flood Insurance Program (NFIP) and meet all of the NFIP requirements.

(2) Restrict land uses within the meander belt or floodway of rivers to only flood compatible uses. Where applicable, adopted shoreline management master programs will be considered a minimum land use measure.

[Statutory Authority: RCW 86.26.105. 01-02-006 (Order 00-13), § 173-145-050, filed 12/21/00, effective 1/21/01. Statutory Authority: Chapter 86.26 RCW. 87-04-022 (Order 86-36), § 173-145-050, filed 1/28/87; 85-14-002 (Order DE 85-10), § 173-145-050, filed 6/21/85.]

WAC 173-145-060 FCAAP project application process. The project application process for the eligible municipal corporations' applications includes the following in the general sequence given.

(1) The applicant shall prepare the project application to comply with the provisions of chapter 86.26 RCW and this chapter. The application must be made on a form furnished by ecology. A complete application shall include the following:

(a) A written description of the project containing the following as a minimum: Name of applicant, name of affected water body, project summary, location, amount of local match, and proposed local funding source;

(b) A detailed cost estimate identifying major project elements;

(c) A map to identify water body names, stream river mile, section-township-range;

(d) Construction plans; and

(e) A description of the project benefits that describes how the project will mitigate flood damages and describes development which exists on adjacent and nearby lands which are protected by the facility.

(2) The applicant shall review the preliminary project proposal with the county engineer, the Washington department of fish and wildlife and the department of natural resources and any affected Indian tribes.

(3) The applicant shall submit a prioritized list of project applications to the county engineer.

(4) The county engineer shall submit a prioritized list of all project applications within the county to ecology.

(5) The county engineer shall furnish evidence to ecology that the comprehensive flood control management plan described in WAC 173-145-040 is being prepared or is completed and adopted by the appropriate local authority and the flood plain management activities described in WAC 173-145-050 are being implemented.

[Statutory Authority: RCW 86.26.105. 01-02-006 (Order 00-13), § 173-145-060, filed 12/21/00, effective 1/21/01. Statutory Authority: Chapter 86.26 RCW. 87-04-022 (Order 86-36), § 173-145-060, filed 1/28/87; 85-14-002 (Order DE 85-10), § 173-145-060, filed 6/21/85.]

WAC 173-145-070 FCAAP project approval process. The project approval process for the eligible municipal corporations' applications includes the following in the general sequence given.

(1) Ecology will review all projects for compliance with the requirements under this chapter and chapter 86.26 RCW.

(2) Ecology shall consult with the state department of fish and wildlife in the development of a project priority list. The state department of natural resources, affected Indian tribes, and other affected parties may review and comment on the proposed project plans before the approval of those plans.

(3) Thirty days public notice must be given that the project priority list will be the subject of a public hearing. Notice of this hearing shall appear in the *Washington State Register* in accordance with chapter 34.08 RCW.

(4) The project priority list will be available at the shorelands and environmental assistance program of the department of ecology, at least fifteen days before the public hearing.

(5) The public comments will be reviewed and ecology shall approve the project priority list as proposed or as revised in accordance with public comments.

(6) Ecology shall prepare and finalize the written agreements with the counties.

(7) The counties shall prepare and finalize the written agreements with the involved eligible municipal corporations within the county.

(8) The applicant shall prepare the construction plans and specifications for approval by the county engineer before submitting them to ecology for review and approval of each project for compliance with all requirements.

(9) The applicant shall acquire the necessary federal, state, and local permits or authorizations along with any other permission required to complete the project.

[Statutory Authority: RCW 86.26.105. 01-02-006 (Order 00-13), § 173-145-070, filed 12/21/00, effective 1/21/01. Statutory Authority: Chapter 86.26 RCW. 87-04-022 (Order 86-36), § 173-145-070, filed 1/28/87; 85-14-002 (Order DE 85-10), § 173-145-070, filed 6/21/85.]

WAC 173-145-080 Criteria for allocation of funds. The priority given to projects by ecology, the counties, and other eligible municipal corporations shall involve consideration of the following criteria:

(1) The relationship of public benefits to total project costs;

(2) The priority that has already been established by each county;

(3) Intensity of local flood control management problems including, but not limited to, their inter-relationships with:

(a) Population affected;

(b) Property and related development affected;

(c) Land management and zoning;

(d) Existing flood control management practices.

(4) Where the CFCMP is completed and adopted, the following will be considered:

(a) Consistency with the plan or plan recommendations;

(b) Priority of the project as identified in the plan;

(c) Implementation of the plan or plan recommendations;

(d) Potential impacts of instream uses and resources;

(5) Where a CFCMP is being developed or has not been initiated, the following will be considered:

(a) Evidence of multijurisdictional cooperation necessary for development of a comprehensive county or multicounty comprehensive flood control management plan (CFCMP);

(b) Availability of qualified personnel or resources for planning purposes;

(c) Availability of qualified personnel or resources for project construction purposes;

(d) Other planning efforts undertaken or proposed within the planning jurisdiction and their relationship to flood control management;

(e) Ability to make rapid progress toward development of a comprehensive flood control management plan;

(f) Existing and proposed participation of community groups, private industry, professional organizations, the general public, and others toward the development and implementation of the proposed comprehensive flood control management plan.

[Statutory Authority: RCW 86.26.105. 01-02-006 (Order 00-13), § 173-145-080, filed 12/21/00, effective 1/21/01. Statutory Authority: Chapter 86.26 RCW. 87-04-022 (Order 86-36), § 173-145-080, filed 1/28/87; 85-14-002 (Order DE 85-10), § 173-145-080, filed 6/21/85.]

WAC 173-145-090 Flood control assistance account funding and matching requirements. The flood control assistance account is established at four million dollars at the beginning of each biennium. The following criteria must be used for allocating FCAAP funds:

(1) The amount of FCAAP funding for any project, except emergency projects described in WAC 173-145-100, may not exceed seventy-five percent of the total project cost, including planning and design costs.

(2) The amount of FCAAP funds for cost sharing feasibility studies for new flood control projects shall not exceed fifty percent of the matching funds that are required by the federal government, and shall not exceed twenty-five percent of the total cost of the feasibility study.

(3) The amount of FCAAP funds to prepare a CFCMP may not exceed seventy-five percent of the full planning costs.

(4) The amount of FCAAP funds available for all nonemergency projects and CFCMP's in any county may not exceed five hundred thousand dollars per biennium.

(5) In addition to the limits in subsection (4) of this section, an agency formed under chapter 86.13 RCW must be allowed up to one hundred thousand dollars in FCAAP funds per biennium.

(6) In those areas where a designated CFCMP area extends into two or more jurisdictions, costs for a CFCMP may be shared by the involved local authorities.

[Statutory Authority: RCW 86.26.105. 01-02-006 (Order 00-13), § 173-145-090, filed 12/21/00, effective 1/21/01. Statutory Authority: Chapter 86.26 RCW. 87-04-022 (Order 86-36), § 173-145-090, filed 1/28/87; 85-14-002 (Order DE 85-10), § 173-145-090, filed 6/21/85.]

WAC 173-145-100 Emergency fund administration. Funds must be available for flood control projects in response to unusual, unforseeable [unforeseeable], and emergent flood conditions and must be allocated in amounts adequate for the preservation of life and property. The following criteria must be the basis of allocating the emergency funds:

(1) Appropriations from the FCAAP fund for emergency projects will require the declaration of an emergency by the appropriate local authority.

(2) Application for emergency funds must be made on the same form used for nonemergency fund applications.

(3) Payment of FCAAP funds for emergency projects will be based on project construction costs. Flood fighting costs may be included.

(4) Payment for emergency work must be allocated on a first-come first-serve basis and may not be based on any priority system.

(5) At the discretion of ecology, emergency funds may be made available for use on nonemergency projects.

(6) The maximum amount of emergency funds initially available for any one county is one hundred fifty thousand dollars per biennium. If the total available emergency funds are not needed by other counties, and the amount of emergency funds needed in a county exceeds one hundred fifty thousand dollars, the county can request additional emergency funds.

(7) The flood control assistance account contribution may not exceed eighty percent of the eligible project cost of an emergency project.

(8) Emergency funds will only be made available to projects that have been given approval for matching funds by the department of ecology before construction work is performed.

[Statutory Authority: RCW 86.26.105. 01-02-006 (Order 00-13), § 173-145-100, filed 12/21/00, effective 1/21/01. Statutory Authority: Chapter 86.26 RCW. 87-04-022 (Order 86-36), § 173-145-100, filed 1/28/87; 85-14-002 (Order DE 85-10), § 173-145-100, filed 6/21/85.]

WAC 173-145-110 Multiyear projects. Approval for eligibility by ecology will only be required once for a project that continues more than one biennium, but funding for each subsequent biennium is subject to further FCAAP appropriation by the legislature.

[Statutory Authority: RCW 86.26.105. 01-02-006 (Order 00-13), § 173-145-110, filed 12/21/00, effective 1/21/01. Statutory Authority: Chapter 86.26 RCW. 87-04-022 (Order 86-36), § 173-145-110, filed 1/28/87; 85-14-002 (Order DE 85-10), § 173-145-110, filed 6/21/85.]

WAC 173-145-120 Work standards for all FCAAP projects. All work that is funded from the flood control assistance account shall conform to the standards and specifications of the county engineer.

[Statutory Authority: RCW 86.26.105. 01-02-006 (Order 00-13), § 173-145-120, filed 12/21/00, effective 1/21/01. Statutory Authority: Chapter 86.26 RCW. 87-04-022 (Order 86-36), § 173-145-120, filed 1/28/87; 85-14-002 (Order DE 85-10), § 173-145-120, filed 6/21/85.]

WAC 173-145-130 Project construction monitoring. The following are the responsibilities and criteria for project construction monitoring and final approval:

(1) County engineer responsibilities. Associated with responsibility for project plan approval and supervision of the project work, the county engineer shall provide inspection to assure that all project work is conducted and completed according to the construction plans and specifications.

(2) Ecology's responsibilities. The authorized representative of the department of ecology has the right to enter at all reasonable times in or upon any property, public or private, for the purpose of monitoring and inspecting the project work as necessary to assure compliance with the terms of the appropriate written agreement. The authorized representative of the department of ecology is the contract officer and must be identified in the written agreement. The county engineer will be informed before any inspection for purposes of construction monitoring and guidance by any representative of ecology other than the contract officer. Representatives of ecology may observe the construction process without prior notification of the county engineer.

(3) Final inspection and approval. Upon completion of the work, the county engineer, along with representatives from ecology and the applicant, shall make a final detailed inspection. Results of the final inspection must be displayed in a written report prepared by ecology and, when appropriate, on "as built" construction plans. "As built" construction plans must be submitted to ecology within thirty days after the final project inspection.

[Statutory Authority: RCW 86.26.105. 01-02-006 (Order 00-13), § 173-145-130, filed 12/21/00, effective 1/21/01. Statutory Authority: Chapter 86.26 RCW. 87-04-022 (Order 86-36), § 173-145-130, filed 1/28/87; 85-14-002 (Order DE 85-10), § 173-145-130, filed 6/21/85.]

WAC 173-145-140 Written agreements. Written agreements will be prepared by ecology as a means to reimburse eligible municipal corporations for work done on approved eligible projects or for development of CFCMP's. Written agreements, billing, and payment shall comply with ecology's standard requirements for grants and contracts. Notification is required when written agreements will not be accepted or executed to allow ecology the opportunity to award prioritized, unfunded projects.

[Statutory Authority: Chapter 86.26 RCW. 87-04-022 (Order 86-36), § 173-145-140, filed 1/28/87; 85-14-002 (Order DE 85-10), § 173-145-140, filed 6/21/85.]

WAC 173-145-155 Approval of changes to written agreements. All flood control maintenance and comprehensive flood control management planning (CFCMP) projects subject to the provisions of this rule must be conducted in accordance with the plans, specifications, and conditions approved by ecology. Any contemplated changes during construction or planning process that are significant deviations from conditions of the approved agreement, must first be submitted to ecology for approval. Any changes to the total cost of the project following execution of the written agreement must be submitted to ecology for approval before the construction or the completion of the plan.

[Statutory Authority: RCW 86.26.105. 01-02-006 (Order 00-13), § 173-145-155, filed 12/21/00, effective 1/21/01. Statutory Authority: Chapter 86.26 RCW. 87-04-022 (Order 86-36), § 173-145-155, filed 1/28/87.]

Chapter 173-150 WAC

PROTECTION OF WITHDRAWAL FACILITIES ASSOCIATED WITH GROUND WATER RIGHTS

WAC

173-150-010	Purpose.
173-150-020	Authority.
173-150-030	Definitions.
173-150-040	Reasonable or feasible pumping lift.
173-150-050	Establishment of new rights—Interference considerations.
173-150-060	Impairment of water right.
173-150-070	Notification of impairment of right.
173-150-080	Procedures for correction of impairment.
173-150-090	Voluntary agreements.
173-150-100	Water quality.
173-150-110	Saltwater intrusion and ground water contamination.
173-150-120	Applicability.
173-150-125	Enforcement.
173-150-130	Appeals.
173-150-135	Regulation review.
173-150-140	Existing laws and regulations not affected.

WAC 173-150-010 Purpose. The purpose of this chapter is to establish and set forth the policies and procedures of the department of ecology in regard to the protection of the availability of ground water as it pertains to the water withdrawal facilities of holders of ground water rights.

[Statutory Authority: Chapter 90.44 RCW. 85-12-017 (Order 84-44), § 173-150-010, filed 5/29/85.]

WAC 173-150-020 Authority. This chapter is promulgated by the department of ecology pursuant to chapters 43.21A, 90.44, 90.54 and 18.104 RCW.

[Statutory Authority: Chapter 90.44 RCW. 85-12-017 (Order 84-44), § 173-150-020, filed 5/29/85.]

WAC 173-150-030 Definitions. For the purposes of this chapter the following definitions shall apply:

(1) "Department" means the Washington state department of ecology.

(2) "Ground water right" means an authorization to use ground water established pursuant to chapter 90.44 RCW, state common or statutory law existing prior to the enactment of chapter 90.44 RCW, or federal law.

(3) "Withdrawal facilities" means and includes any well, infiltration trench or other excavation that is drilled, cored, bored, washed, driven, dug, jetted or otherwise constructed, together with the casing, screen, pump, pump column, motor and related equipment, which is used for the withdrawal of ground water.

(4) "Aquifer" means any geologic formation that will yield water to a well or other withdrawal works in sufficient quantity for beneficial use.

(5) "Ground water" means all waters that exist beneath the land surface or beneath the bed of any stream, lake or reservoir, or other body of surface water, whatever may be the geological formation or structure in which such water stands or flows, percolates or otherwise moves.

(6) "Contamination" means an impairment of the beneficial use of ground water arising from the modification of the quality thereof by the introduction of organisms, chemical, organic or radioactive material or of heated or cooled water.

(7) "Significant modification" means the deepening or reaming of a well, lowering the pump bowls by adding lengths of pump column, adding water quality treatment devices, or other similar modifications, where the total cost or value of such modifications exceeds (1) $500.00 for domestic, stock or other water withdrawal facilities withdrawing less than 5,000 gallons per day, or (2) $2500.00 for all other facilities.

(8) "Qualifying withdrawal facilities" means those withdrawal facilities which in the opinion of the department constitute a reasonable development of the aquifer. A reasonable development must satisfy the following requirements:

(a) The withdrawal facilities must be constructed in accordance with chapter 18.104 RCW (Water Well Construction Act) and chapter 173-160 WAC (Minimum standards for construction and maintenance of water wells) and the water right permit provisions, if any, or the applicable state laws and the regulations of the department which were in effect at the time of construction of the facilities.

(b) The withdrawal facilities must have a depth of aquifer penetration which will allow the withdrawal of water from a reasonable or feasible pumping lift;

(c) The withdrawal facilities must be able to accommodate a reasonable variation in seasonal pumping water levels;

(d) The withdrawal facilities, including the pumping facilities, must be properly sized to the ability of the aquifer to produce water.

[Statutory Authority: Chapter 90.44 RCW. 85-12-017 (Order 84-44), § 173-150-030, filed 5/29/85.]

WAC 173-150-040 Reasonable or feasible pumping lift. For the purposes of this chapter, reasonable or feasible pumping lift shall be determined by the department taking into account the following factors, among others:

(1) The geohydraulic characteristics of the aquifer;

(2) The state of construction technology of water withdrawal facilities;

(3) Historic considerations in regards to the construction, maintenance and use of water withdrawal facilities within the vicinity;

(4) The ground water area or subarea management program for the vicinity, if one exists.

[Statutory Authority: Chapter 90.44 RCW. 85-12-017 (Order 84-44), § 173-150-040, filed 5/29/85.]

WAC 173-150-050 Establishment of new rights—Interference considerations. If the department determines that a proposed appropriation of ground water would cause a lowering of the water levels below a reasonable or feasible pumping lift in any withdrawal facilities of an existing ground water right holder or that approval of the proposed appropriation would impair any existing water rights or would otherwise be detrimental to the public welfare, the application shall be rejected. If, however, the application is to be rejected because of conflict with existing rights, and the applicant thereafter indicates that such existing rights will be acquired by the applicant by purchase, gift or condemnation under RCW 90.03.040, the department may issue an interim conditional ruling and defer final decision on the application for a reasonable period of time to be specified by the department in the interim ruling.

[Statutory Authority: Chapter 90.44 RCW. 85-12-017 (Order 84-44), § 173-150-050, filed 5/29/85.]

WAC 173-150-060 Impairment of water right. For the purposes of this chapter, a ground water right which pertains to qualifying withdrawal facilities, shall be deemed to be impaired whenever:

(1) There is an interruption or an interference in the availability of water to said facilities, or a contamination of such water, caused by the withdrawal of ground water by a junior water right holder or holders; and

(2) Significant modification is required to be made to said facilities in order to allow the senior ground water right to be exercised.

[Statutory Authority: Chapter 90.44 RCW. 85-12-017 (Order 84-44), § 173-150-060, filed 5/29/85.]

WAC 173-150-070 Notification of impairment of right. Any senior ground water right holder who believes that his water right has been impaired may notify the department of such impairment and request the assistance of the department to protect the availability of water to his qualifying withdrawal facilities. Such notification and request for assistance must be in writing and must contain the following information:

(1) Name, address and signature of the senior water right holder;

(2) Description of the water right, including the water right number if one exists; the quantities of water permitted and the quantities of water historically withdrawn; the priority date of the water right; the location of the withdrawal facilities; a description of the withdrawal facilities including well depth, casing, pump size and depth and historic water levels, and any recent changes made to the withdrawal facilities or the use of such facilities, especially in relation to WAC 173-150-030(8); the name of the water well contractor and a copy of the water well report of the construction of the withdrawal facilities, if available;

(3) Description of the alleged impairment of the senior water right, the date of the beginning of impairment, the degree of impairment and any steps taken by the senior water right holder to alleviate the impairment;

(4) Location and description of the junior water withdrawal facilities together with the name of the user thereof, if known, which in the opinion of the senior water right holder are the cause of the impairment;

(5) Any other pertinent information which may reasonably be required by the department.

[Statutory Authority: Chapter 90.44 RCW. 85-12-017 (Order 84-44), § 173-150-070, filed 5/29/85.]

WAC 173-150-080 Procedures for correction of impairment. Upon notification to the department of the impairment of a ground water right as provided in WAC 173-150-070 or on the department's own motion, the department may, when appropriate, notify the water right holders of the alleged impairment and of its intention to make investigations concerning the matter. The department may conduct aquifer or pump tests and make investigations of the withdrawal works, geology, hydrology, water quality, historic water use or other factors which may influence the local aquifers, and may make a written report of its findings. If it is determined that ground water withdrawals by a junior water right holder or holders have caused the impairment, the department may, through regulatory orders, take one or more of the following actions:

(1) Bar or regulate the withdrawals of the junior appropriator(s) in a fashion which will preclude future impairment of the senior right;

(2) Bar or regulate the ground water withdrawals of the most junior water right holders in order of priority of right if the aggregate withdrawals exceed the maximum amount set by the department for the area, subarea or zone pursuant to the procedures of RCW 90.44.180;

(3) Require the well owner(s), including the senior water right holder, to rehabilitate or abandon the well(s) in accordance with chapter 173-160 WAC in the case of impairment caused by the failure of wells to meet the well construction standards or the requirements of water right permit or certificate provisions, if any;

(4) Rescind authorizations for additional junior withdrawal facilities and/or reduce the authorized withdrawal rates, as appropriate, where the department finds that an appropriation by a junior right holder is the cause of the impairment and where the said junior ground water right holder has not yet completed construction of the authorized withdrawal facilities. The department shall include a provision concerning the possibility of such rescissions as a condition on ground water permits with multiple points of withdrawal.

[Statutory Authority: Chapter 90.44 RCW. 85-12-017 (Order 84-44), § 173-150-080, filed 5/29/85.]

WAC 173-150-090 Voluntary agreements. (1) Notwithstanding the provisions of WAC 173-150-080, should the senior and junior water right holders reach a voluntary agreement which satisfies the concerns stated in the notification of impairment, the department, if it determines that the public interest is fully protected thereby, shall not regulate the withdrawals by the junior water right holder under this regulation.

(2) If such an agreement includes provisions for the delivery of water from another water withdrawal facility to the holder of the senior water right, said agreement shall not take effect until all requirements of RCW 90.44.100 are satisfied or, if a new right to withdraw water is required to be established, a permit is issued pursuant to RCW 90.44.050.

[Statutory Authority: Chapter 90.44 RCW. 85-12-017 (Order 84-44), § 173-150-090, filed 5/29/85.]

WAC 173-150-100 Water quality. As a general rule, an element of a ground water right is the right to use waters of quality appropriate to the beneficial use. In addition to the protection of the availability of ground water to the water withdrawal facilities of ground water right holders, it shall be the policy of the department to protect the quality of the ground waters of the state and in relation thereto to discourage any withdrawal facilities construction methods, water use or disposal practices which would contaminate or otherwise reduce the quality of the ground waters or impair the beneficial uses of ground waters of the state.

[Statutory Authority: Chapter 90.44 RCW. 85-12-017 (Order 84-44), § 173-150-100, filed 5/29/85.]

WAC 173-150-110 Saltwater intrusion and ground water contamination. In addition to the procedures outlined in WAC 173-150-080, the department may regulate or control saltwater intrusion conditions caused by withdrawals from a freshwater aquifer or ground water contamination caused by improper well construction techniques or other causes, through other means, including artificial recharge projects, the importation of additional water from other sources, or any other means deemed by the department to be reasonable, feasible and appropriate.

[Statutory Authority: Chapter 90.44 RCW. 85-12-017 (Order 84-44), § 173-150-110, filed 5/29/85.]

WAC 173-150-120 Applicability. The provisions of this chapter shall apply to all ground water rights and ground water users under state jurisdiction, except that WAC 173-150-080 shall apply only to permits issued or other ground water rights established subsequent to the effective date of this chapter, or to withdrawal facilities which are the subject of an application for change of water right filed pursuant to

RCW 90.44.100 subsequent to the effective date of this chapter. Cases of impairment caused by facilities or ground water rights which are not subject to this chapter shall be subject to existing state laws and regulations.

[Statutory Authority: Chapter 90.44 RCW. 85-12-017 (Order 84-44), § 173-150-120, filed 5/29/85.]

WAC 173-150-125 Enforcement. In enforcement of this chapter, the department of ecology may impose such sanctions as are appropriate under authorities vested in it, including but not limited to the issuance of regulatory orders under RCW 43.27A.190 and civil penalties under RCW 90.03.600.

[Statutory Authority: Chapters 18.104, 43.21A, 43.27A, 90.44 and 90.54 RCW. 88-13-037 (Order 88-11), § 173-150-125, filed 6/9/88.]

WAC 173-150-130 Appeals. All final written decisions of the department of ecology pertaining to permits, regulatory orders, and related decisions made pursuant to this chapter shall be subject to review by the pollution control hearings board in accordance with chapter 43.21B RCW.

[Statutory Authority: Chapters 18.104, 43.21A, 43.27A, 90.44 and 90.54 RCW. 88-13-037 (Order 88-11), § 173-150-130, filed 6/9/88. Statutory Authority: Chapter 90.44 RCW. 85-12-017 (Order 84-44), § 173-150-130, filed 5/29/85.]

WAC 173-150-135 Regulation review. The department of ecology shall initiate a review of the rules established in this chapter whenever new information, changing conditions, or statutory modifications make it necessary to consider revisions.

[Statutory Authority: Chapters 18.104, 43.21A, 43.27A, 90.44 and 90.54 RCW. 88-13-037 (Order 88-11), § 173-150-135, filed 6/9/88.]

WAC 173-150-140 Existing laws and regulations not affected. Nothing in this chapter shall be construed to in any manner limit the authority of the department to administer and enforce the existing water resources laws of the state, including but not limited to chapters 18.104, 90.03, 90.36, 90.44, 90.48 and 90.54 RCW, and regulations promulgated thereunder.

[Statutory Authority: Chapter 90.44 RCW. 85-12-017 (Order 84-44), § 173-150-140, filed 5/29/85.]

Chapter 173-152 WAC
WATER RIGHTS

WAC

173-152-010	Purpose.
173-152-020	Definitions.
173-152-030	Organization and management of work load.
173-152-040	Basin assessments.
173-152-050	Criteria for priority processing of competing applications.
173-152-060	Exceptions.

WAC 173-152-010 Purpose. This rule establishes the framework under which the department can provide for the organization of its work, prioritize basins to be assessed, conduct basin assessments, prioritize investigations of water right applications by geographic areas, and establish criteria for priority processing of applications for new water rights and applications for change or transfer of existing water rights.

[Statutory Authority: RCW 43.21A.064(8) and 43.27A.090(11). 98-06-042 (Order 97-14), § 173-152-010, filed 2/27/98, effective 3/30/98.]

WAC 173-152-020 Definitions. For the purposes of this chapter the following definitions apply:

(1) "Department" means the department of ecology.

(2) "Public water system" means a water supply system as defined in RCW 70.119A.020.

(3) "Applications to change or transfer" means applications made under RCW 90.03.380 or 90.44.100.

(4) "Competing applications" means all existing applications for water right from the same water source, whether for a new water right or for a change or transfer of an existing water right.

(5) "Same water source" or "source of water" means an aquifer or surface water body, including a stream, stream system, lake, or reservoir and any spring water or underground water that is part of or tributary to the surface water body or aquifer, that the department determines to be an independent water body for the purposes of water right administration.

[Statutory Authority: RCW 43.21A.064(8) and 43.27A.090(11). 98-06-042 (Order 97-14), § 173-152-020, filed 2/27/98, effective 3/30/98.]

WAC 173-152-030 Organization and management of work load. (1) The department may establish regions and maintain regional offices or field offices for the purposes of maximizing the efficiency of its work. Regional offices and their geographic jurisdictions as of the effective date of this rule are as follows:

(a) Northwest regional office serving Island, King, Kitsap, San Juan, Skagit, Snohomish, and Whatcom counties;

(b) Southwest regional office serving Clallam, Clark, Cowlitz, Grays Harbor, Jefferson, Lewis, Mason, Pacific, Pierce, Skamania, Thurston, and Wahkiakum counties;

(c) Central regional office serving Benton, Chelan, Douglas, Kittitas, Klickitat, Okanogan, and Yakima counties; and

(d) Eastern regional office serving Adams, Asotin, Columbia, Ferry, Franklin, Garfield, Grant, Lincoln, Pend Oreille, Spokane, Stevens, Walla Walla, and Whitman counties.

(2) The department will make decisions on new water right applications and applications for change or transfer of an existing water right within a region or within a regional or field office's geographic area in the order the application was received except as provided for in subsection (3) of this section and WAC 173-152-050.

(3) The department may, based on the criteria identified in subsection (4) of this section, conduct an investigation and make decisions on one or more water right applications for the use of water from the same water source. Within a regional office, more than one water source may be investigated at a time. When numerous applications for water from the same water source are being investigated, the decisions will be made in the order in which the applications were received. Each application will be considered individually under the requirements of chapters 90.03 and 90.44 RCW.

(4) Criteria for selecting a water source include, but are not limited to:

(a) The number and age of pending applications, and the quantities of water requested;

(b) The ability to efficiently investigate applications because of the availability of data related to water supply and future needs, streamflow needs for instream values, and hydrogeology of the basin;

(c) The ability of the department to support implementation of local land use plans or implementation of water resource plans;

(d) The projected population and economic growth in the area; and/or

(e) The completion of an initial basin assessment as provided for in WAC 173-152-040(5).

[Statutory Authority: RCW 43.21A.064(8) and 43.27A.090(11). 98-06-042 (Order 97-14), § 173-152-030, filed 2/27/98, effective 3/30/98.]

WAC 173-152-040 Basin assessments. (1) The department may conduct assessments to assemble and correlate information related to water use, water availability, the quantity of water allocated to existing rights, claims, instream flow, and the hydrology of a basin to use in making decisions on future water resource allocation and use. The department may also enter into agreements or contracts with public or private parties to conduct assessments. Geographic areas or same water sources within a regional office service area will be identified or considered for assessment in cooperation with federal, state, tribal, and local jurisdictions and other interested parties. In determining a basin or same water source to assess, the department's consideration may include, but is not limited to, the following factors:

(a) The number and age of pending applications, and the quantities of water requested;

(b) The projected population, growth and off-stream needs for water in the area;

(c) Known water quality problems;

(d) Existence of distressed or endangered fish stocks;

(e) Risk of impairment to senior rights (including instream flow rights);

(f) Availability of data related to water supply and future need, streamflow needs for instream values, and hydrogeology of the basin;

(g) The number of claims to water rights submitted pursuant to chapter 90.14 RCW; and

(h) The ability of the department to support local land use activities.

(2) Multiple basin assessments may be conducted within a region at the same time. When the department determines it is in the public interest to conduct a basin assessment, it will:

(a) Publish notice of the intent to conduct a basin assessment once a week, for two consecutive weeks in a newspaper of general circulation within the geographic area;

(b) Hold in abeyance decisions on all competing water right applications in the basin after publication of a notice to initiate a basin assessment and until the initial basin assessment is complete and published except for applications prioritized pursuant to WAC 173-152-050; and

(c) Make decisions on competing applications after the initial basin assessment is complete and published to the extent sufficient information is available.

(3) Initial basin or water source assessments will be conducted to assemble the following existing information:

(a) Physical characterization of the watershed related to:

(i) Climatic impacts to water resources;

(ii) Geology;

(iii) Streamflow trends;

(iv) Ground water elevation trends and the contribution of ground water to streamflows; and

(v) Surface and ground water quality in the basin or water source.

(b) Out-of-stream water use characterization related to:

(i) Water rights, federal rights, and claims to water rights;

(ii) Estimated use of water pursuant to water rights and claims to water rights;

(iii) Water use pursuant to RCW 90.44.050;

(iv) Extent of unauthorized water use; and

(v) Potential future demands for out-of-stream water use in the basin.

(c) Instream water use characterization related to:

(i) National Pollution Discharge Elimination System permits and the need for instream flow for pollution assimilation;

(ii) Fish stocks and habitat requirements;

(iii) Wildlife habitat requirements;

(iv) Recreational requirements; and

(v) Water rights and claims to water rights.

(4) Upon completion and publication of the initial basin assessment, the department in consultation with the public and federal, state, tribal, local jurisdictions and interested parties will evaluate the basin assessment. The evaluation will assess the data, analysis, and presentation of information in the basin assessment in terms of quality, adequacy, and utility to make decisions on future water resource allocation and use.

(5) The department will make decisions on competing applications for water from a source of water within the basin where sufficient information for water resource allocation exists. If the department determines that the information assembled and correlated is not sufficient, the department may withdraw the water source from appropriation pursuant to RCW 90.54.050(2). The department in consultation with the public, federal, state, tribal, local jurisdictions and interested parties will design and conduct additional investigations, to the extent resources allow, to obtain the information necessary to make future decisions on water allocation and use.

(6) The information obtained and compiled during an initial basin assessment of the water resources in a basin or water source will be contained in an open file technical report at the regional or field office.

[Statutory Authority: RCW 43.21A.064(8) and 43.27A.090(11). 98-06-042 (Order 97-14), § 173-152-040, filed 2/27/98, effective 3/30/98.]

WAC 173-152-050 Criteria for priority processing of competing applications. (1) An application may be processed prior to competing applications if the application

resolves or alleviates a public health or safety emergency caused by a failing public water supply system currently providing potable water to existing users. Inadequate water rights for a public water system to serve existing hook-ups or to accommodate future population growth or other future uses do not constitute a public health or safety emergency. The application must be filed specifically to correct the actual or anticipated cause(s) of the public water system failure. To be considered a failing public water system, the system must meet one or more of the following conditions:

(a) The department, upon notification by and in consultation with the department of health or local health authority, determines a public water system has failed, or is in danger of failing within one year, to meet state board of health standards for the delivery of potable water to existing users in adequate quantity or quality to meet basic human drinking, cooking and sanitation needs;

(b) The current water source has failed or will fail so that the public water system is or will become incapable of exercising its existing water right to meet existing needs for drinking, cooking and sanitation purposes after all reasonable conservation efforts have been implemented; or

(c) A change in source is required to meet drinking water quality standards and avoid unreasonable treatment costs, or the state department of health determines that the existing source of supply is unacceptable for human use.

(2) An application may be processed prior to competing applications if the department determines:

(a) Immediate action is necessary for preservation of public health or safety; or

(b) The proposed water use is nonconsumptive and if approved would substantially enhance or protect the quality of the natural environment.

(3) An application for change or transfer to an existing water right may be processed prior to competing applications provided one or more of the following criteria are satisfied:

(a) The change or transfer if approved would substantially enhance the quality of the natural environment; or

(b) The change or transfer if approved would result in providing public water supplies to meet general needs of the public for regional areas;

(c) The change or transfer was filed by water right holders participating in an adjudication, and a decision is needed expeditiously to ensure that orders or decrees of the superior court will be representative of the current water use situation.

(4) Within each regional office, the department shall process applications satisfying the criteria in subsections (1) through (3) of this section in the following priority:

(a) Public health and safety emergencies under subsection (1) of this section;

(b) Preservation of other public health and safety concerns under subsection (2)(a) of this section;

(c) Transfers or changes under subsection (3)(a) of this section;

(d) Transfers or changes under subsection (3)(b) of this section;

(e) Transfers or changes under subsection (3)(c) of this section; and

(f) Nonconsumptive uses under subsection (2)(b) of this section.

[Statutory Authority: RCW 43.21A.064(8) and 43.27A.090(11). 98-06-042 (Order 97-14), § 173-152-050, filed 2/27/98, effective 3/30/98.]

WAC 173-152-060 Exceptions. Nothing in this chapter precludes the department from processing applications or requests filed for temporary permits, preliminary permits or for emergent or emergency circumstances under RCW 43.83B.410, 90.03.383(7), or 90.03.390 and/or where the law provides a specific process for evaluation of an application and issuance of a decision.

[Statutory Authority: RCW 43.21A.064(8) and 43.27A.090(11). 98-06-042 (Order 97-14), § 173-152-060, filed 2/27/98, effective 3/30/98.]

Chapter 173-153 WAC
WATER CONSERVANCY BOARDS

WAC

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WAC 173-153-010 Purpose and authority. The purpose of this chapter is to establish procedures the department of ecology (ecology) and water conservancy boards (conservancy boards) will follow in implementing chapter 90.80 RCW, and in implementing RCW 90.03.380, 90.03.390, and 90.44.100, which govern the granting of water right transfers. Chapter 90.80 RCW authorizes establishment of water conservancy boards and vests them with certain powers relating to water right transfers.

[Statutory Authority: Chapter 90.80 RCW. 99-23-101 (Order 98-11), § 173-153-010, filed 11/17/99, effective 12/18/99.]

WAC 173-153-020 Applicability. These procedures apply to the establishment of water conservancy boards (established in accordance with chapter 90.80 RCW) and to how applications to transfer water rights that are filed with a water conservancy board will be processed.

[Statutory Authority: Chapter 90.80 RCW. 99-23-101 (Order 98-11), § 173-153-020, filed 11/17/99, effective 12/18/99.]

WAC 173-153-030 Definitions. For the purposes of this chapter, unless the context clearly indicates otherwise, the following definitions apply:

(1) "Application" means an application for a transfer of a water right, including those proposed under authority of RCW 90.03.380, 90.03.390 and 90.44.100. Application generally refers to filings made on an ecology form titled "appli-

cation for change/transfer of water right," number 040-1-97, or as that form may be amended by ecology in the future.

(2) "Conditional decision" means the conclusion reached by an individual conservancy board regarding approval or denial of an application to transfer an existing water right.

(3) "Consumptive use" means use of water whereby there is a diminishment of the water source.

(4) "Source" means the water body from which water is or would be diverted or withdrawn under an existing water right which an applicant has proposed to be transferred.

(5) "Transfer" means an alteration, in whole or in part, in the point of diversion or withdrawal, purpose of use, place of use, or change or amendment of a water right, or other limitation or circumstance of water use approved in accordance with RCW 90.03.380, 90.03.390 or 90.44.100.

[Statutory Authority: Chapter 90.80 RCW. 99-23-101 (Order 98-11), § 173-153-030, filed 11/17/99, effective 12/18/99.]

WAC 173-153-040 Creation of a water conservancy board. Counties are encouraged to consult with ecology when considering formation of a water conservancy board.

(1) Creation of a water conservancy board is accomplished by the following steps:

(a) A resolution or petition must be submitted to the county legislative authority calling for formation of a water conservancy board. The resolution or petition may be initiated by:

(i) The county legislative authority;

(ii) The legislative authority of an irrigation district, a public utility district that operates a public water system, a reclamation district, a city operating a public water system, or a water-sewer district that operates a public water system;

(iii) The governing body of a cooperative or mutual corporation that operates a public water system serving one hundred or more accounts;

(iv) Five or more water rights holders who divert water for use in the county; or

(v) Any combination of the above;

(b) The resolution or petition must include:

(i) A statement of the need for the board;

(ii) Proposed bylaws that will govern the operation of the board;

(iii) An identification of the geographic boundaries where there is an initial interest in transacting water sales or transfers; and

(iv) A description of the proposed method(s) for funding the operation of the board;

(c) A public hearing must be held by the county legislative authority on the proposed creation of the board;

(d) A public notice must be published in a newspaper of general circulation in the county not less than ten days, nor more than thirty days, before the date of a public hearing to be held by the county legislative authority on the proposed creation of the water conservancy board. The notice shall describe the time, date, place and purpose of the hearing, as well as the purpose of the board. Notice must be sent to ecology's regional office at the time of publication and an effort should be made to ensure that any watershed planning unit or Indian tribe with an interest in water rights in the county also receives the notice;

(e) After the public hearing a resolution must be adopted by the county legislative authority approving the creation of a water conservancy board; and

(f) The county legislative authority shall identify and select county residents who wish to participate on the county's water conservancy board.

(2) Ecology will approve or deny creation of a water conservancy board within forty-five days of receiving:

(a) A copy of a resolution or petition to the county legislative authority calling for the formation of a water conservancy board. If five water rights holders who divert water for use in the county initiated the petition, it must include their names, addresses, and documentation as to the water rights held by the petitioners. Documentation may include the permit number, certificate number, or claim number of the petitioner's water right. The petition must include a description of how the water conservancy board will be funded;

(b) An affidavit of publication for the public notice that appeared in a newspaper of general circulation in the county not less than ten days nor more than thirty days before the date of the public hearing on the proposed creation of the board;

(c) A summary of the public testimony presented during the public hearing conducted by the county legislative authority in response to the resolution or petition to form a water conservancy board. The summary shall include a title and a date for the hearing;

(d) A copy of the resolution by the county legislative authority approving the creation of a water conservancy board. The resolution must include a method for funding the proposed water conservancy board; and

(e) A copy of the board's proposed bylaws.

(3) Ecology will determine if the creation of a water conservancy board will further the purposes of the law and will be in the public interest. The public interest includes, but is not limited to, whether ecology has sufficient staffing resources to provide necessary training, monitoring, and technical assistance to the board and to make timely responses to the board's anticipated conditional decisions on applications.

(4) Based on its determination, ecology will approve or deny the formation of the water conservancy board. If formation of a water conservancy board is approved, ecology will include a description of the training requirements as outlined in WAC 173-153-050 for water conservancy board members in its approval.

(5)(a) Ecology may revoke legal authority of a board to make conditional decisions in the following circumstances:

(i) If the board fails to render a conditional decision for a period of not less than two years; or

(ii) If the board demonstrates a pattern of ignoring legal principles and requirements in its processing of applications or in its conditional decisions; or

(iii) If requested by the county legislative authority that called for the board's formation.

(b) The board will be allowed thirty days to respond to any revocation before it becomes effective. Ecology may reverse the revocation based upon the board response.

[Statutory Authority: Chapter 90.80 RCW. 99-23-101 (Order 98-11), § 173-153-040, filed 11/17/99, effective 12/18/99.]

WAC 173-153-050 Training requirements. (1) Before participating in any conditional decision of a water conservancy board, every member is required to complete a training program provided by ecology. Successful completion of the training program will consist of:

(a) Completing at least thirty-two hours of instruction regarding hydrology, state water law, state water policy, administrative and judicial case law developments, field practices, evaluation of existing water rights, and applied practical experience working with applications for transfer of water rights with ecology staff; and

(b) Demonstrating sufficient mastery of the training curriculum by passing an examination given by an ecology employee upon completion of the minimum training.

(2) Ecology will certify in writing to the appropriate county legislative authority the successful completion of the training program for water conservancy board members and staff.

(3) After completing one year of service on a water conservancy board, members must each year complete eight hours of continuing education directed or approved by ecology. Continuing education may include readings, seminar or field experience on state water law, state water policy, administrative and judicial case law developments, field practices, the evaluation of existing water rights, or hydrology.

Ecology may, at its discretion, in response to demand, provide training semiannually. Ecology may combine training for more than one board.

[Statutory Authority: Chapter 90.80 RCW. 99-23-101 (Order 98-11), § 173-153-050, filed 11/17/99, effective 12/18/99.]

WAC 173-153-060 Scope of authority of water conservancy boards. (1) A water conservancy board may accept an application for transfer of a surface or ground water right for processing if the water right is currently used within, or if approved, will be used within the boundaries of the county in which the board has jurisdiction. The application may be for a permanent or seasonal (temporary) use. The board shall investigate the application and make a determination whether the proposal should be approved or denied and, if approved, under what conditions the approval should be granted. In this process, boards should determine whether a watershed planning unit is involved in planning related to the source of water that would be affected by the application and, if so, the board should notify and consider comments from the watershed planning unit prior to issuing its conditional decision.

(2)(a) Applications for transfers that propose to use water from the same source must generally be processed in the order in which they were filed. Exceptions are outlined in chapter 173-152 WAC.

(b) Decisions on applications must be made by a board in the order in which the applications were originally filed with the board or with ecology, if the applications were first filed with ecology. Exceptions are as outlined in WAC 173-152-050 or as follows:

(i) Applications to alleviate public health and safety emergencies, as specified in WAC 173-152-050(1), may be processed before competing applications; and

(ii) If review of an application has begun and the board determines that gathering more information than is available at the time of the review is required, the board need not await the availability of the additional information before reviewing the next application awaiting action.

(c) A conservancy board must take into consideration the effect of a proposed transfer on the availability of water for any applications for new water rights, as well as any applications for transfers that were previously filed with ecology for water from the same source as the application under consideration by the board. Ecology will cooperate with conservancy boards to resolve any problems associated with conflicting applications. The availability of water for senior applicants, including those applicants who have filed transfer applications with ecology rather than a conservancy board, must not be impaired, regardless of the order in which applications are processed.

(3) The quantity of water appropriated under a water right may not be expanded. For agricultural use, the acreage irrigated may not be expanded, except in limited circumstances allowed in RCW 90.03.380 in which the consumptive use under the water right is not increased.

(4) Any water right or portion of a water right that has not previously been put to actual beneficial use cannot be transferred, except as authorized by RCW 90.44.100. Transfer of previously unused ground water rights under RCW 90.44.100 is limited to changing the place of use and the point of withdrawal.

(5) No applicant may be compelled to apply for a transfer with a conservancy board. Applicants have the option of applying directly to ecology rather than a water conservancy board.

[Statutory Authority: Chapter 90.80 RCW. 99-23-101 (Order 98-11), § 173-153-060, filed 11/17/99, effective 12/18/99.]

WAC 173-153-070 Application for transfer of a water right. (1) Water conservancy boards may accept applications for transfer of water rights. Ecology will provide water right transfer application forms and applicant instructions to water conservancy boards, which will make them available to prospective applicants. All applications to the water conservancy board must be made using the water right transfer form supplied by ecology. The decision to file a transfer application with a conservancy board rather than directly with ecology is solely at the discretion of the applicant. The conservancy board and ecology will inform any prospective applicants that they have the option of filing either with the board or with ecology.

(2) The board shall ensure that the application is complete and legible and is accompanied by the minimum ten-dollar examination fee required by RCW 90.03.470(1). The board may establish and charge additional fees in accordance with RCW 90.80.060(2).

(3) The original application form and the statutory state application fee must be forwarded by the conservancy board to the appropriate ecology regional office within five working days of the date of receipt. Within thirty working days from the date of notice from the board, ecology will assign a state water right control number to the application and inform the water conservancy board of the assigned number. Ecology will open a file relating to the application that will be

maintained for permanent recordkeeping. Ecology will inform the applicant if additional state fees are due.

(4) If an applicant makes a request to a water conservancy board that an application previously filed with ecology be reviewed by that conservancy board, the conservancy board must determine whether it will review the application. If the conservancy board determines that it will review that application, the board shall make a request to ecology, and ecology shall forward a copy of the application and all relevant documents to the conservancy board.

(5) A board may decline to process or continue processing an application at any time. The board will inform the applicant in writing of its decision to decline further consideration of the application within fourteen working days. The board must forward to ecology the working file for the specific transfer and any state application fees that have not previously been forwarded to ecology. The board must also provide a written explanation to ecology regarding its decision not to process or finish processing the application.

(6) The board must ensure that copies of the application are properly distributed to interested parties in compliance with existing laws, ecology memoranda of understanding, policies and other guidance. To assist the board, ecology will provide a list of potentially interested parties.

[Statutory Authority: Chapter 90.80 RCW. 99-23-101 (Order 98-11), § 173-153-070, filed 11/17/99, effective 12/18/99.]

WAC 173-153-080 Public notice. (1) The water conservancy board shall publish, or require the applicant to publish, a public notice of the proposed transfer of a water right in accordance with RCW 90.03.280, at least once a week for two consecutive weeks in the legal notice section of a newspaper of general circulation in at a minimum the county or counties of proposed water use, diversion and storage of water. Ecology must provide the board with a list of newspapers acceptable for this purpose. Additional public notice may be required in areas that may be affected by the transfer proposal. The public notice of each individual application for transfer must include the following information, in the following order:

(a) Applicant's name and city or county of residence;

(b) Application number assigned by ecology;

(c) Water right priority date;

(d) Description of the water right to be transferred, including any identifying number, the location of point of diversion or withdrawal, place of use, and instantaneous and annual quantities authorized;

(e) Proposed transfers to be made, including location of point of diversion or withdrawal, place of use, or instantaneous and annual quantities authorized;

(f) Manner and time limit for filing protests with ecology under RCW 90.03.470; and

(g) Manner and time limit for intervening before the board under RCW 90.80.070(4).

A copy of the public notice will be sent to ecology's regional office.

(2) Before acting on an application, the board must first receive a notarized affidavit of publication from each newspaper in which notice was published verifying that publication correctly occurred. The board must also allow at least thirty days for the filing of protests or objections following the last date of publication of the notice before making a final decision.

(3) When an applicant substantively amends the application for a transfer of a water right subsequent to publication of the notice, or when a substantive error or omission occurs in the publication, the public notice must be republished in all newspapers of original publication, and reviewing agencies must be sent corrected copies of any amended transfer proposal.

[Statutory Authority: Chapter 90.80 RCW. 99-23-101 (Order 98-11), § 173-153-080, filed 11/17/99, effective 12/18/99.]

WAC 173-153-090 Protests. (1) A protest of an application that has been filed with a water conservancy board must be received by ecology with the two-dollar protest fee within thirty days of the last date of publication of the public notice. Ecology will consider all pertinent protests during its review of the board's conditional decision on the application. Persons inquiring of the board or ecology regarding protest procedures will be directed to file the protest with ecology. Ecology will provide a copy of the protest to the appropriate board.

(2) A valid protest must include the name, address and phone number (if any) of the protesting party; identification of the transfer proposal being protested; and a statement regarding the basis for the protest. Proper basis for a protest must include:

(a) The impacts of the proposed transfer on other water rights; or

(b) The impacts of the proposed transfer on the public interest; or

(c) A challenge to the potential extent and validity of the water right proposed to be transferred.

(3) The board must immediately forward to ecology any protests that it receives in error, accompanied by the two-dollar protest fee if it was included with the protest.

(4) Any protest received thirty days after the last date of publication of the public notice, or without the required fee, will be filed as a letter of concern.

[Statutory Authority: Chapter 90.80 RCW. 99-23-101 (Order 98-11), § 173-153-090, filed 11/17/99, effective 12/18/99.]

WAC 173-153-110 Examination of application. (1) A water conservancy board shall make its conditional decision on a transfer application based on applicable state law, rules, policies, and ecology guidance. In addition to specific water law, other relevant state laws, including the Growth Management Act, must be considered.

(2) Generally, a board should conduct a field examination of the site of the proposal, clarify any unclear information by contacting the applicant, and discuss the concerns of protesters and objectors with the persons who filed them. All relevant information must be collected and considered in the examination. Detailed hydrological or hydrogeological information may need to be collected or other research conducted or compiled. A board may require the applicant to provide additional information at the applicant's expense if that information is necessary to render an informed conditional decision on the application.

(3) A board must consider all comments received about the pending application. In this process, boards should determine whether an Indian tribe, watershed planning unit, or other governmental body is involved in planning or water management related to the source of water that would be affected by the application. If this is the case, the board should engage the tribe, watershed planning unit or governmental body in the board's effort to obtain information concerning the application.

(4) A water conservancy board must evaluate the application, including the entire water rights record, and determine whether or not the transfer as proposed is in accordance with applicable laws, rules, policies and guidelines of ecology. The board must also make a tentative determination as to the extent and validity of the water right proposed to be transferred, whether the transfer can be made without injury or detriment to existing rights, and whether the proposed transfer is not detrimental to the public interest.

(5) A water conservancy board shall ensure that the requirements of the State Environmental Policy Act (SEPA), chapter 43.21C RCW, and the SEPA rules, chapter 197-11 WAC, have been met before finalizing a conditional decision, and if determined by the board to be appropriate under WAC 197-11-922 through 197-11-944, the board will be the lead agency for SEPA compliance.

(6) A water conservancy board shall consult with ecology if it encounters new, unusual, or controversial issues in the course of examining an application. Ecology will provide assistance and advice as to how to proceed in accordance with state law, rule, policy and sound administrative practice.

(7) If a geographical area within the jurisdiction of a conservancy board is or becomes the subject of an adjudication conducted by a superior court for the determination of water rights, ecology will seek guidance from the superior court regarding the court's role in administering the water rights that are subject to the adjudication. Thereafter, ecology shall advise the conservancy board on whether and how the board may proceed to evaluate and make conditional decisions on applications for transfers of water rights that are subject to the adjudication being conducted by the superior court. When a board receives an application for transfer of a water right that is in an area subject to an ongoing general water rights adjudication process, and a public notice has been published, the board must send a copy of the public notice regarding the application to ecology, which will then submit the notice to the court conducting the adjudication. When a board makes a conditional decision on a transfer of a water right that is in an area subject to an ongoing general water rights adjudication process, a copy of the conditional decision must be sent to ecology, which will forward the conditional decision to the court conducting the adjudication.

[Statutory Authority: Chapter 90.80 RCW. 99-23-101 (Order 98-11), § 173-153-110, filed 11/17/99, effective 12/18/99.]

WAC 173-153-120 Interventions and protests. (1) Any water right holder claiming detriment or injury to an existing water right may intervene in the application review process before the water conservancy board. Actions by the water conservancy board are independent from those of ecology. Ecology's final decisions based upon water conservancy board's conditional decisions are subject to administrative and judicial review.

(2) A party who intervenes in a water conservancy board conditional decision is not considered to be a protesting party unless the party has also filed a timely protest with ecology. Protests must be filed with ecology in accordance with WAC 508-12-120 and will be evaluated by ecology concurrently with its review of the water conservancy board conditional decision. Ecology will also consider other objections and comments in the record, including the record of any hearings held by the board, when it makes its review of the board's conditional decision.

[Statutory Authority: Chapter 90.80 RCW. 99-23-101 (Order 98-11), § 173-153-120, filed 11/17/99, effective 12/18/99.]

WAC 173-153-130 Conditional decision by water conservancy board. (1) The water conservancy board's conditional decision must be in writing, and its record of decision becomes part of the public record.

(2) For applications that are proposed to be denied, the water conservancy board will issue a record of decision denying the transfer, subject to review and final determination by ecology.

(3) For applications for transfer that are proposed to be affirmed, the water conservancy board will issue the applicant a record of decision and a certificate of conditional approval, subject to review and final approval by ecology.

(4) The record of decision along with either the certificate of conditional approval or the notice of denial will each address the following:

(a) Within a section entitled "background":

(i) A description of the water right proposed for transfer to include the ecology-assigned application number, and the board's tentative determination as to the validity and quantification of the right, together with a description of the historical water use information that was considered by the board;

(ii) A description of any protests, objections or comments, including comments provided by other agencies, Indian tribes, or other interested parties, and the board's analysis of each issue considered, including the name and address of individual intervenors;

(iii) A discussion explaining compliance with the State Environmental Policy Act;

(b) Within a section entitled "investigation":

(i) An analysis of the effect of the proposed transfer on other water rights, pending applications, and instream flows established under state law;

(ii) A narrative description of any other water rights or other water uses associated with both the current and proposed place of use and an explanation of how those other rights or uses will be exercised in harmony with the right proposed to be transferred;

(iii) An analysis of the effect of the transfer on the public interest;

(iv) Any conditional decision or conclusion that an existing water right or portion of a water right has been relinquished or abandoned due to nonuse;

(v) A description of the results of any geologic, hydrogeologic or other scientific investigations that were considered by the board;

(c) Within a section entitled "conclusion": A list of conclusions that the board drew from the information related to the transfer proposal;

(d) Within a section entitled "conditional decision": A complete description of the board's conditional decision;

(e) Within a section entitled "provisions":

(i) Conditions and limitations recommended for inclusion in an approval or other corrective action necessary to maintain the water use in compliance with state laws or rules;

(ii) A description of any requirement to mitigate adverse effects on other water rights, the water source, or the public interest; and

(iii) A schedule for development and completion of the transfer to a water right, if approved in part or in whole, that includes a definite date for completion of the transfer and the application of water to authorized beneficial use.

(5) A water conservancy board's conditional decision and certificate is not a final authorization to transfer the water right. Only after ecology has approved the conditional decision and has issued an order authorizing the transfer, or has failed to act within the time frame established in RCW 90.80.080, is the applicant allowed to initiate the transfer of the water right.

[Statutory Authority: Chapter 90.80 RCW. 99-23-101 (Order 98-11), § 173-153-130, filed 11/17/99, effective 12/18/99.]

WAC 173-153-140 Notification of conditional decision. (1) The water conservancy board shall send notice of its conditional decision as to whether the transfer should be approved or denied, by mail to the applicant, ecology, to any person who protested or objected to the transfer, to any persons who requested notice of its conditional decision, and to any commenting agency or tribe. The board shall transmit notification of its conditional decisions to all parties on the same day, and will note that it has been sent to ecology. Ecology shall identify the location designated for submission of the board's conditional decision.

(2) Boards must fully document their process of arriving at a conditional decision regarding water right applications. All original public documents received or developed by a water conservancy board and used during its deliberations for decision making for each application for transfer of a water right must be sent, with a clear copy of the conditional decision, to ecology at the location designated by ecology for permanent recordkeeping, within seven working days after the board has rendered its conditional decision. The board must retain a copy of all documents; any documents used in reaching a conditional decision regarding a water right transfer application must not be destroyed or disposed of, except as allowed by state statute.

(3) Any comments or objections that are received by the water conservancy board on its conditional decision within thirty days after a final decision is issued by ecology must be forwarded to ecology within five working days, at the location designated for submission of the board's determination.

[Statutory Authority: Chapter 90.80 RCW. 99-23-101 (Order 98-11), § 173-153-140, filed 11/17/99, effective 12/18/99.]

WAC 173-153-150 Ecology's review of the board's conditional decision. (1) Ecology will review conditional decisions of approvals and denials made by water conservancy boards. Upon receipt of a conditional decision made by a water conservancy board, ecology will review the conditional decision for compliance with state water laws and rules, policies or guidelines. As part of this review, ecology will also consider agency and tribal comments, any protests or objections filed by parties alleging that one or more of their water rights would be impaired by the transfer, and any other comments received regarding the conditional decision by the board.

(2) Ecology may affirm, reverse, or modify the conditional decision of the board. Ecology's decision will be made in the form of a written administrative order and must be issued within forty-five days of receipt of the board's conditional decision. If ecology fails to act within the forty-five-day time period, the board's conditional decision becomes final. The forty-five-day time period may be extended an additional thirty days by ecology's director upon the written consent of the parties to the transfer.

(3) If ecology modifies the conditional decision by the water conservancy board, ecology shall send a notice of modification of the conditional decision that specifies which parts of the conditional decision it was in agreement with, and which parts of the conditional decision it has modified. If ecology reverses the conditional decision by the conservancy board, ecology shall send a notice of reversal of the conditional decision with an explanation of the reversal.

(4) Ecology will send notice of its decision to all parties on the same day. Notice of ecology's decision will be sent by mail within five working days to the water conservancy board, the applicant, any person who protested or intervened before the board, persons who requested notice of its decision, the Washington department of fish and wildlife, and any affected Indian tribe.

(5) If ecology fails to act within the specified time after receipt of the board's conditional decision, the board's action is final. The conservancy board shall notify ecology, the applicant, and any parties that have expressed interest to the conservancy board about the application, of ecology's failure to act. If ecology concurs that the review period has lapsed, ecology will send a notice to the board that the conditional decision is final.

[Statutory Authority: Chapter 90.80 RCW. 99-23-101 (Order 98-11), § 173-153-150, filed 11/17/99, effective 12/18/99.]

WAC 173-153-160 Perfection of a transfer approval. (1) When an approved transfer has been perfected, the person authorized to transfer a water right must submit evidence to ecology showing the transfer has been completed in accordance with the order authorizing the transfer of the water right. Ecology will issue a change certificate or a superseding certificate to the water right holder(s) to document that the approved transfer was accomplished upon verification of the extent of development as authorized. When the document is issued, ecology shall provide a copy to the conservancy board for its records if requested. The document will also be recorded at the applicant's expense by the county in which the use of water is made.

(2) If development of the approved transfer is not completed in accordance with the development schedule that

accompanies the approval, extensions may be requested and will be processed under standard procedures by ecology.

(3) If the person authorized to transfer a water right fails to accomplish the transfer in accordance with the authorization, ecology will cancel the transfer authorization and the water right will revert to the original configuration, less any quantity that was relinquished for nonuse in connection with ecology's review of the conservancy board's conditional decision.

[Statutory Authority: Chapter 90.80 RCW. 99-23-101 (Order 98-11), § 173-153-160, filed 11/17/99, effective 12/18/99.]

WAC 173-153-170 Reporting requirements. Boards are required to submit reports to ecology on their activities at the end of October of each even-numbered year. The reports must include information about board activities during the previous twenty-four months. The reports shall contain the following information:

(1) Information about applications to the board to include the following:

(a) Number of applications filed with the board by water resources inventory area (WRIA);

(b) Number of applications that received a public hearing to hear intervenors;

(c) Number of conditional decisions approving or partially approving an application;

(d) Number of conditional decisions denying an application;

(e) Number of applications for transfer of surface or ground water;

(f) Number of applications to transfer a claim or certificate;

(g) Number of applications filed directly with the conservancy board, and number transferred from ecology to the board; and

(h) Number of hearings held within other counties when water rights were proposed to be changed between counties.

(2) Operations of the board to include the following:

(a) Chairperson of the board;

(b) Changes in membership of the board, including background and contact information for any new members;

(c) Current fees or changes to previous fees;

(d) Training received other than from ecology;

(e) Ownership of any properties by the conservancy board;

(f) Water marketing activities and any related fees;

(g) Number of staff that are employed by, and staff that provide volunteer service to, the board; and

(h) Any litigation in which the board is involved.

[Statutory Authority: Chapter 90.80 RCW. 99-23-101 (Order 98-11), § 173-153-170, filed 11/17/99, effective 12/18/99.]

WAC 173-153-180 Appeals. Any person aggrieved by ecology's decision to approve or disapprove the establishment of a conservancy board, or ecology's decision to affirm, reverse or modify the determination of a conservancy board on an application for transfer of a water right, may appeal the decision to the state pollution control hearings board in accordance with chapter 43.21B RCW.

[Statutory Authority: Chapter 90.80 RCW. 99-23-101 (Order 98-11), § 173-153-180, filed 11/17/99, effective 12/18/99.]

WAC 173-153-190 Existing rights not affected. Nothing in this chapter is intended to impair any existing water rights.

[Statutory Authority: Chapter 90.80 RCW. 99-23-101 (Order 98-11), § 173-153-190, filed 11/17/99, effective 12/18/99.]

WAC 173-153-200 Review of chapter. This chapter must be reviewed by ecology whenever new information, changing conditions, or statutory modifications make it necessary to consider revisions. In carrying out a review of this chapter, ecology shall consult with existing conservancy boards.

[Statutory Authority: Chapter 90.80 RCW. 99-23-101 (Order 98-11), § 173-153-200, filed 11/17/99, effective 12/18/99.]

Chapter 173-154 WAC
PROTECTION OF UPPER AQUIFER ZONES

WAC

173-154-010	Background.
173-154-020	Purpose.
173-154-030	Authority.
173-154-040	Definitions.
173-154-050	Protection of upper aquifer zones.
173-154-060	Inspections and tests.
173-154-070	Rehabilitation of withdrawal facilities.
173-154-080	Deepening of withdrawal facilities.
173-154-090	Applicability.
173-154-095	Enforcement.
173-154-100	Appeals.
173-154-105	Regulation review.
173-154-110	Existing laws and regulations not affected.

WAC 173-154-010 Background. In many parts of the state ground water aquifers exist at various depths below land surface. Such aquifers or groups of such aquifers may demonstrate a natural hydraulic separation to a significant degree over local or regional areas as evidenced, in part, by differing hydraulic heads and variable responses to pumping stress. The upper aquifer or upper aquifer zone often will not yield water in sufficient or sustainable quantities for uses which require a large volume of water. Therefore, they have often been traditionally used for domestic water supplies, stockwatering and other uses that require only minimal water supplies and for which it is not cost effective to tap deeper aquifers. Further, the uppermost aquifers also commonly contribute to spring and stream flows. In some cases, the withdrawal of water from the lower aquifers causes the depletion of the upper aquifers through cascading waters or simultaneous withdrawals from both upper and lower aquifers, and in such cases, poor quality waters from one zone can also contaminate a different aquifer zone.

[Statutory Authority: Chapters 90.44 and 90.54 RCW. 85-12-018 (Order 84-45), § 173-154-010, filed 5/29/85.]

WAC 173-154-020 Purpose. The purpose of this chapter is to establish and set forth the policies and procedures of the department of ecology in regard to the protection of the occurrence and availability of ground water within the upper aquifers or upper aquifer zones where there are multiple aqui-

fer systems. Consistent therewith, the department shall manage the state's ground water resources in a manner that protects, to the extent practicable, the upper aquifers of multiple aquifer systems from depletions, excessive water level declines or reductions in water quality, and which recognizes that the highest and best use of the waters of limited capacity aquifers may be for domestic, stockwater and other similar uses and for the preservation of spring and stream flows.

[Statutory Authority: Chapters 90.44 and 90.54 RCW. 85-12-018 (Order 84-45), § 173-154-020, filed 5/29/85.]

WAC 173-154-030 Authority. This chapter is promulgated by the department of ecology pursuant to chapters 18.104, 43.21A, 90.44 and 90.54 RCW.

[Statutory Authority: Chapters 90.44 and 90.54 RCW. 85-12-018 (Order 84-45), § 173-154-030, filed 5/29/85.]

WAC 173-154-040 Definitions. For the purposes of this chapter the following definitions shall apply:

(1) "Department" means the Washington state department of ecology.

(2) "Ground water right" means an authorization to use ground water established pursuant to chapter 90.44 RCW, state common or statutory law existing prior to the enactment of chapter 90.44 RCW, or federal law.

(3) "Withdrawal facilities" means and includes any well, infiltration trench or other excavation that is drilled, cored, bored, washed, driven, dug, jetted or otherwise constructed, together with the casing, screen, pump, pump column, motor and related equipment which is used for the withdrawal of ground water.

(4) "Aquifer" means any geologic formation that will yield water to a well or other withdrawal facilities in sufficient quantity for beneficial use.

(5) "Ground water" means all waters that exist beneath the land surface or beneath the bed of any stream, lake or reservoir, or other body of surface water, whatever may be the geological formation or structure in which such water stands or flows, percolates or otherwise moves.

(6) "Multiple aquifer system" means any geologic formation(s) which contains distinct aquifers at different depths that exhibit a significant degree of local or regional hydraulic separation.

(7) "Upper aquifer zone" means all aquifers within a multiple aquifer system lying between the land surface and a depth or geologic formation, as determined by the department consistent with the purposes of this chapter, or as set forth in the ground water subarea management program for the area, if one exists.

(8) "Lower aquifer zone" means any aquifers occurring at a depth below the upper aquifer zone, as determined by the department, or as set forth in the ground water subarea management program for the area, if one exists.

(9) "Cascading waters" means any ground waters which fall or flow through a well or other withdrawal facilities, from one ground water aquifer to another.

(10) "Rehabilitation of withdrawal facilities" means the work necessary to reconstruct or modify existing withdrawal facilities in order to bring them into conformance with applicable laws, regulations, permit or certificate provisions and orders of the department.

[Statutory Authority: Chapters 90.44 and 90.54 RCW. 85-12-018 (Order 84-45), § 173-154-040, filed 5/29/85.]

WAC 173-154-050 Protection of upper aquifer zones. In any multiple aquifer system, where the department determines that the uppermost aquifers or upper aquifer zone will not sustain large volume ground water withdrawals without exceeding the safe sustaining yield or causing (1) adverse effects to existing water rights, (2) an unreasonable drop in the water table, (3) permanent damage to the aquifer through depletion of the aquifer or zone, (4) an impairment of the beneficial use of the ground waters arising from a modification of the water quality, or (5) depletions of spring or stream flows, the department shall require new or additional large volume withdrawals to be restricted to a lower aquifer zone. Permits for withdrawals of water from such lower aquifer zones may specify an approved manner of construction of the withdrawal facilities, including but not limited to, a minimum and maximum well depth, specific casing and sealing requirements, and the construction of monitoring wells for the purpose of periodic measurements in areas where the aquifers cannot be readily monitored through the use of existing wells.

[Statutory Authority: Chapters 90.44 and 90.54 RCW. 85-12-018 (Order 84-45), § 173-154-050, filed 5/29/85.]

WAC 173-154-060 Inspections and tests. The department may require inspections and/or tests of withdrawal facilities prior to their use in order to ensure compliance with any construction requirements imposed by the department pursuant to this chapter. Such inspections and tests shall be performed at the expense of the holder of the permit, except that there shall be no charge for any portions of such tests or inspections which are performed by department employees. If it is the determination of the department that the facilities are not properly constructed or that the facilities may adversely affect the upper aquifers or upper aquifer zone, the department may (1) require further construction and/or testing of the facilities, or (2) require abandonment of the facilities in accordance with chapter 173-160 WAC, or (3) revoke the permit.

[Statutory Authority: Chapters 90.44 and 90.54 RCW. 85-12-018 (Order 84-45), § 173-154-060, filed 5/29/85.]

WAC 173-154-070 Rehabilitation of withdrawal facilities. The department may require the rehabilitation of existing withdrawal facilities if it finds that the facilities were not constructed or are presently not in accordance with the permit provisions, if any, or the applicable laws and regulations of the department which were in effect at the time of construction of the facilities, and that the withdrawal of waters from such facilities will adversely affect the upper aquifers or upper aquifer zone. The department shall allow a reasonable period for completion of such rehabilitation.

[Statutory Authority: Chapters 90.44 and 90.54 RCW. 85-12-018 (Order 84-45), § 173-154-070, filed 5/29/85.]

WAC 173-154-080 Deepening of withdrawal facilities. At any time that the holder of a valid ground water right proposes to deepen a withdrawal facility, the modification of the facility shall be made in such a manner as to preclude the occurrence of cascading waters. Such a facility shall not be deepened to tap a different body of public ground water, or a different aquifer zone where such zones have been determined by the department, without further appropriate authorization from the department.

[Statutory Authority: Chapters 90.44 and 90.54 RCW. 85-12-018 (Order 84-45), § 173-154-080, filed 5/29/85.]

WAC 173-154-090 Applicability. The provisions of this chapter shall apply to all ground water rights under state jurisdiction, except that WAC 173-154-050 and 173-154-060 shall apply only to permits issued or other ground water rights established subsequent to the effective date of this chapter and to withdrawal facilities which are the subject of an application for change of water right filed pursuant to RCW 90.44.100 subsequent to the effective date of this chapter.

[Statutory Authority: Chapters 90.44 and 90.54 RCW. 85-12-018 (Order 84-45), § 173-154-090, filed 5/29/85.]

WAC 173-154-095 Enforcement. In enforcement of this chapter, the department of ecology may impose such sanctions as are appropriate under authorities vested in it, including but not limited to the issuance of regulatory orders under RCW 43.27A.190 and civil penalties under RCW 90.03.600.

[Statutory Authority: Chapters 43.21A, 43.27A, 90.03 and 90.44 RCW. 88-13-037 (Order 88-11), § 173-154-095, filed 6/9/88.]

WAC 173-154-100 Appeals. All final written decisions of the department of ecology pertaining to permits, regulatory orders, and related decisions made pursuant to this chapter shall be subject to review by the pollution control hearings board in accordance with chapter 43.21B RCW.

[Statutory Authority: Chapters 43.21A, 43.27A, 90.03 and 90.44 RCW. 88-13-037 (Order 88-11), § 173-154-100, filed 6/9/88. Statutory Authority: Chapters 90.44 and 90.54 RCW. 85-12-018 (Order 84-45), § 173-154-100, filed 5/29/85.]

WAC 173-154-105 Regulation review. The department of ecology shall initiate a review of the rules established in this chapter whenever new information, changing conditions, or statutory modifications make it necessary to consider revisions.

[Statutory Authority: Chapters 43.21A, 43.27A, 90.03 and 90.44 RCW. 88-13-037 (Order 88-11), § 173-154-105, filed 6/9/88.]

WAC 173-154-110 Existing laws and regulations not affected. Nothing in this chapter shall be construed to limit in any manner the authority of the department to administer and enforce the existing water resources laws of the state, including but not limited to chapters 18.104, 90.03, 90.36, 90.44, 90.48 and 90.54 RCW, and regulations promulgated thereunder.

[Statutory Authority: Chapters 90.44 and 90.54 RCW. 85-12-018 (Order 84-45), § 173-154-110, filed 5/29/85.]

Chapter 173-158 WAC
FLOOD PLAIN MANAGEMENT

WAC

173-158-010 Authority.
173-158-020 Purpose.
173-158-030 Definitions.
173-158-040 Regulatory area.
173-158-045 Technical assistance.
173-158-050 Criteria for land management and use.
173-158-064 Additional state requirements.
173-158-070 Additional floodway requirements.
173-158-080 Wetlands management.
173-158-084 Submittal of local ordinances.
173-158-086 Local option to exceed minimum requirements.
173-158-090 Penalties and enforcement.
173-158-120 Variances.

DISPOSITION OF SECTIONS FORMERLY CODIFIED IN THIS CHAPTER

173-158-060 Additional state requirements. [Statutory Authority: RCW 86.16.061. 89-07-022 and 90-06-059 (Order 88-57 and 88-57A), § 173-158-060, filed 3/7/89 and 3/6/90, effective 4/6/90. Statutory Authority: Chapter 86.16 RCW. 88-10-058 (Order 88-6), § 173-158-060, filed 5/4/88.] Repealed by 90-21-089, filed 10/19/90, effective 11/19/90. Statutory Authority: RCW 86.16.061.

173-158-100 Local compliance schedule. [Statutory Authority: Chapter 86.16 RCW. 88-10-058 (Order 88-6), § 173-158-100, filed 5/4/88.] Repealed by 90-21-089, filed 10/19/90, effective 11/19/90. Statutory Authority: RCW 86.16.061.

173-158-110 State assumption of regulatory authority. [Statutory Authority: Chapter 86.16 RCW. 88-10-058 (Order 88-6), § 173-158-110, filed 5/4/88.] Repealed by 90-21-089, filed 10/19/90, effective 11/19/90. Statutory Authority: RCW 86.16.061.

WAC 173-158-010 Authority. This chapter is adopted pursuant to chapter 86.16 RCW as amended during the 1989 legislative session.

Note: Copies of all statutes, regulations, and other documents cited or referred to in this chapter may be viewed at the Department of Ecology, Mailstop PV-11, Olympia, Washington 98504.

[Statutory Authority: RCW 86.16.061. 90-21-089, § 173-158-010, filed 10/19/90, effective 11/19/90. Statutory Authority: Chapter 86.16 RCW. 88-10-058 (Order 88-6), § 173-158-010, filed 5/4/88.]

WAC 173-158-020 Purpose. Chapter 86.16 RCW establishes statewide authority for flood plain management through the adoption and administration by local governments of regulatory programs which are compliant with the minimum standards of the National Flood Insurance Program (NFIP). Chapter 86.16 RCW also directs the department of ecology to establish minimum state requirements for flood plain management which equal the NFIP minimum standards; to provide technical assistance and information to local governments related to administration of their flood plain management ordinances and the NFIP; to provide assistance to local governments in identifying the location of the one hundred year (base) flood plain; and allows for the issuance of regulatory orders.

[Statutory Authority: RCW 86.16.061. 90-21-089, § 173-158-020, filed 10/19/90, effective 11/19/90. Statutory Authority: Chapter 86.16 RCW. 88-10-058 (Order 88-6), § 173-158-020, filed 5/4/88.]

WAC 173-158-030 Definitions. For the purposes of this chapter the following definitions shall apply:

(1) "Base flood" means the flood having a one percent chance of being equalled or exceeded in any given year. Also referred to as the "one hundred year flood."

(2) "Best available information" means in the absence of official flood insurance rate map data, communities can use data from other federal, state, or other sources provided this data has either been generated using technically defensible methods or is based on reasonable historical analysis and experience.

(3) "Designated floodway" means the regulatory floodway which has been delineated on the flood insurance rate map (FIRM) or the flood boundary/floodway map (FBFM) of a community's flood insurance study and is included in the community's flood damage prevention ordinance.

(4) "Flood or flooding" means a general and temporary condition of partial or complete inundation of normally dry land areas from:

(a) The overflow of inland or tidal waters; and/or

(b) The unusual and rapid accumulation of runoff of surface waters from any source.

(5) "Flood insurance rate map (FIRM)" means the official map on which the federal insurance administration has delineated both the areas of special flood hazard and the risk premium zones applicable to the community.

(6) "Floodway" means the channel of a river or other watercourse and the adjacent land areas that must be reserved in order to discharge the base flood without cumulatively increasing the water surface elevation more than one foot.

(7) "New construction" means structures for which the "start of construction" commenced on or after the effective date of the local ordinance.

(8) "Person" means an individual, partnership, corporation, association, organization, cooperative, public or municipal corporation, or any agency of the state or local governmental unit however designated.

(9) "Special flood hazard area" means an area subject to a base or one hundred year flood; areas of special flood hazard are shown on a flood hazard boundary map or flood insurance rate map as Zone A, AO, A1-30, AE, A99, AH, VO, V1-30, VE, or V.

(10) "Structure" means a walled and roofed building, including a gas or liquid storage tank that is principally above ground. Manufactured homes are considered structures.

(11) "Start of construction" includes substantial improvement, and means the date the building permit was issued, provided the actual start of construction, repair, reconstruction, placement, or other improvement was within one hundred eighty days of the permit date. The actual start means either the first placement of permanent construction of a structure on a site, such as the pouring of slab or footings, the installation of piles, the construction of columns, or any work beyond the stage of excavation; or the placement of a manufactured home on a foundation. Permanent construction does not include land preparation, such as clearing, grading, or filling; nor does it include the installation of streets and/or walkways; nor does it include excavation for a basement, footings, piers, or foundation or the erection of temporary forms; nor does it include the installation on the property of accessory buildings, such as garages or sheds not occupied as dwelling units or not part of the main structure.

(12) "Substantial improvement" means any repair, reconstruction, or improvement of a structure, the cost of which equals or exceeds fifty percent of the market value of the structure either:

(a) Before the improvement or repair is started; or

(b) If the structure has been damaged and is being restored, before the damage occurred. For the purposes of this definition "substantial improvement" is considered to occur when the first alteration of any wall, ceiling, floor, or other structural part of the building commences, whether or not that alteration affects the external dimensions of the structure.

The term does not, however, include either:

(i) Any project for improvement of a structure to comply with existing state or local health, sanitary, or safety code specifications which are solely necessary to assure safe living conditions; or

(ii) Any alteration of a structure listed on the National Register of Historic Places or a state inventory of historic places.

(13) "Variance" means a grant of relief from the requirements of this chapter which permits construction in a manner that would otherwise be prohibited by this chapter.

(14) "Wetlands" means lands transitional between terrestrial and aquatic systems where the water table is usually at or near the surface or the land is covered by shallow water. Wetlands have one or more of the following three attributes: (a) At least periodically, the land supports predominantly hydrophytes; (b) the substrate is predominantly undrained hydric soil; and (c) the substrate is nonsoils and is saturated with water or covered by shallow water at some time during the growing season of each year.

[Statutory Authority: RCW 86.16.061. 90-21-089, § 173-158-030, filed 10/19/90, effective 11/19/90; 89-07-022 and 90-06-059 (Order 88-57 and 88-57A), § 173-158-030, filed 3/7/89 and 3/6/90, effective 4/6/90. Statutory Authority: Chapter 86.16 RCW. 88-10-058 (Order 88-6), § 173-158-030, filed 5/4/88.]

WAC 173-158-040 Regulatory area. The minimum regulatory area for state and local flood plain management regulations shall be those areas subject to a base (one hundred year) flood and designated as special flood hazard areas on the most recent maps provided by the Federal Emergency Management Agency (FEMA) for the National Flood Insurance Program (NFIP). Best available information shall be used if these maps are not available or sufficient as determined by the Federal Emergency Management Agency.

[Statutory Authority: RCW 86.16.061. 90-21-089, § 173-158-040, filed 10/19/90, effective 11/19/90. Statutory Authority: Chapter 86.16 RCW. 88-10-058 (Order 88-6), § 173-158-040, filed 5/4/88.]

WAC 173-158-045 Technical assistance. The department of ecology shall provide technical assistance to local governments in the administration of their flood plain management ordinances. The department shall also assist counties, cities, and towns in identifying the location of the one hundred year flood plain, and petitioning the federal government to alter its designations of where the one hundred year flood plain is located if the federally recognized location of the one hundred year flood plain is found to be inaccurate.

[Statutory Authority: RCW 86.16.061. 90-21-089, § 173-158-045, filed 10/19/90, effective 11/19/90.]

WAC 173-158-050 Criteria for land management and use. The standards and definitions contained in 44 CFR, Parts 59 and 60 for the National Flood Insurance Program are adopted as the minimum state standards by reference.

[Statutory Authority: Chapter 86.16 RCW. 88-10-058 (Order 88-6), § 173-158-050, filed 5/4/88.]

WAC 173-158-064 Additional state requirements. State requirements may be established for specific flood plains that exceed the minimum federal requirements of the NFIP, in accordance with RCW 86.16.031(8) and the following:

(1) A written request must be submitted to the department of ecology by the affected county, city, or town to initiate the process.

(2) The location of the one hundred year flood plain must be reexamined by the affected community and the department of ecology, and has been certified by the department as being accurate for the affected areas.

(3) The department of ecology shall negotiate with the affected community to determine the content of proposed additional requirements.

(4) The department of ecology shall notify the public of related public meetings and public hearings.

(5) The department of ecology must find that the proposed increased requirements are necessary due to local circumstances and general public safety.

(6) The area where the additional requirements apply is to be clearly identified.

(7) Additional state requirements shall be established as needed in accordance with the required state rule-making procedures.

[Statutory Authority: RCW 86.16.061. 90-21-089, § 173-158-064, filed 10/19/90, effective 11/19/90.]

WAC 173-158-070 Additional floodway requirements. The following additional state requirements are established in accordance with RCW 86.16.041.

(1) Special flood hazard areas with designated floodways. In addition to those NFIP requirements for designated floodways, communities with designated floodways shall restrict land uses within such areas to include the prohibition of construction or reconstruction of residential structures except for: (a) Repairs, reconstruction, or improvements to a structure which do not increase the ground floor area; and (b) repairs, reconstruction, or improvements to a structure the cost of which does not exceed fifty percent of the market value of the structure either (i) before the repair, reconstruction, or improvement is started, or (ii) if the structure has been damaged, and is being restored, before the damage occurred. Work done on structures to comply with existing health, sanitary, or safety codes or to structures identified as historic places shall not be included in the fifty percent determination in (b) of this subsection.

(2) Special flood hazard areas without designated floodways. When a regulatory floodway for a stream has not been designated, the community may require that applicants for new construction and substantial improvements reasonably utilize the best available information from a federal, state, or other source to consider the cumulative effect of existing, proposed, and anticipated future development and determine that the increase in the water surface elevation of the base flood will not be more than one foot at any point in the community. Building and development near streams without a designated floodway shall comply with the requirements of 44 CFR 60.3 (b)(3) and (4), and (c)(10) of the NFIP regulations.

[Statutory Authority: RCW 86.16.061. 90-21-089, § 173-158-070, filed 10/19/90, effective 11/19/90. Statutory Authority: Chapter 86.16 RCW. 88-10-058 (Order 88-6), § 173-158-070, filed 5/4/88.]

WAC 173-158-080 Wetlands management. Wetlands are areas of great natural productivity and hydrological utility, providing natural flood control, flood desynchronization, and flow stabilization of rivers and streams. The unrestricted use and development of wetlands will destroy many of these beneficial qualities which directly affect human health and safety during flood events. The piecemeal alteration and destruction of wetlands through draining, dredging, filling and other means has an adverse cumulative impact on their ability to reduce flood damages.

Communities should, to the maximum extent possible, seek to avoid the short and long term adverse impacts associated with the destruction or modification of wetlands, especially those activities which limit or disrupt the ability of the wetland to ameliorate flooding impacts. Proposals for development within special flood hazard areas (base floodplains) should be reviewed for their possible impacts on wetlands located within the floodplain. Communities should ensure that development activities in or around wetlands do not negatively affect public safety, health, and welfare by disrupting the wetlands' ability to reduce flood and storm hazards.

Communities may request technical assistance from the department of ecology in identifying wetland areas. Existing wetland map information from the National Wetlands Inventory (NWI) can be used in conjunction with the community's FIRM to prepare an overlay zone indicating critical wetland areas deserving special attention. Local wetlands management strategies can also be developed which will preserve these valuable areas.

[Statutory Authority: Chapter 86.16 RCW. 88-10-058 (Order 88-6), § 173-158-080, filed 5/4/88.]

WAC 173-158-084 Submittal of local ordinances. Communities shall submit to the department of ecology and to the federal Emergency Management Agency (FEMA) regional office newly adopted or amended flood damage prevention ordinances to incorporate the requirements of chapter 86.16 RCW and this chapter. Such ordinances or amendments shall take effect thirty days from filing with the department unless the department disapproves such ordinance or amendment, in writing, within that time period. The department may disapprove any ordinance or amendment which does not comply with the requirements of the NFIP, or WAC 173-158-040, 173-158-064, or 173-158-070. The department will provide guidance and assistance to communities in preparation and review of draft ordinances upon request by the community.

[Statutory Authority: RCW 86.16.061. 90-21-089, § 173-158-084, filed 10/19/90, effective 11/19/90.]

WAC 173-158-086 Local option to exceed minimum requirements. In accordance with RCW 86.16.045 a county, city, or town may adopt flood plain management ordinances or requirements that exceed the minimum federal requirements of the National Flood Insurance Program and the state requirements of this chapter without following the procedures provided in RCW 86.16.031(8) and WAC 173-158-064.

[Statutory Authority: RCW 86.16.061. 90-21-089, § 173-158-086, filed 10/19/90, effective 11/19/90.]

WAC 173-158-090 Penalties and enforcement. (1) The attorney general or the attorney for the local government shall bring such injunctive, declaratory, or other actions as are necessary to ensure compliance with this chapter.

(2) Any person who fails to comply with this chapter shall also be subject to a civil penalty not to exceed one thousand dollars for each violation. Each violation or each day of noncompliance shall constitute a separate violation.

(3) The penalty provided for in this section shall be imposed by a notice in writing, either by certified mail with return receipt requested or by personal service, to the person incurring the same from the department or local government, describing the violation with reasonable particularity and ordering the act or acts constituting the violation or violations to cease and desist or, in appropriate cases, requiring necessary corrective action to be taken within a specific and reasonable time.

(4) Any penalty imposed pursuant to this section by the department shall be subject to review by the pollution control hearings board. Any penalty imposed pursuant to this section by local government shall be subject to review by the local government legislative authority. Any penalty jointly imposed by the department and local government shall be appealed to the pollution control hearings board.

[Statutory Authority: Chapter 86.16 RCW. 88-10-058 (Order 88-6), § 173-158-090, filed 5/4/88.]

WAC 173-158-120 Variances. The variance procedure contained in 44 CFR, Part 60.6 and the local flood damage prevention ordinance shall apply to this chapter unless an activity or use is expressly prohibited therein.

[Statutory Authority: RCW 86.16.061. 90-21-089, § 173-158-120, filed 10/19/90, effective 11/19/90. Statutory Authority: Chapter 86.16 RCW. 88-10-058 (Order 88-6), § 173-158-120, filed 5/4/88.]

Chapter 173-160 WAC

MINIMUM STANDARDS FOR CONSTRUCTION AND MAINTENANCE OF WELLS

WAC

REQUIREMENTS THAT APPLY TO ALL WELLS

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173-160-040 How does this regulation relate to other authorities?
173-160-050 What are the department's enforcement options?
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173-160-410 What are the specific definitions for words in this chapter?
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DISPOSITION OF SECTIONS FORMERLY CODIFIED IN THIS CHAPTER

173-160-020 General. [Statutory Authority: Chapter 18.104 RCW. 88-08-070 (Order 88-58), § 173-160-020, filed 4/6/88; Order 73-6, § 173-160-020, filed 4/30/73.] Repealed by 98-13-112 (Order 98-05), filed 6/17/98, effective 7/18/98. Statutory Authority: Chapter 18.104 RCW.

173-160-055 Well construction notification (start card). [Statutory Authority: Chapter 18.104 RCW. 88-08-070 (Order 88-58), § 173-160-055, filed 4/6/88.] Repealed by 98-08-032 (Order 97-08), filed 3/23/98, effective 4/23/98. Statutory Authority: Chapter 18.104 RCW and RCW 43.21A.080.

173-160-060 Location of well site and access requirements. [Order 73-6, § 173-160-060, filed 4/30/73.] Repealed by 88-08-

070 (Order 88-58), filed 4/6/88. Statutory Authority: Chapter 18.104 RCW.

173-160-065 Design and construction. [Statutory Authority: Chapter 18.104 RCW. 88-08-070 (Order 88-58), § 173-160-065, filed 4/6/88.] Repealed by 98-08-032 (Order 97-08), filed 3/23/98, effective 4/23/98. Statutory Authority: Chapter 18.104 RCW and RCW 43.21A.080.

173-160-070 Design and construction. [Order 73-6, § 173-160-070, filed 4/30/73.] Repealed by 88-08-070 (Order 88-58), filed 4/6/88. Statutory Authority: Chapter 18.104 RCW.

173-160-075 Design and construction—Sealing of casing—General. [Statutory Authority: Chapter 18.104 RCW. 88-08-070 (Order 88-58), § 173-160-075, filed 4/6/88.] Repealed by 98-08-032 (Order 97-08), filed 3/23/98, effective 4/23/98. Statutory Authority: Chapter 18.104 RCW and RCW 43.21A.080.

173-160-080 Design and construction—Casing. [Order 73-6, § 173-160-080, filed 4/30/73.] Repealed by 88-08-070 (Order 88-58), filed 4/6/88. Statutory Authority: Chapter 18.104 RCW.

173-160-085 Capping. [Statutory Authority: Chapter 18.104 RCW. 88-08-070 (Order 88-58), § 173-160-085, filed 4/6/88.] Repealed by 98-08-032 (Order 97-08), filed 3/23/98, effective 4/23/98. Statutory Authority: Chapter 18.104 RCW and RCW 43.21A.080.

173-160-090 Design and construction—Well completion—General. [Statutory Authority: RCW 18.104.040(4). 79-02-010 (Order DE 78-22), § 173-160-090, filed 1/10/79; Order 73-6, § 173-160-090, filed 4/30/73.] Repealed by 88-08-070 (Order 88-58), filed 4/6/88. Statutory Authority: Chapter 18.104 RCW.

173-160-09001 Recommended well diameters. [Statutory Authority: RCW 18.104.040(4). 79-02-010 (Order DE 78-22), § 173-160-09001, filed 1/10/79.] Repealed by 88-08-070 (Order 88-58), filed 4/6/88. Statutory Authority: Chapter 18.104 RCW.

173-160-095 Relationship to other authorities. [Statutory Authority: Chapter 18.104 RCW. 88-08-070 (Order 88-58), § 173-160-095, filed 4/6/88.] Repealed by 98-08-032 (Order 97-08), filed 3/23/98, effective 4/23/98. Statutory Authority: Chapter 18.104 RCW and RCW 43.21A.080.

173-160-100 Design and construction—Sealing materials. [Statutory Authority: RCW 18.104.040(4). 79-02-010 (Order DE 78-22), § 173-160-100, filed 1/10/79; Order 73-6, § 173-160-100, filed 4/30/73.] Repealed by 88-08-070 (Order 88-58), filed 4/6/88. Statutory Authority: Chapter 18.104 RCW.

173-160-105 Comparable construction standards. [Statutory Authority: Chapter 18.104 RCW. 88-08-070 (Order 88-58), § 173-160-105, filed 4/6/88.] Repealed by 98-08-032 (Order 97-08), filed 3/23/98, effective 4/23/98. Statutory Authority: Chapter 18.104 RCW and RCW 43.21A.080.

173-160-110 Design and construction—Sealing of casing—General. [Order 73-6, § 173-160-110, filed 4/30/73.] Repealed by 88-08-070 (Order 88-58), filed 4/6/88. Statutory Authority: Chapter 18.104 RCW.

173-160-115 Enforcement. [Statutory Authority: Chapter 18.104 RCW. 88-08-070 (Order 88-58), § 173-160-115, filed 4/6/88.] Repealed by 98-08-032 (Order 97-08), filed 3/23/98, effective 4/23/98. Statutory Authority: Chapter 18.104 RCW and RCW 43.21A.080.

173-160-120 Design and construction—Sealing of consolidated formations. [Order 73-6, § 173-160-120, filed 4/30/73.] Repealed by 88-08-070 (Order 88-58), filed 4/6/88. Statutory Authority: Chapter 18.104 RCW.

173-160-125 Appeals. [Statutory Authority: Chapter 18.104 RCW. 88-08-070 (Order 88-58), § 173-160-125, filed 4/6/88.] Repealed by 98-08-032 (Order 97-08), filed 3/23/98, effective 4/23/98. Statutory Authority: Chapter 18.104 RCW and RCW 43.21A.080.

173-160-130 Sealing of unconsolidated formations without significant clay beds. [Order 73-6, § 173-160-130, filed 4/30/73.] Repealed by 88-08-070 (Order 88-58), filed 4/6/88. Statutory Authority: Chapter 18.104 RCW.

173-160-135 Regulation review. [Statutory Authority: Chapter 18.104 RCW. 88-08-070 (Order 88-58), § 173-160-135, filed 4/6/88.] Repealed by 98-08-032 (Order 97-08), filed 3/23/98, effective 4/23/98. Statutory Authority: Chapter 18.104 RCW and RCW 43.21A.080.

173-160-140 Sealing of unconsolidated formations with clay beds. [Order 73-6, § 173-160-140, filed 4/30/73.] Repealed by 88-08-070 (Order 88-58), filed 4/6/88. Statutory Authority: Chapter 18.104 RCW.

173-160-150 Special sealing standards for artesian wells. [Order 73-6, § 173-160-150, filed 4/30/73.] Repealed by 88-08-070 (Order 88-58), filed 4/6/88. Statutory Authority: Chapter 18.104 RCW.

173-160-160 Artificial gravel-packed wells—General. [Order 73-6, § 173-160-160, filed 4/30/73.] Repealed by 88-08-070 (Order 88-58), filed 4/6/88. Statutory Authority: Chapter 18.104 RCW.

173-160-170 Sealing of artificial gravel-packed wells. [Order 73-6, § 173-160-170, filed 4/30/73.] Repealed by 88-08-070 (Order 88-58), filed 4/6/88. Statutory Authority: Chapter 18.104 RCW.

173-160-180 Sealing of dug wells. [Order 73-6, § 173-160-180, filed 4/30/73.] Repealed by 88-08-070 (Order 88-58), filed 4/6/88. Statutory Authority: Chapter 18.104 RCW.

173-160-190 Special standards for driven or jetted wells. [Order 73-6, § 173-160-190, filed 4/30/73.] Repealed by 88-08-070 (Order 88-58), filed 4/6/88. Statutory Authority: Chapter 18.104 RCW.

173-160-200 Upper terminal of well. [Statutory Authority: RCW 18.104.040(4). 79-02-010 (Order DE 78-22), § 173-160-200, filed 1/10/79; Order 73-6, § 173-160-200, filed 4/30/73.] Repealed by 88-08-070 (Order 88-58), filed 4/6/88. Statutory Authority: Chapter 18.104 RCW.

173-160-205 Location of well site and access requirements. [Statutory Authority: Chapter 18.104 RCW. 88-08-070 (Order 88-58), § 173-160-205, filed 4/6/88.] Repealed by 98-08-032 (Order 97-08), filed 3/23/98, effective 4/23/98. Statutory Authority: Chapter 18.104 RCW and RCW 43.21A.080.

173-160-210 Capping. [Order 73-6, § 173-160-210, filed 4/30/73.] Repealed by 88-08-070 (Order 88-58), filed 4/6/88. Statutory Authority: Chapter 18.104 RCW.

173-160-215 Design and construction—Well completion—General. [Statutory Authority: Chapter 18.104 RCW. 89-15-017 and 90-07-016 (Orders 89-4 and 89-4A), § 173-160-215, filed 7/12/89 and 3/13/90, effective 8/12/89 and 4/13/90; 88-08-070 (Order 88-58), § 173-160-215, filed 4/6/88.] Repealed by 98-08-032 (Order 97-08), filed 3/23/98, effective 4/23/98. Statutory Authority: Chapter 18.104 RCW and RCW 43.21A.080.

173-160-220 Testing of well. [Order 73-6, § 173-160-220, filed 4/30/73.] Repealed by 88-08-070 (Order 88-58), filed 4/6/88. Statutory Authority: Chapter 18.104 RCW.

173-160-225 Design and construction—Casing. [Statutory Authority: Chapter 18.104 RCW. 88-08-070 (Order 88-58), § 173-160-225, filed 4/6/88.] Repealed by 98-08-032 (Order 97-08), filed 3/23/98, effective 4/23/98. Statutory Authority: Chapter 18.104 RCW and RCW 43.21A.080.

173-160-230 Testing of well—Access port or pressure gage. [Order 73-6, § 173-160-230, filed 4/30/73.] Repealed by 88-08-070 (Order 88-58), filed 4/6/88. Statutory Authority: Chapter 18.104 RCW.

173-160-235 Recommended well diameters. [Statutory Authority: Chapter 18.104 RCW. 88-08-070 (Order 88-58), § 173-160-235, filed 4/6/88.] Repealed by 98-08-032 (Order 97-08), filed 3/23/98, effective 4/23/98. Statutory Authority: Chapter 18.104 RCW and RCW 43.21A.080.

173-160-240 Disinfection. [Order 73-6, § 173-160-240, filed 4/30/73.] Repealed by 88-08-070 (Order 88-58), filed 4/6/88. Statutory Authority: Chapter 18.104 RCW.

173-160-245 Design and construction—Sealing materials. [Statutory Authority: Chapter 18.104 RCW. 88-08-070 (Order 88-58), § 173-160-245, filed 4/6/88.] Repealed by 98-08-032 (Order 97-08), filed 3/23/98, effective 4/23/98. Statutory Authority: Chapter 18.104 RCW and RCW 43.21A.080.

173-160-250 Quality of drilling water. [Order 73-6, § 173-160-250, filed 4/30/73.] Repealed by 88-08-070 (Order 88-58), filed 4/6/88. Statutory Authority: Chapter 18.104 RCW.

173-160-255 Design and construction—Sealing of consolidated formations. [Statutory Authority: Chapter 18.104 RCW. 88-08-070 (Order 88-58), § 173-160-255, filed 4/6/88.] Repealed by 98-08-032 (Order 97-08), filed 3/23/98, effective 4/23/98. Statutory Authority: Chapter 18.104 RCW and RCW 43.21A.080.

173-160-260 Pump installation. [Order 73-6, § 173-160-260, filed 4/30/73.] Repealed by 88-08-070 (Order 88-58), filed 4/6/88. Statutory Authority: Chapter 18.104 RCW.

173-160-265 Sealing of unconsolidated formations without significant clay beds. [Statutory Authority: Chapter 18.104 RCW. 88-08-070 (Order 88-58), § 173-160-265, filed 4/6/88.] Repealed by 98-08-032 (Order 97-08), filed 3/23/98, effective 4/23/98. Statutory Authority: Chapter 18.104 RCW and RCW 43.21A.080.

173-160-270 Explosives. [Order 73-6, § 173-160-270, filed 4/30/73.] Repealed by 88-08-070 (Order 88-58), filed 4/6/88. Statutory Authority: Chapter 18.104 RCW.

173-160-275 Sealing of unconsolidated formations with clay beds. [Statutory Authority: Chapter 18.104 RCW. 88-08-070 (Order 88-58), § 173-160-275, filed 4/6/88.] Repealed by 98-08-032 (Order 97-08), filed 3/23/98, effective 4/23/98. Statutory Authority: Chapter 18.104 RCW and RCW 43.21A.080.

173-160-280 Chemical conditioning. [Order 73-6, § 173-160-280, filed 4/30/73.] Repealed by 88-08-070 (Order 88-58), filed 4/6/88. Statutory Authority: Chapter 18.104 RCW.

173-160-285 Special sealing standards for artesian wells. [Statutory Authority: Chapter 18.104 RCW. 88-08-070 (Order 88-58), § 173-160-285, filed 4/6/88.] Repealed by 98-08-032 (Order 97-08), filed 3/23/98, effective 4/23/98. Statutory Authority: Chapter 18.104 RCW and RCW 43.21A.080.

173-160-290 Abandonment or destruction of wells. [Statutory Authority: RCW 18.104.040(4). 79-02-010 (Order DE 78-22), § 173-160-290, filed 1/10/79; Order 73-6, § 173-160-290, filed 4/30/73.] Repealed by 88-08-070 (Order 88-58), filed 4/6/88. Statutory Authority: Chapter 18.104 RCW.

173-160-295 Artificial gravel-packed wells—General. [Statutory Authority: Chapter 18.104 RCW. 88-08-070 (Order 88-58), § 173-160-295, filed 4/6/88.] Repealed by 98-08-032 (Order 97-08), filed 3/23/98, effective 4/23/98. Statutory Authority: Chapter 18.104 RCW and RCW 43.21A.080.

173-160-300 Abandonment or destruction of wells—Abandonment or destruction of drilled or jetted wells. [Order 73-6, § 173-160-300, filed 4/30/73.] Repealed by 88-08-070 (Order 88-58), filed 4/6/88. Statutory Authority: Chapter 18.104 RCW.

173-160-305 Sealing of artificial gravel-packed wells. [Statutory Authority: Chapter 18.104 RCW. 88-08-070 (Order 88-58), § 173-160-305, filed 4/6/88.] Repealed by 98-08-032 (Order 97-08), filed 3/23/98, effective 4/23/98. Statutory Authority: Chapter 18.104 RCW and RCW 43.21A.080.

173-160-310 Abandonment or destruction of wells—Abandonment or destruction of gravel-packed wells. [Order 73-6, § 173-160-310, filed 4/30/73.] Repealed by 88-08-070 (Order 88-58), filed 4/6/88. Statutory Authority: Chapter 18.104 RCW.

173-160-315 Sealing of dug wells. [Statutory Authority: Chapter 18.104 RCW. 88-08-070 (Order 88-58), § 173-160-315, filed 4/6/88.] Repealed by 98-08-032 (Order 97-08), filed 3/23/98, effective 4/23/98. Statutory Authority: Chapter 18.104 RCW and RCW 43.21A.080.

173-160-320 Abandonment or destruction of wells—Abandonment or destruction of artesian wells. [Order 73-6, § 173-160-320, filed 4/30/73.] Repealed by 88-08-070 (Order 88-58), filed 4/6/88. Statutory Authority: Chapter 18.104 RCW.

173-160-325 Special standards for driven or jetted wells. [Statutory Authority: Chapter 18.104 RCW. 88-08-070 (Order 88-58), § 173-160-325, filed 4/6/88.] Repealed by 98-08-032 (Order 97-08), filed 3/23/98, effective 4/23/98. Statutory Authority: Chapter 18.104 RCW and RCW 43.21A.080.

173-160-330 Abandonment or destruction of wells—Abandonment or destruction of dug wells. [Order 73-6, § 173-160-330, filed 4/30/73.] Repealed by 88-08-070 (Order 88-58), filed 4/6/88. Statutory Authority: Chapter 18.104 RCW.

173-160-335 Upper terminal of well. [Statutory Authority: Chapter 18.104 RCW. 88-08-070 (Order 88-58), § 173-160-335, filed 4/6/88.] Repealed by 98-08-032 (Order 97-08), filed 3/23/98, effective 4/23/98. Statutory Authority: Chapter 18.104 RCW and RCW 43.21A.080.

173-160-340 Abandonment or destruction of wells—Plugging of test wells. [Order 73-6, § 173-160-340, filed 4/30/73.] Repealed by 88-08-070 (Order 88-58), filed 4/6/88. Statutory Authority: Chapter 18.104 RCW.

173-160-345 Testing of well. [Statutory Authority: Chapter 18.104 RCW. 88-08-070 (Order 88-58), § 173-160-345, filed 4/6/88.] Repealed by 98-08-032 (Order 97-08), filed 3/23/98, effective 4/23/98. Statutory Authority: Chapter 18.104 RCW and RCW 43.21A.080.

173-160-350 Artificial recharge of ground water bodies. [Order 73-6, § 173-160-350, filed 4/30/73.] Repealed by 88-08-070 (Order 88-58), filed 4/6/88. Statutory Authority: Chapter 18.104 RCW.

173-160-355 Testing of well—Access port or pressure gage. [Statutory Authority: Chapter 18.104 RCW. 88-08-070 (Order 88-58), § 173-160-355, filed 4/6/88.] Repealed by 98-08-032 (Order 97-08), filed 3/23/98, effective 4/23/98. Statutory Authority: Chapter 18.104 RCW and RCW 43.21A.080.

173-160-360 Special exemptions. [Order 73-6, § 173-160-360, filed 4/30/73.] Repealed by 88-08-070 (Order 88-58), filed 4/6/88. Statutory Authority: Chapter 18.104 RCW.

173-160-365 Disinfection. [Statutory Authority: Chapter 18.104 RCW. 88-08-070 (Order 88-58), § 173-160-365, filed 4/6/88.] Repealed by 98-08-032 (Order 97-08), filed 3/23/98, effective 4/23/98. Statutory Authority: Chapter 18.104 RCW and RCW 43.21A.080.

173-160-370 Relationship to other authorities. [Order 73-6, § 173-160-370, filed 4/30/73.] Repealed by 88-08-070 (Order 88-58), filed 4/6/88. Statutory Authority: Chapter 18.104 RCW.

173-160-375 Quality of drilling water. [Statutory Authority: Chapter 18.104 RCW. 88-08-070 (Order 88-58), § 173-160-375, filed 4/6/88.] Repealed by 98-08-032 (Order 97-08), filed 3/23/98, effective 4/23/98. Statutory Authority: Chapter 18.104 RCW and RCW 43.21A.080.

173-160-380 Comparable construction standards. [Order 73-6, § 173-160-380, filed 4/30/73.] Repealed by 88-08-070 (Order 88-58), filed 4/6/88. Statutory Authority: Chapter 18.104 RCW.

173-160-385 Pump installation. [Statutory Authority: Chapter 18.104 RCW. 88-08-070 (Order 88-58), § 173-160-385, filed 4/6/88.] Repealed by 98-08-032 (Order 97-08), filed 3/23/98, effective 4/23/98. Statutory Authority: Chapter 18.104 RCW and RCW 43.21A.080.

173-160-395 Explosives. [Statutory Authority: Chapter 18.104 RCW. 88-08-070 (Order 88-58), § 173-160-395, filed 4/6/88.] Repealed by 98-08-032 (Order 97-08), filed 3/23/98, effective 4/23/98. Statutory Authority: Chapter 18.104 RCW and RCW 43.21A.080.

173-160-405 Chemical conditioning. [Statutory Authority: Chapter 18.104 RCW. 88-08-070 (Order 88-58), § 173-160-405, filed 4/6/88.] Repealed by 98-08-032 (Order 97-08), filed 3/23/98, effective 4/23/98. Statutory Authority: Chapter 18.104 RCW and RCW 43.21A.080.

173-160-415 Abandonment of wells. [Statutory Authority: Chapter 18.104 RCW. 88-08-070 (Order 88-58), § 173-160-415, filed 4/6/88.] Repealed by 98-08-032 (Order 97-08), filed 3/23/98, effective 4/23/98. Statutory Authority: Chapter 18.104 RCW and RCW 43.21A.080.

173-160-425 Abandonment of wells—Abandonment of drilled or jetted wells. [Statutory Authority: Chapter 18.104 RCW. 88-08-070 (Order 88-58), § 173-160-425, filed 4/6/88.] Repealed by 98-08-032 (Order 97-08), filed 3/23/98, effective 4/23/98. Statutory Authority: Chapter 18.104 RCW and RCW 43.21A.080.

173-160-435 Abandonment of wells—Abandonment of gravel-packed wells. [Statutory Authority: Chapter 18.104 RCW. 88-08-070 (Order 88-58), § 173-160-435, filed 4/6/88.] Repealed by 98-08-032 (Order 97-08), filed 3/23/98, effective 4/23/98. Statutory Authority: Chapter 18.104 RCW and RCW 43.21A.080.

173-160-445 Abandonment of wells—Abandonment of artesian wells. [Statutory Authority: Chapter 18.104 RCW. 88-08-070 (Order 88-58), § 173-160-445, filed 4/6/88.] Repealed by 98-08-032 (Order 97-08), filed 3/23/98, effective 4/23/98. Statutory Authority: Chapter 18.104 RCW and RCW 43.21A.080.

173-160-455 Abandonment of wells—Abandonment of dug wells. [Statutory Authority: Chapter 18.104 RCW. 88-08-070 (Order 88-58), § 173-160-455, filed 4/6/88.] Repealed by 98-08-032 (Order 97-08), filed 3/23/98, effective 4/23/98. Statutory Authority: Chapter 18.104 RCW and RCW 43.21A.080.

173-160-465 Abandonment of wells—Plugging of test wells. [Statutory Authority: Chapter 18.104 RCW. 88-08-070 (Order 88-58), § 173-160-465, filed 4/6/88.] Repealed by 98-08-032 (Order 97-08), filed 3/23/98, effective

4/23/98. Statutory Authority: Chapter 18.104 RCW and RCW 43.21A.080.

173-160-475 Artificial recharge of ground-water bodies. [Statutory Authority: Chapter 18.104 RCW. 88-08-070 (Order 88-58), § 173-160-475, filed 4/6/88.] Repealed by 98-08-032 (Order 97-08), filed 3/23/98, effective 4/23/98. Statutory Authority: Chapter 18.104 RCW and RCW 43.21A.080.

173-160-500 Design and construction—General. [Statutory Authority: Chapter 18.104 RCW. 88-08-070 (Order 88-58), § 173-160-500, filed 4/6/88.] Repealed by 98-08-032 (Order 97-08), filed 3/23/98, effective 4/23/98. Statutory Authority: Chapter 18.104 RCW and RCW 43.21A.080.

173-160-510 Design and construction—Surface protective measures. [Statutory Authority: Chapter 18.104 RCW. 88-08-070 (Order 88-58), § 173-160-510, filed 4/6/88.] Repealed by 98-08-032 (Order 97-08), filed 3/23/98, effective 4/23/98. Statutory Authority: Chapter 18.104 RCW and RCW 43.21A.080.

173-160-520 Design and construction—Casing. [Statutory Authority: Chapter 18.104 RCW. 88-08-070 (Order 88-58), § 173-160-520, filed 4/6/88.] Repealed by 98-08-032 (Order 97-08), filed 3/23/98, effective 4/23/98. Statutory Authority: Chapter 18.104 RCW and RCW 43.21A.080.

173-160-530 Design and construction—Cleaning. [Statutory Authority: Chapter 18.104 RCW. 88-08-070 (Order 88-58), § 173-160-530, filed 4/6/88.] Repealed by 98-08-032 (Order 97-08), filed 3/23/98, effective 4/23/98. Statutory Authority: Chapter 18.104 RCW and RCW 43.21A.080.

173-160-540 Design and construction—Well screen, filter pack, and development. [Statutory Authority: Chapter 18.104 RCW. 88-08-070 (Order 88-58), § 173-160-540, filed 4/6/88.] Repealed by 98-08-032 (Order 97-08), filed 3/23/98, effective 4/23/98. Statutory Authority: Chapter 18.104 RCW and RCW 43.21A.080.

173-160-550 Design and construction—Well seals. [Statutory Authority: Chapter 18.104 RCW. 88-08-070 (Order 88-58), § 173-160-550, filed 4/6/88.] Repealed by 98-08-032 (Order 97-08), filed 3/23/98, effective 4/23/98. Statutory Authority: Chapter 18.104 RCW and RCW 43.21A.080.

173-160-560 Abandonment of resource protection wells. [Statutory Authority: Chapter 18.104 RCW. 88-08-070 (Order 88-58), § 173-160-560, filed 4/6/88.] Repealed by 98-08-032 (Order 97-08), filed 3/23/98, effective 4/23/98. Statutory Authority: Chapter 18.104 RCW and RCW 43.21A.080.

REQUIREMENTS THAT APPLY TO ALL WELLS

WAC 173-160-010 What is the purpose of this regulation? (1) These regulations are adopted under chapter 18.104 RCW, to establish minimum standards for the construction and decommissioning of all wells in the state of Washington.

(2) The following are excluded from these regulations:

(a) Any excavation that is not intended to locate, divert, artificially recharge, observe, monitor, dewater, or withdraw ground water for agricultural, municipal, industrial, domestic, or commercial use except resource protection wells and geotechnical soil borings.

(b) Any excavation for the purpose of obtaining or prospecting for oil, natural gas, minerals, products of mining, quarrying, inserting media to repressure oil or natural gas bearing formations, storing petroleum, natural gas, or other products, as provided in chapter 78.52 RCW.

(c) Injection wells regulated in chapter 173-218 WAC.

(d) Infiltration or exfiltration galleries, trenches, ponds, pits, and sumps.

(3) Under chapter 90.48 RCW, those excavations excluded in subsection (2)(a) through (d) of this section shall be constructed, maintained, and decommissioned to ensure protection of the ground water resource and to prevent the contamination and waste of that resource.

[Statutory Authority: Chapter 18.104 RCW and RCW 43.21A.080. 98-08-032 (Order 97-08), § 173-160-010, filed 3/23/98, effective 4/23/98. Statutory Authority: Chapter 18.104 RCW. 88-08-070 (Order 88-58), § 173-160-010, filed 4/6/88; Order 73-6, § 173-160-010, filed 4/30/73.]

WAC 173-160-030 When will this regulation be reviewed? (1) The department of ecology shall initiate review of the rules established in this chapter:

(a) When new information, changing conditions, or statutory modifications make it necessary to consider revisions; or

(b) When statutes require the review of this regulation, whichever comes first.

(2) The technical advisory group (TAG) established under chapter 18.104 RCW shall assist the department in the development and revision of rules.

[Statutory Authority: Chapter 18.104 RCW and RCW 43.21A.080. 98-08-032 (Order 97-08), § 173-160-030, filed 3/23/98, effective 4/23/98. Statutory Authority: Chapter 18.104 RCW. 88-08-070 (Order 88-58), § 173-160-030, filed 4/6/88; Order 73-6, § 173-160-030, filed 4/30/73.]

WAC 173-160-040 How does this regulation relate to other authorities? (1) Nothing in these regulations may be construed to waive any legal requirements of other state agencies or local governmental entities relating to well construction, nor may it preclude the adoption of more stringent minimum well construction standards by local government.

(2) Well contractors shall be familiar with all state and local well construction requirements for their job sites prior to initiating construction.

[Statutory Authority: Chapter 18.104 RCW and RCW 43.21A.080. 98-08-032 (Order 97-08), § 173-160-040, filed 3/23/98, effective 4/23/98. Statutory Authority: Chapters 34.05, 90.54, 18.104, 90.03 and 90.44 RCW. 91-23-093 (Order 91-27), § 173-160-040, filed 11/19/91, effective 12/20/91. Statutory Authority: Chapter 18.104 RCW. 88-08-070 (Order 88-58), § 173-160-040, filed 4/6/88; Order 73-6, § 173-160-040, filed 4/30/73.]

WAC 173-160-050 What are the department's enforcement options? The department may impose the sanctions that are appropriate under authorities vested in it, including:

(1) The issuance of regulatory orders under RCW 43.27A.190;

(2) Civil penalties under RCW 90.03.600 and 18.104.155; and

(3) Criminal penalties under RCW 18.104.160.

[Statutory Authority: Chapter 18.104 RCW and RCW 43.21A.080. 98-08-032 (Order 97-08), § 173-160-050, filed 3/23/98, effective 4/23/98. Statutory Authority: Chapter 18.104 RCW. 88-08-070 (Order 88-58), § 173-160-050, filed 4/6/88; Order 73-6, § 173-160-050, filed 4/30/73.]

WAC 173-160-061 May I appeal the department's decision? (1) Yes. All final, written decisions of the department of ecology pertaining to permits, regulatory orders, and related decisions made under this chapter are subject to review by the pollution control hearings board in accordance with chapter 43.21B RCW.

(2) If you wish to appeal a decision of the department of ecology, you must appeal it before that board.

[Statutory Authority: Chapter 18.104 RCW and RCW 43.21A.080. 98-08-032 (Order 97-08), § 173-160-061, filed 3/23/98, effective 4/23/98.]

WAC 173-160-071 May I appeal decisions made by delegated authorities? (1) Yes. Any person who feels aggrieved by a decision made by a local health district or county under delegated authority may appeal the decision to the department of ecology.

(2) The appeal must be made within thirty days of receipt of the decision.

(3) An appeal to the department shall contain at least the following information:

(a) Name, address, and phone number of appealing party;

(b) Copy of the decision under appeal;

(c) A clear statement of what issues are disputed;

(d) A clear statement of what relief the appellant is seeking.

(4) The department will consider the appeal, and either affirm, reverse, or modify the decision of the delegated authority. A written response shall be provided to the applicant and the delegated authority within thirty days of the department's receipt of the appeal.

(5) The department's decision is subject to review by the pollution control hearings board, in accordance with chapter 43.21B RCW.

[Statutory Authority: Chapter 18.104 RCW and RCW 43.21A.080. 98-08-032 (Order 97-08), § 173-160-071, filed 3/23/98, effective 4/23/98.]

PART ONE—GENERAL REQUIREMENTS FOR WATER WELL CONSTRUCTION

WAC 173-160-101 What are the general standards that apply to all water wells? The following minimum standards apply to all water wells constructed and decommissioned in the state of Washington. It is the responsibility and liability of the water well operator who constructs the well, the property owner, and the water well contractor, to take whatever measures are necessary to guard against waste and contamination of the ground water resources.

(1) It is necessary in some cases to construct and decommission wells with additional requirements beyond the minimum standards. Additional requirements may be necessary when the well is constructed or decommissioned in, or adjacent to a known, or potential source of contamination. Examples of sources, or potential sources of contamination are found in the well siting section, WAC 173-160-171.

(2) Nothing in these regulations limits the department's authority to approve comparable alternative specifications for well construction as technology in the industry develops, or new and comparable methods of construction become known to the department.

[Statutory Authority: Chapter 18.104 RCW and RCW 43.21A.080. 98-08-032 (Order 97-08), § 173-160-101, filed 3/23/98, effective 4/23/98.]

WAC 173-160-106 How do I apply for a variance on a water well? (1) When strict compliance with the requirements and standards of this chapter are impractical, any person may request a variance to the department from a regulation or regulations. The application for variance must propose a comparable alternative specification that will provide equal or greater human health and resource protection than the minimum standards. Application for a variance shall be made in writing and approved prior to the construction or decommissioning of the well.

(2) The variance application shall contain at least the following information:

(a) Name, address, and phone number of the person requesting the variance;

(b) Address of well site;

(c) 1/4, 1/4, section, township, range;

(d) The specific regulation(s) that cannot be followed;

(e) The comparable alternative specification;

(f) Justification for the request.

(3) The variance application will be evaluated, and a response will be given within fourteen days. In a public health emergency or other exceptional circumstance, verbal notification for a variance may be given. An emergency usually consists of a well failure resulting in a dry well or an unusable well. Driller convenience does not constitute an emergency.

(4) The emergency variance recipient must immediately follow up with a written notification to the department so that a permanent record is made of the variance.

(5) Local health districts or counties with delegated authority may grant variances under the provision chapter 18.104 delegated authority.

[Statutory Authority: Chapter 18.104 RCW and RCW 43.21A.080. 98-08-032 (Order 97-08), § 173-160-106, filed 3/23/98, effective 4/23/98.]

WAC 173-160-111 What are the definitions of specific words as used in this chapter? (1) "Abandoned well" means a well that is unused, unmaintained, and is in such disrepair as to be unusable.

(2) "Access port" is a 1/2- to 2-inch tapped hole or tube equipped with a screw cap, which provides access to the inner casing, for measurement of the depth to water surface. An access port also means a removable cap.

(3) "Annular space" is the space between the surface or outer casing and the inner casing, or the space between the wall of the drilled hole and the casing.

(4) "Aquifer" is a geologic formation, group of formations, or part of a formation capable of yielding a significant amount of ground water to wells or springs.

(5) "Artesian well" is a well tapping an aquifer bounded above and below by confining or impermeable rock or soil layers, or rock or soil layers of distinctly lower permeability than the aquifer itself. The water will rise in the well above the point of initial penetration (above the bottom of the confining or impermeable layer overlying the aquifer). This term includes both flowing and nonflowing wells.

(6) "Artificial gravel pack" is a mixture of gravel or sand placed in the annular space around the liner, perforated pipe, or well screen. A gravel pack is used to reduce the movement of finer material into the well and provide lateral support to the screen in unstable formations.

(7) "Artificial recharge" is the addition of water to an aquifer by activities of man, such as irrigation or induced infiltration from streams, or injection through wells, trenches, pits, and ponds.

(8) "Bentonite" is a mixture of swelling clay minerals, predominantly sodium montmorillonite.

(9) "Capped well" is a well that is not in use and has a watertight seal or cap installed on top of the casing.

(10) "Casing" is a pipe, generally made of metal or plastic, which is installed in the bore hole to maintain the opening.

(11) "Consolidated formation" means any geologic formation in which the earth materials have become firm and cohesive through natural rock forming processes. Such rocks commonly found in Washington include basalt, granite, sandstone, shale, conglomerate, and limestone. An uncased bore hole will normally remain open in these formations.

(12) "Constructing a well" or "construct a well" means:

(a) Boring, digging, drilling, or excavating a well;

(b) Installing casing, sheeting, lining, or well screens, in a well; or

(c) Drilling a geotechnical soil boring.

"Constructing a well" or "construct a well" includes the alteration of an existing well.

(13)"Contamination" has the meaning provided in RCW 90.48.020.

(14) "Curbing" is a liner or pipe made of concrete, precast tile or steel installed in dug wells to provide an annular space between the well bore and the liner or pipe for sealing.

(15) "Decommissioning" means to fill or plug a well so that it will not produce water, serve as a channel for movement of water or pollution, or allow the entry of pollutants into the well or aquifer(s).

(16) "Department" means the department of ecology.

(17) "Dewatering well" means a cased or lined excavation or boring that is intended to withdraw or divert ground water for the purpose of facilitating construction, stabilizing a land slide, or protecting an aquifer.

(18) "Director" means director of the department of ecology.

(19) "Disinfection" or "disinfecting" is the use of chlorine, or other disinfecting agent or process approved by the department, in sufficient concentration and contact time adequate to inactivate coliform or other indicator organisms.

(20) "Domestic water supply" is any water supply which serves a family residence(s).

(21) "Draw down" is the measured difference between the static ground water level and the ground water level induced by pumping.

(22) "Drilled well" is a well in which the hole is usually excavated by mechanical means such as rotary, cable tool, or auger drilling equipment.

(23) "Driven well" is a well constructed by joining a "drive point" to a length of pipe, then driving the assembly into the ground.

(24) "Dug well" is a well generally excavated with hand tools or by mechanical methods. The side walls may be supported by material other than standard weight steel casing.

(25) "Filter pack" means clean, well rounded, smooth, uniform, sand or gravel, which is placed in the annulus of the well between the bore hole wall and the liner, perforated pipe, or well screen to prevent formation material from entering the well.

(26) "Formation" means an assemblage of earth materials grouped together into a unit that is convenient for description or mapping.

(27) "Ground water" means and includes ground waters as defined in RCW 90.40.035.

(28) "Grout" is a fluid mixture of cement, bentonite, and water used to seal the annular space around or between well casings, or to decommission wells.

(29) "Impermeable" is a descriptive term for earth materials which have a texture or structure that does not permit fluids to perceptibly move into or through its pores or interstices.

(30) "Liner" means any device inserted into a larger casing, screen, or bore hole as a means of maintaining the structural integrity of the well.

(31) "Permeability" is a measure of the ease of which liquids or gas move through a porous material.

(a) For water, this is usually expressed in units of centimeters per second or feet per day. Hydraulic conductivity is a term for water permeability.

(b) Soils and synthetic liners with a water permeability of 1 x 10[-7] cm/sec or less may be considered impermeable.

(32) "Pollution" has the meaning provided in RCW 90.48.020.

(33) "Pressure grouting" is a method of forcing grout into specific portions of a well for sealing purposes.

(34) "PTFE" means polytetrafluoroethylene casing materials such as teflon. The use of the term teflon is not an endorsement for any specific PTFE product.

(35) "Public water supply" is any water supply intended or used for human consumption or other domestic uses, including source, treatment, storage, transmission and distribution facilities where water is furnished to any community, collection or number of individuals, available to the public for human consumption or domestic use, excluding water supplies serving one single-family residence and a system with four or fewer connections, all of which serve residences on the same farm.

(36) "PVC" means polyvinyl chloride, a type of thermoplastic casing.

(37) "Static water level" is the vertical distance from the surface of the ground to the water level in a well when the water level is not affected by withdrawal of ground water.

(38) "Temporary surface casing" is a length of casing (at least four inches larger in diameter than the nominal size of the permanent casing) which is temporarily installed during well construction to maintain the annular space.

(39) "Test well" is a well (either cased or uncased), constructed to determine the quantity of water available for beneficial uses, identifying underlying rock formations (lithology), and to locate optimum zones to be screened or perforated. If a test well is constructed with the intent to withdraw water for beneficial use, it must be constructed in accordance with the minimum standards for water supply wells, otherwise they shall be constructed in accordance with the minimum standards for resource protection wells. A water right permit, preliminary permit, or temporary permit shall be

obtained prior to constructing a test well unless the anticipated use of water is exempt as provided in RCW 90.44.050. A "test well" is a type of "water well."

(40) "Tremie tube" is a small diameter pipe used to place grout, filter pack material, or other well construction materials in a well.

(41) "Turbidity" means the clarity of water expressed as nephelometric turbidity units (NTU) and measured with a calibrated turbidimeter.

(42) "Unconsolidated formation" means any naturally occurring, loosely cemented, or poorly consolidated earth material including such materials as uncompacted gravel, sand, silt and clay.

Alluvium, soil, and overburden are terms frequently used to describe such formations.

(43) "Water well" means any excavation that is constructed when the intended use of the well is for the location, diversion, artificial recharge, observation, monitoring, dewatering or withdrawal of ground water for agricultural, municipal, industrial, domestic, or commercial use.

(44) "Water well contractor" means any person, firm, partnership, copartnership, corporation, association, or other entity, licensed and bonded under chapter 18.27 RCW, engaged in the business of constructing water wells.

(45) "Well alteration(s)" include(s): Deepening, hydrofracturing or other operations intended to increase well yields, or change the characteristics of the well. Well alteration does not include general maintenance, cleaning, sanitation, and pump replacement.

(46) "Well completion" means that construction has progressed to a point at which the drilling equipment has been removed from the site, or a point at which the well can be put to its intended use.

(47) "Well driller(s)" or "driller(s)" is synonymous with "operator(s)."

(48) "Well" means water wells, resources protection wells, instrumentation wells, dewatering wells, and geotechnical soil borings. Well does not mean an excavation made for the purpose of obtaining or prospecting for oil or natural gas, geothermal resources, minerals, or products of mining, or quarrying, or for inserting media to repressure oil or natural gas bearing formations, or for storing petroleum, natural gas, or other products.

[Statutory Authority: Chapter 18.104 RCW. 98-18-104 (Order 98-17), § 173-160-111, filed 9/2/98, effective 10/3/98. Statutory Authority: Chapter 18.104 RCW and RCW 43.21A.080. 98-08-032 (Order 97-08), § 173-160-111, filed 3/23/98, effective 4/23/98.]

Reviser's note: The brackets and enclosed material in the text of the above section occurred in the copy filed by the agency.

WAC 173-160-121 What should I know about drilling wells that require water right permits? (1) Unless a ground water withdrawal is exempt from the permit requirements under RCW 90.44.050, a well cannot be drilled without the well owner first obtaining a water permit from the department authorizing the use of water from the well.

(2) The licensed operator must have a copy of the water right permit or certificate on site at all times.

(3) Every well that requires a permit shall be constructed to meet the provisions of that permit. Provisions may include:

(a) Limitations on zones of completion.

(b) Special sealing requirements.

(c) Special casing and liner requirements.

(d) Other specific construction and testing details.

(4) As provided in WAC 173-548-050, no water well may be constructed for any purpose in subbasins closed in the Methow water resources regulation:

(a) Including those exempted from permitting under RCW 90.44.050;

(b) Unless written approval has been obtained from the department prior to beginning well construction.

[Statutory Authority: Chapter 18.104 RCW and RCW 43.21A.080. 98-08-032 (Order 97-08), § 173-160-121, filed 3/23/98, effective 4/23/98.]

WAC 173-160-131 What should the well owner know about water metering? The department may require water users to measure the quantity of water withdrawn from wells, to record water use, and/or to report the water use information to the department. Until the department develops specific metering and reporting requirements, these requirements may be provided for in individual water permits or as otherwise ordered by the department for specific wells and ground water use.

[Statutory Authority: Chapter 18.104 RCW and RCW 43.21A.080. 98-08-032 (Order 97-08), § 173-160-131, filed 3/23/98, effective 4/23/98.]

WAC 173-160-141 What are the requirements regarding water well reports? (1) Anyone who constructs a well is required to submit a complete report on the construction, alteration, or decommissioning of the well to the department within thirty days after completion of a well, or after the drilling equipment has left the site.

(a) This applies to all water wells.

(b) The water well report must be made on a form provided by the department, or a reasonable facsimile of the form, as approved by the department.

(2) Where applicable the water well report must include, at least, the following information:

(a) Owner name; operator/trainee name; operator/trainee license number; contractor registration number, drilling company name;

(b) Tax parcel number;

(c) Well location address;

(d) Location of the well to at least 1/4, 1/4 section or smallest legal subdivision;

(e) Unique well identification tag number;

(f) Construction date;

(g) Start notification number;

(h) Intended use of well;

(i) The well depth, diameter, and general specifications of each well;

(j) Total depth of casing;

(k) Well head elevation;

(l) Drilling method;

(m) Seal material, seal location and type of placement used;

(n) Filter pack location; filter pack material used;

(o) The thickness and character of each bed, stratum or formation penetrated by each well, including identification of each water bearing zone;

(p) Casing gauge, diameter, stickup, type of material, and length, also of each screened interval or perforated zone in the casing;

(q) The tested capacity of each well in gallons per minute, and the test duration and draw down of the water level at the end of the capacity test;

(r) Recovery data;

(s) For each nonflowing well, the depth to the static water level, as measured below the land surface;

(t) For each flowing well, the shut-in pressure measured above the land surface, or in pounds per square inch at the land surface; and

(u) Such additional factual information as may be required by the department.

(3) The well report must show the license number and signature of the person who constructed the well. If this is an unlicensed person, exempted under RCW 18.104.180(2), the report shall show the license number and signature of the licensed operator who witnessed the drilling. Water well reports for wells constructed by trainees shall have the signature and license number of the trainee and the licensed operator.

(4) If a well report is missing, a new report may be generated. This report shall contain all physical components of the well and report all available information in accordance with this section. The report shall be signed by the individual collecting the physical information of the well.

[Statutory Authority: Chapter 18.104 RCW and RCW 43.21A.080. 98-08-032 (Order 97-08), § 173-160-141, filed 3/23/98, effective 4/23/98.]

WAC 173-160-151 Does the department require prior notice and fees for well constructing, reconstructing, or decommissioning a water well? (1) Yes. The property owner, owner's agent, or water well operator shall notify the department of their intent to begin well construction, reconstruction-alteration, or decommissioning procedures at least seventy-two hours before starting work.

(2) The notice of intent is submitted on forms provided by the department and must contain the following:

(a) Well owner name;

(b) Well location; street address; county name, 1/4, 1/4 section, township, and range, and tax parcel number;

(c) Proposed use; (if the intended withdrawal requires a water right, the permit or certificate shall be attached to the notice of intent);

(d) Approximate start and completion dates;

(e) Contractor registration number;

(f) Operator/trainee name and license number; and

(g) Drilling company name.

(3) In an emergency, a public health emergency, or in exceptional instances, the department may allow verbal notification to the appropriate regional office, with a start card written notification follow–up and payment of fee submitted within twenty-four hours. An emergency situation may consist of a failing well, or water quality issues which could result in a public health or safety concern.

(4) The notice must be accompanied by the following fees which apply to all newly constructed or altered wells:

(a) The fee for one new water well, other than a dewatering well, with a top casing diameter of less than twelve inches is one hundred dollars.

(b) The fee for one new water well, other than a dewatering well, with a top casing diameter of twelve inches or greater is two hundred dollars.

(c) The combined fee for construction and decommissioning of a dewatering well system shall be forty dollars for each two hundred horizontal lineal feet, or portion of horizontal lineal feet, of the dewatering well system.

(d) There is no fee for decommissioning a water well.

(5) If drilling results in an unusable well (dry hole), there is no additional fee for a second attempt, provided:

(a) A subsequent attempt at constructing a new well is made immediately; and

(b) The unusable well(s) is properly decommissioned before drilling equipment leaves the well site; and

(c) The department is notified of all decommissionings; and

(d) A well report describing the decommissioning process is submitted to the department in accordance with this chapter.

(6) A new notice of intent and fee shall be required on all follow-up construction after the drilling equipment has left the drill site.

(7) A refund shall be made on any well that has not been constructed provided, a written request is made by the person who paid the fee and is submitted to the department within twelve months from the date the notice and fee were received by the department. A copy of the notice of intent receipt must accompany the request.

[Statutory Authority: Chapter 18.104 RCW and RCW 43.21A.080. 98-08-032 (Order 97-08), § 173-160-151, filed 3/23/98, effective 4/23/98.]

WAC 173-160-161 How shall each water well be planned and constructed? Every well must be planned and constructed so that it is:

(1) Adapted to those geologic and ground water conditions known to exist at the well site to insure utilization of any natural protection available;

(2) Not a conduit for contaminating the ground water nor a means of wasting water;

(3) Capable of yielding, where obtainable, the quantity of water necessary to satisfy the requirements the user has stated are needed and for which the well water is intended to be used.

[Statutory Authority: Chapter 18.104 RCW and RCW 43.21A.080. 98-08-032 (Order 97-08), § 173-160-161, filed 3/23/98, effective 4/23/98.]

WAC 173-160-171 What are the requirements for the location of the well site and access to the well? (1) The proposed water well shall be located on high ground that is not in the floodway.

(2) It shall be protected from a one hundred year flood and from any surface or subsurface drainage capable of impairing the quality of the ground water supply.

(3) All wells shall not be located within certain minimum distances of known or potential sources of contamination.

(a) Some examples of sources or potential sources of contamination include:

(i) Septic systems, including proposed and reserve sites under a valid septic design: Provided, That the design has been approved for installation by a health authority;

(ii) Manure, sewage, and industrial lagoons;

(iii) Landfills;

(iv) Hazardous waste sites;

(v) Sea-salt water intrusion areas;

(vi) Chemical and petroleum storage areas;

(vii) Pipelines used to convey materials with contamination potential;

(viii) Livestock barns and livestock feed lots.

(b) Minimum set-back distances for water wells other than for public water supply are:

(i) Five feet from any building projection. Water wells shall not be located in garages or inhabited dwellings.

(ii) Fifty feet from a septic tank, septic holding tank, septic containment vessel, septic pump chamber, and septic distribution box.

(iii) Fifty feet from building sewers, collection and nonperforated distribution lines.

(iv) One hundred feet from the edge of a drainfield, proposed drainfield which has been approved by a health authority, and reserve drainfield areas.

(v) One hundred feet from all other sources or potential sources of contamination except for solid waste landfills.

(vi) One thousand feet from the property boundary of a solid waste landfill.

(c) All public water supply wells shall be located by the department of health or the local health authority.

(i) Before construction begins, site approval must be obtained from the department of health, or the local health authority.

(ii) The requirements of the state board of health regulation regarding public water supplies shall apply.

(iii) This regulation includes requirements for zones of protection, location of the well, accessibility features, and certain construction requirements.

(4) In siting a well, the driller shall consider:

(a) All local and state water well construction regulations, policies, and ordinances;

(b) Permeability of the soil or rock;

(c) Adjacent land uses;

(d) Local ground water conditions; and

(e) End use of the well.

(5) When a well is located in an area of known or potential contamination, the water well casing and seal shall be impervious to the contaminants.

(6) Before construction, the water well operator should strongly emphasize to the well owner, the importance of retaining good accessibility to the well to permit future inspection, maintenance, supplementary construction, and decommissioning.

[Statutory Authority: Chapter 18.104 RCW and RCW 43.21A.080. 98-08-032 (Order 97-08), § 173-160-171, filed 3/23/98, effective 4/23/98.]

WAC 173-160-181 What are the requirements for preserving the natural barriers to ground water movement between aquifers? (1) In constructing a water well, care shall be taken to preserve the natural barriers to ground water movement between aquifers.

(2) Care shall be taken to seal aquifers or strata penetrated during drilling operations which might impair water quality or result in cascading water.

(3) Water wells may not interconnect aquifers.

(4) All sealing must be permanent and prevent movement of surface, or ground water into the annular space between the permanent casing and the bore hole.

(5) Sealing shall prevent the upward movement of artesian waters within the annular space around the well casing and prevent the contamination or wasting of ground water.

(6) Sealing shall prevent the movement of ground water either upward or downward from zones that were cased off.

[Statutory Authority: Chapter 18.104 RCW and RCW 43.21A.080. 98-08-032 (Order 97-08), § 173-160-181, filed 3/23/98, effective 4/23/98.]

WAC 173-160-191 What are the design and construction requirements for completing wells? (1) You may complete wells with screens, perforated liners or pipe, or open bottom completion. The well driller or designer shall advise the owner or the owner's representative of the most appropriate method of completion.

(2) All well components must be of sufficient strength to withstand the normal forces to which they are subjected during and after construction.

(3) Water wells must be completed in a manner which prevents the production of untreatable amounts of sand, silt, or turbid water which would render the well unusable.

(4) Open bottom completion is appropriate where the withdrawn waters are essentially free of sand, silt and turbidity.

(5) Perforated pipe completion is suitable for a coarse-grained, permeable aquifer where the withdrawn waters are free of sand, silt or turbidity.

(6) Perforations above the static water level are not permitted.

(7) In place perforations with Star, Mills knife, or similar type perforators are acceptable.

(8) Perforated pipe liners, either saw cut, torch cut, mill slotted, or punched are acceptable.

(9) The use of perforated casing for working casing as the hole is being drilled is prohibited, except in those cases where the contractor can, through personal experience in the particular area of drilling, attest to the sufficiency of the preperforated casing in all respects for the specific well being constructed.

(10) Pipe liners may be of steel, plastic or other suitable corrosion resistant material.

(11) All liners must be of sufficient strength to withstand normal forces exerted upon the liner material during installation and operation.

(12) Liners may be used in a natural development or gravel packed type construction.

(13) The installation of a liner without a gravel pack is prohibited when conditions exist that will result in excessively turbid water.

(14) Well screens and well points must be constructed of compatible corrosion resistant material.

(a) A neoprene, or grout seal shall be fitted to the top of the well screen assembly, if necessary.

(b) The bottom of the well screen shall be plugged or capped.

(c) The use of lead packers is prohibited.

(15) The alignment of the permanent casing or liner shall be sufficiently plumb and straight to allow the installation of screens, liners, pumps, and pump columns without binding or having adverse affects on the operation of the installed pumping equipment.

(a) Alignment of the well casing or bore hole shall not deviate from an alignment that would allow a twenty foot test section of pipe to be inserted to the bottom of the well without binding.

(b) The diameter of the test section of pipe shall be per Table 1 in WAC 173-160-201.

(c) For testing alignment in casing reductions, each section shall be tested separately.

[Statutory Authority: Chapter 18.104 RCW and RCW 43.21A.080. 98-08-032 (Order 97-08), § 173-160-191, filed 3/23/98, effective 4/23/98.]

WAC 173-160-201 What are the casing and liner requirements? (1) Proper casing must be installed in all water supply wells.

(2) The casing shall withstand normal forces which act upon it during and after installation. It shall be resistant to the corrosive effects of the surrounding formations, earth, and water.

(3) All plastic casing for use in potable water supply wells must be manufactured to conform to National Sanitation Foundation (NSF) Standard 14-84, or the most recent revision.

(4) Unless prior approval is obtained from the department, materials for well casings must be either steel casing as shown in Table 1 or plastic casing as shown in Table 2.

(5) Minimum specifications for steel casing and pipe for water wells are shown in Table 1.

(6) Steel casing larger than twenty inches shall have a minimum wall thickness of 0.375 inches.

TABLE 1
Minimum Specifications for Steel Casing and Pipe

NOMINAL SIZE (inches)	OUTSIDE DIAMETER (inches)	WALL THICK-NESS(inches)	WEIGHT PER FOOT(pounds)	TEST SECTION OUTSIDE DIAMETER (inches)
1.25	1.660	0.140	2.27	0.500
1.5	1.900	0.145	2.72	0.750
2.0	2.375	0.154	3.65	1.000
2.5	2.875	0.203	5.79	1.500
3.0	3.500	0.216	7.58	2.000
3.5	4.000	0.226	9.11	2.500
4.0	4.500	0.237	10.79	3.000
5.0	5.563	0.258	14.62	3.500
6.0	6.625	0.250	17.02	4.000
8.0	8.625	0.250	22.36	6.000
10	10.750	0.250	28.04	8.000
12	12.750	0.250	33.38	10.000
14	14.000	0.312	45.61	11.000
16	16.000	0.344	57.52	14.000
18	18.000	0.375	70.59	16.000
20	20.000	0.375	78.60	18.000
24	24.000	0.375	94.62	20.000
30	30.000	0.375	118.65	24.000

STEEL CASING

(7) All steel casing materials must be new or, in like new condition, and be structurally sound.

(a) Casing that has been exposed to a contaminant shall not be used in well construction unless the contamination can be entirely removed.

(b) When casing lengths are joined together, they must be connected by watertight weld or screw coupled joints.

(i) Welded joints must be at least as thick as the wall thickness of the well casing and be fully penetrating.

(ii) All steel well casing shall meet or exceed the minimum American Society for Testing and Materials (ASTM) A-53 A or B specification for steel pipe.

PLASTIC CASING

(8) Plastic, fiberglass, PVC, SR, ABS, or other type of nonmetallic well casing must be manufactured and installed to conform with ANSI/ASTM F 480-81, Standard Dimension Ratio (SDR) 21 or the most recent revision.

(a) SDR is calculated by dividing the outside diameter of the pipe by the wall thickness.

(b) SDR 21 is the minimum requirement; higher pressure rated pipe may be used.

(c) All plastic casing must be installed only in an oversized drill hole without driving. The oversized hole must be a diameter of at least 4 inches larger than the outside diameter of the plastic casing or coupling hubs, whichever is larger.

(d) All plastic casing must be new or, in like new condition and clearly marked by the manufacturer showing nominal size, type of plastic material, SDR, ASTM designation, and have a National Sanitation Foundation (NSF) seal of approval for use in potable water supplies.

(e) Casing that has been exposed to a contaminant shall not be used in well construction unless the construction can be entirely removed.

(f) Plastic casing joints must be watertight.

(i) Either "bell" type, threaded joints, or coupling hubs are approved.

(ii) Hub couplings must be of materials meeting the specifications for plastic casings as stipulated in subsection (2) of this section.

(iii) If joints are secured with solvent cement, it must be done in accordance with manufacturer's directions.

(g) Table 2 is the manufacturer's recommendations for specifications of plastic casing.

TABLE 2
Minimum Specifications for Plastic Casing

NOMINAL CASING DIAMETER (inches)	MINIMUM THICKNESS (inches)	SDR
2.0	0.13321	21
2.5	0.13721	21
3.0	0.16721	21
3.5	0.19021	21
4.0	0.21421	21
4.5	0.23621	21
5.0	0.26521	21
6.0	0.31621	21
8.0	0.41021	21
10	0.51121	21
12	0.60621	21

LINER PIPE

(9) Liner pipe must consist of steel, in new or like new condition, free of pits or breaks; or polyvinyl chloride (PVC), CPVC, type 1120, with SDR 21 (Class 200) or greater wall thickness. All PVC must be clearly marked to identify the type, class, and SDR.

(a) Liner pipe must be of sufficient strength to withstand breakage or collapse when the well is pumped and meet ASTM potable water standards.

(b) When installed, liner pipe shall extend or telescope at least two feet into the lower end of the well casing. If more than one string of liner pipe is installed, each string shall extend or telescope at least eight feet into the adjacent larger diameter liner pipe.

(c) Liner pipe may not be permanently fixed to a well casing below land surface.

CONCRETE CURBING

(10) The concrete used to make curbing must consist of clean, hard and durable aggregate with not less than five sacks (ninety-four pounds per sack) of portland cement per cubic yard of concrete.

(a) The maximum diameter of aggregate particles may not exceed 1 1/2 inches, but in any case may not exceed 1/5 the minimum width of the casing thickness.

(b) The ratio of coarse aggregate to fine aggregate (passing No. 4 U.S. Standard Sieve) must be approximately 1 1/2 to 1 by volume, but in any case, may not exceed 2 to 1 nor be less than 1 to 2.

(11) The curbing shall be at least six inches thick and free of voids. The walls shall be poured in one continuous operation.

(12) When concrete tile is used to line a well, the combined total wall thickness and seal shall be a minimum of six inches.

[Statutory Authority: Chapter 18.104 RCW. 98-18-104 (Order 98-17), § 173-160-201, filed 9/2/98, effective 10/3/98. Statutory Authority: Chapter 18.104 RCW and RCW 43.21A.080. 98-08-032 (Order 97-08), § 173-160-201, filed 3/23/98, effective 4/23/98.]

WAC 173-160-211 What are the recommended well diameters?

TABLE 3
Recommended Well Diameters

Anticipated Well Yield in gpm	Nominal Size of Pump Bowls in inches	Optimum Size of Well Casing in inches
Less than 100	4	6 ID
75 to 175	5	8 ID
150 to 350	6	10 ID
300 to 700	8	12 ID
500 to 1000	10	14 OD
800 to 1800	12	16 OD
1200 to 3000	14	20 OD
2000 to 3800	16	24 OD
3000 to 6000	20	30 OD

[Statutory Authority: Chapter 18.104 RCW and RCW 43.21A.080. 98-08-032 (Order 97-08), § 173-160-211, filed 3/23/98, effective 4/23/98.]

WAC 173-160-221 What are the standards for sealing materials? (1) Bentonite sealant:

(a) Bentonite used to prepare slurries for sealing, or decommissioning shall be specifically designed for this purpose. At no time shall grout slurry contain materials that are toxic, polluting, develop odor or color changes, or serve as a micro-bacterial nutrient. All bentonite slurries shall be prepared and installed according to the manufacturer's instructions. All additives must be certified by a recognized certification authority such as NSF. Active solids content (bentonite) shall be twenty percent by weight or greater in all bentonite slurries. The active solids shall be checked by using the following formula:

$$\frac{\text{Weight of bentonite (lbs.)}}{\text{Weight of bentonite (lbs.)} + (\text{gallons of water} \times 8.33 \text{ lbs./gal})} \times 100 = \% \text{ solids}$$

Example: $\frac{105 \text{ lbs. of bentonite}}{105 \text{ lbs. bentonite} + (50 \text{ gallons of water} \times 8.33 \text{ lbs./gal})} \times 100 = 20\%$ solids

(b) Unhydrated bentonite—pelletized, granulated, powder, or chip bentonite may be used in the construction of seals or in decommissioning of wells. The bentonite material shall be specifically designed for sealing or decommissioning and be within the industry tolerances for dry western sodium bentonite. Polymer additives must be designed and manufactured to meet industry standards to be nondegrading and must not act as a medium which will promote growth of micro-organisms. All unhydrated bentonite used for sealing or decommissioning must be free of organic polymers. Placement of bentonite shall conform to the manufacturer's specifications and result in a seal free of voids or bridges.

(2) **Cement sealants:**

(a) Neat cement consists of either portland cement types I, II, III, or high-alumina cement mixed with not more than six gallons of potable water per sack of cement (ninety-four pounds per sack).

(b) Neat cement grout consists of neat cement with up to five percent bentonite clay added, by dry weight of the bentonite. Bentonite is added to improve flow qualities and compensate for shrinkage.

(c) Concrete sealants consist of clean, hard and durable aggregate with not less than five sacks (ninety-four pounds per sack) of portland cement per cubic yard of concrete sealant.

(i) The maximum diameter of aggregate particles may not exceed 1 1/2 inches, but in any case may not exceed 1/5 the minimum width of the casing thickness.

(ii) The ratio of coarse aggregate to fine aggregate (passing No. 4 U.S. Standard Sieve) must be approximately 1 1/2 to 1 by volume, but in any case, may not exceed 2 to 1 nor be less than 1 to 2.

(d) Expanding agents, such as aluminum powder, may be used at a rate not exceeding 0.075 ounce (1 level teaspoon) per sack (ninety-four pounds per sack) of dry cement. The powder may not contain polishing agents. High-alumina cement and portland cement of any type must not be mixed together.

(3) **Sealing methods:**

(a) When neat cement or neat cement grout is used in sealing, it shall be placed seventy-two hours before additional drilling takes place, unless special additives are mixed with the neat cement or neat cement grout that cause it to set in a shorter period of time.

(b) All hydrated sealing materials shall be placed by tremmying the mixture from the bottom of the annular space to the surface in one continuous operation.

(4) This section may not preclude the use of new sealant materials which have been approved by the technical advisory group.

[Statutory Authority: Chapter 18.104 RCW and RCW 43.21A.080. 98-08-032 (Order 97-08), § 173-160-221, filed 3/23/98, effective 4/23/98.]

WAC 173-160-231 What are the standards for surface seals? (1) All water wells constructed shall have a surface seal which seals the annular space between the bore hole and the permanent surface casing.

(a) The seal shall be constructed to prevent surface contaminants from reaching the ground water.

(b) The surface seal must have a minimum diameter of four inches larger than the nominal size of the surface casing, to include the outside diameter of the bell, in bell and hub couplings.

(c) The surface seal must extend from land surface to a minimum depth of eighteen feet. Except, when the minimum surface seal requirements for driven, jetted, and some dug wells are less than eighteen feet. See the appropriate section for these wells for a detailed description of their sealing requirements.

(2) Sealing material must be placed in an open annular space that is a minimum of four inches greater in diameter than the nominal size of the permanent casing.

(3) The completed surface seal must fully surround the permanent casing, must be evenly distributed, free of voids, and extend to undisturbed or recompacted soil.

(4) After the permanent casing has been set in final position, the annular space shall be filled to land surface with bentonite or cement grout or neat cement. Leaving voids for future installation of equipment such as a pitless adapter is prohibited.

(5) A temporary casing with a minimum length of eighteen feet and a minimum nominal diameter of four inches greater than the permanent casing shall be used in all unconsolidated formations such as in gravels, sands, or other unstable conditions when the use of drilling fluid or other means of keeping the bore hole open are not employed.

(6) Whenever reconstruction involves permanent surface casing movement; or the existing surface seal is damaged; or a surface seal never existed; the driller shall repair, replace, or install a minimum of eighteen feet of surface seal around the permanent casing.

[Statutory Authority: Chapter 18.104 RCW and RCW 43.21A.080. 98-08-032 (Order 97-08), § 173-160-231, filed 3/23/98, effective 4/23/98.]

WAC 173-160-241 What are the requirements for formation sealing? (1) Unconsolidated formation sealing - Without significant clay beds or other confining formations - Drilled wells that penetrate an aquifer overlain by unconsolidated formations such as sand and gravel without significant clay beds (at least six feet thick) or other confining formations shall be sealed in accordance with the surface sealing requirements of WAC 173-160-231. See Figure 1.

(2) Unconsolidated formation sealing - With significant clay beds or other significant confining formations - Drilled wells that penetrate an aquifer overlain by clay or other confining formations that are at least six feet thick, shall be sealed to prevent movement of water or contamination in the annular space between the permanent casing and the clay or other confining formation(s). One of the following methods shall be used to seal the annular space:

(a) A drill hole at least four inches greater in diameter than the nominal size of the permanent well casing shall extend from the land surface into the clay bed or other confining formation located directly above the aquifer to be developed. The annular space shall be filled with bentonite (slurry or unhydrated), cement grout, or neat cement to form a watertight seal between the casing and all significant confining formations encountered during drilling. If bentonite slurry, cement grout, or neat cement is used to seal the annular space it must be placed by either pumping or tremmying the seal material from the lowest clay bed or other confining formation of significance encountered, to land surface. The drill hole shall be kept open through the use of a temporary casing or any other drilling method that stabilizes the bore hole wall. See Figure 1.

(b) An upper drill hole at least four inches greater in diameter than the nominal size of the permanent well casing shall extend to a minimum of eighteen feet from land surface. A temporary casing or other means of maintaining an open bore hole shall be utilized. All temporary casing will have an outside diameter of a minimum of four inches larger than the permanent casing (for example, a ten-inch temporary casing for a six-inch permanent casing). The upper drill hole shall always contain a minimum of nine feet of sealant throughout the advancement of the permanent casing. Except, if the temporary casing is removed or not utilized, the upper drill hole shall be kept full of sealant. See Figure 1.

(3) Consolidated formations - In drilled wells that penetrate an aquifer, either within or overlain by a consolidated formation, sealing of the casing shall conform with one of the following procedures.

(a) Procedure one - An upper drill hole at least four inches greater in diameter than the nominal size of the permanent well casing shall extend from land surface into a sound, unfractured, consolidated formation. Unperforated permanent casing shall be installed to extend to this same depth, and the lower part of the casing shall be driven and sealed into the consolidated formation to establish a watertight seal between the formation and the casing. The remainder of the annular space to land surface shall be filled with cement grout, neat cement, or bentonite.

(i) If the consolidated formation is encountered at a depth less than eighteen feet from land surface, the upper drill hole and permanent casing shall extend to a minimum of eighteen feet from land surface. See Figure 2.

(ii) If cement grout, neat cement, or bentonite slurry is placed by pumping to seal the entire annulus from the bottom up to land surface, the upper drill hole may be a minimum of two inches larger than the outside diameter of the permanent casing.

(b) Procedure two - An upper drill hole at least four inches greater in diameter than the nominal size of the permanent casing extends from land surface to a depth of at least eighteen feet. An unperforated permanent casing shall be

driven into the consolidated formation and sealed in a manner that establishes a watertight seal between the formation and the casing. Throughout the driving of the well casing to the consolidated formation, the annular space between the upper drill hole and the permanent casing shall be kept at least one-half full with unhydrated bentonite, or bentonite slurry. The remainder of the annular space to land surface shall be filled with cement grout, neat cement, or bentonite. See Figure 2.

(c) If temporary surface casing is used in either procedure (a) or (b) of this subsection, the casing must be a minimum of eighteen feet long and at least four inches larger in diameter than the permanent casing. If a consolidated formation is encountered within the first eighteen feet, the temporary casing may terminate at the interface of the consolidated formation. Withdrawal of the temporary casing must take place simultaneously with proper sealing of the annular space to land surface.

[Statutory Authority: Chapter 18.104 RCW and RCW 43.21A.080. 98-08-032 (Order 97-08), § 173-160-241, filed 3/23/98, effective 4/23/98.]

WAC 173-160-251 What are the special sealing standards for artesian wells? (1) When flowing artesian conditions are known or suspected, the operator shall have a written sealing plan prepared prior to initiation of construction. The plan shall identify the type of sealing material that will be used and the method for sealing. The plan shall also contain at least one alternative construction method for sealing and an emergency contingency section which will identify steps to be taken if the ground water flow cannot be controlled.

(2) When artesian water is encountered in the well, an unperforated well casing shall extend into the confining stratum overlying the artesian zone. The casing shall be sealed into the confining stratum to prevent surface and subsurface leakage from the artesian zone. If the well flows at land surface, it must be equipped with a control valve so that flow can be completely stopped.

(3) The well shall be completed with seals, packers or grout that eliminates leakage around the well casing. The driller shall not move the drilling rig from the well site until leakage is completely stopped, unless authority for temporary removal is granted by the department, or when loss of life or property is imminent.

[Statutory Authority: Chapter 18.104 RCW and RCW 43.21A.080. 98-08-032 (Order 97-08), § 173-160-251, filed 3/23/98, effective 4/23/98.]

WAC 173-160-261 How do I seal dug wells? The surface seal of all dug wells shall be constructed to effectively seal the annular space between the undisturbed native material of the upper well hole and the well curbing, which may consist of (concrete tile, steel pipe or liner). The seal depth shall be at least eighteen feet from land to surface or to within three feet of the bottom in dug wells that are less than twenty-one feet in depth. Dug wells may be sealed with cement, neat cement, bentonite, or cement grout. A cap shall be placed on all dug wells. Except during maintenance, the cap shall remain in place. The cap shall prevent entry of pollutants, insects, and mammals into the well. See Figure 3.

[Statutory Authority: Chapter 18.104 RCW and RCW 43.21A.080. 98-08-032 (Order 97-08), § 173-160-261, filed 3/23/98, effective 4/23/98.]

WAC 173-160-271 What are the special sealing standards for driven wells, jetted wells, and dewatering wells? (1) Driven wells - An upper hole at least four inches greater in diameter than the permanent casing shall extend a minimum of six feet below land surface. The annular space between the upper oversized drill hole and the permanent casing must be kept at least one-half full with bentonite or bentonite slurry throughout all driving of the pipe. The remaining annular space to land surface shall be filled with cement grout, neat cement, or bentonite. See Figure 4.

(2) Jetted wells - The surface seal in jetted wells shall be constructed to seal the annular space between the permanent casing and undisturbed native soil. An upper hole at least four inches greater in diameter than the permanent casing shall extend a minimum of six feet below land surface.

(3) Dewatering wells:

(a) Permanent dewatering wells shall be sealed to a depth of eighteen feet or within three feet of the bottom of the well for wells less than twenty-one feet deep. The minimum annular space requirements, sealing material, and decommissioning procedures of this chapter apply to all permanent dewatering wells.

(b) Temporary dewatering wells - Dewatering wells that are in place less than eighteen months and are less than eighteen feet deep are exempt from the sealing requirements of this chapter. Temporary wells that are installed over eighteen months and that are deeper than eighteen feet, must have a minimum of eighteen feet of surface seal and meet the minimum annular space requirements and sealing materials authorized under this chapter.

[Statutory Authority: Chapter 18.104 RCW and RCW 43.21A.080. 98-08-032 (Order 97-08), § 173-160-271, filed 3/23/98, effective 4/23/98.]

WAC 173-160-281 What are the construction standards for artificial gravel-packed wells? In gravel-packed wells, the gravel mixture shall be placed around the screen so that bridging or size separation does not occur. The gravel pack must be clean, and chemically stable. All gravel and water used must be disinfected with at least fifty parts per million (ppm) chlorine for a contact time of at least thirty minutes. Rinse water containing chlorine is a pollutant. Chlorine in the rinse water must be allowed to dissipate and the water must be discharged in a safe manner consistent with the intent of the Water Pollution Control Act, chapter 90.48 RCW. See Figure 5.

[Statutory Authority: Chapter 18.104 RCW and RCW 43.21A.080. 98-08-032 (Order 97-08), § 173-160-281, filed 3/23/98, effective 4/23/98.]

WAC 173-160-291 What are the standards for the upper terminal of water wells? (1) The watertight casing or curbing of any well shall extend at least six inches above the ground surface. Pit completion is prohibited.

(2) Where the site is subject to flooding, the top of the casing must be at least two feet above the estimated water level of a one hundred-year frequency flood.

(3) All wells shall be equipped with an access port that allows for the measurement of the depth to water surface, or

with a pressure gage that indicates the shut-in pressure of a flowing artesian well. See Figure 6. The access ports and pressure gages or other openings in the cover are sealed or capped to prevent entrance of surface water or foreign material into the well.

(4) Any vent opening, observation ports or air-line equipment shall extend from the upper end of the well by watertight piping to a point at least six inches above land surface. The terminals of these facilities shall be shielded or sealed to prevent entrance of foreign matter or pollutants.

(5) A pitless adapter, or similar device is permitted on water wells if it is made with fittings approved by the department of health. The connection must be above static water level.

(6) Any person who removes any part of a surface seal to install a pitless adapter shall repair the seal so that it is brought up to land surface.

[Statutory Authority: Chapter 18.104 RCW. 98-18-104 (Order 98-17), § 173-160-291, filed 9/2/98, effective 10/3/98. Statutory Authority: Chapter 18.104 RCW and RCW 43.21A.080. 98-08-032 (Order 97-08), § 173-160-291, filed 3/23/98, effective 4/23/98.]

WAC 173-160-301 What are the requirements for temporary capping? (1) All wells which are not in use, or are temporarily out of service, must be securely capped so that no contamination can enter the well.

(2) Capping must be affixed by solid welds or equal seal to prevent unauthorized access to the well.

(3) Temporary capping alone will not satisfy the decommissioning requirements of this chapter.

[Statutory Authority: Chapter 18.104 RCW and RCW 43.21A.080. 98-08-032 (Order 97-08), § 173-160-301, filed 3/23/98, effective 4/23/98.]

WAC 173-160-311 What are the well tagging requirements? (1) It shall be the operator's responsibility to place a well identification tag with a unique identification number on every well that they construct, alter, or reconstruct.

(a) The alpha-numeric number shall be recorded on the drilling report in the space provided.

(b) The operator shall remove the well identification tag on all wells they decommission and shall attach the tag to the decommissioning well report.

(2) It shall be the well owner's responsibility to place a well identification tag with a unique identification number on every well they own.

(a) Upon request, the department shall furnish the well owner with a well tag and tagging instructions.

(b) The well owner shall tag their well(s) and submit a completed tagging report to the department.

(3) The well tag shall be permanently attached to the outer well casing or other prominent well feature and be visible above land surface.

(4) All well identification tags shall be supplied by the department.

(5) It is unlawful for a person to tamper with or remove a well identification tag except during well alteration.

[Statutory Authority: Chapter 18.104 RCW and RCW 43.21A.080. 98-08-032 (Order 97-08), § 173-160-311, filed 3/23/98, effective 4/23/98.]

WAC 173-160-321 How do I test a well? (1) Well authorized by appropriation permit - Before being put to use, each well shall be test pumped for yield and draw down. Reports of the test pumping shall be submitted as required in chapter 90.44 RCW. The driller shall be familiar with and meet all testing procedures outlined in the water right permit. The well shall be test pumped at rates equal to, or greater than, are expected from the well during its normal usage. The test pump for public water supply wells shall be operated continuously for a minimum of four hours, or longer if required by the department of health. The yield and draw down shall be determined following at least four hours of stabilized water level observation. Periodic water level observation should be made during draw down and subsequent recovery periods. Periods of observation shall be more frequent during the onset of the draw down and may decrease in frequency as the draw down or recovery proceeds toward stabilization. A bailer test is not an acceptable substitute for testing wells under permit or for public water supply wells.

(2) Wells not requiring appropriation permit - Testing of a well that does not require an appropriation permit shall be conducted for a period of at least one hour. The last twenty minutes of the test shall be conducted at a constant rate of withdrawal to achieve a stabilized pumping level. Test pumping under this section can be either by bailer, air lift, or with a pump.

(3) Test data shall be reported to the department on the water well report.

[Statutory Authority: Chapter 18.104 RCW and RCW 43.21A.080. 98-08-032 (Order 97-08), § 173-160-321, filed 3/23/98, effective 4/23/98.]

WAC 173-160-331 How do I make sure my equipment and the water well are free of contaminants? (1) All tools, drilling equipment and materials shall be free of contaminants prior to beginning well construction. Contaminants include lubricants, fuel, bacteria that will reduce the well efficiency, and any other item(s) that will be harmful to public health and/or the resource or reduce the life of the water well.

(2) Every new or reconditioned water well, after completion of construction or repair, and before being placed in service, shall be cleared of all foreign materials, and free of contamination.

(3) The well casing shall be swabbed and cleaned to remove oil, grease or joint dope.

(4) All pumping equipment, sand or gravel used in gravel-packed water wells and the well casing shall be thoroughly sluiced with clean water and disinfected. The disinfecting agent shall be safe and not impair the potability of the ground water. All disinfectants shall be used in accordance with manufacturer's recommendations.

(5) Before the well is put to use, the standing water in the well shall be disinfected and flushed to remove all traces of disinfectant. A water sample may then be taken and tested for coliform bacteria or other items required by the state department of health or local health authority. Examples of other test items may include: Nitrates, dissolved solids, sodium, iron, pH, manganese, conductivity, hardness, and turbidity. If testing indicates a presence of coliform bacteria, more stringent disinfecting methods may be required by the department of health or local health authority.

If chlorine is used to disinfect the well water, sufficient chlorine will be added to the standing water to give a residual of fifty ppm free chlorine. The chlorine shall remain in the well for a period of at least twenty-four hours. After twenty-four hours, a minimum of one ppm free chlorine residual shall remain in the water before the well is flushed free of chlorine and a sample taken. Other disinfectants placed in the ground water shall be used in quantities that are safe, non-polluting, and that are not a detriment to the potability of the ground water. All disinfectants used in ground water shall be used in accordance with manufacturer's recommendations.

(6) Chlorine and other disinfectants can pollute. Allow the chlorine or other disinfectants in the rinse water to dissipate before discharging the water to surface water. This water shall be discharged in a safe manner consistent with the intent of the Water Pollution Control Act, chapter 90.48 RCW.

[Statutory Authority: Chapter 18.104 RCW and RCW 43.21A.080. 98-08-032 (Order 97-08), § 173-160-331, filed 3/23/98, effective 4/23/98.]

WAC 173-160-341 How do I ensure the quality of drilling water? All water introduced into a well for drilling purposes and for mixing sealing materials shall be obtained from a potable water source and have a chlorine residual of not more than 1 ppm free chlorine.

[Statutory Authority: Chapter 18.104 RCW and RCW 43.21A.080. 98-08-032 (Order 97-08), § 173-160-341, filed 3/23/98, effective 4/23/98.]

WAC 173-160-351 What are the standards for pump installation? All pumps and pumping equipment and materials must be free of contamination and shall be installed in a manner consistent with the intent and purposes of these regulations.

[Statutory Authority: Chapter 18.104 RCW and RCW 43.21A.080. 98-08-032 (Order 97-08), § 173-160-351, filed 3/23/98, effective 4/23/98.]

WAC 173-160-361 Who may supervise the use of explosives? Explosives used for developing or reconditioning any water well must be used under the direct supervision of an individual licensed under chapter 70.74 RCW.

[Statutory Authority: Chapter 18.104 RCW and RCW 43.21A.080. 98-08-032 (Order 97-08), § 173-160-361, filed 3/23/98, effective 4/23/98.]

WAC 173-160-371 What are the standards for chemical conditioning? The use of detergents, chlorine, acids or other chemicals in wells for the purpose of increasing or restoring yield, shall be used according to manufacturer's recommendations. Except for routine maintenance and cleaning, a well drilling license is required for all chemical conditioning that alters the condition of the water well.

[Statutory Authority: Chapter 18.104 RCW and RCW 43.21A.080. 98-08-032 (Order 97-08), § 173-160-371, filed 3/23/98, effective 4/23/98.]

WAC 173-160-381 What are the standards for decommissioning a well? Any well which is unusable, abandoned, or whose use has been permanently discontinued, or which is in such disrepair that its continued use is impractical or is an environmental, safety or public health hazard shall be decommissioned. The decommissioning procedure (as prescribed by these regulations) must be recorded and reported as required by the department.

(1) Cased wells. Cased water wells that were not constructed in accordance with these regulations, or wells which are decommissioned to allow the placement of potential sources of contamination within one hundred feet of the well, or for which a drilling report required under WAC 173-160-141 is missing, shall be decommissioned in one of the following ways:

(a) Perforate the casing from the bottom to within five feet of the land surface and pressure grout the casing.

(i) Perforations shall be at least four equidistant cuts per row, and one row per foot. Each cut shall be at least one and one-half inches long.

(ii) Apply enough pressure to force the sealing material through the perforations, filling any voids on the outside of the casing.

(iii) The remainder of the casing shall be filled with cement grout, neat cement, or bentonite slurry.

(b) Withdraw the casing and fill the bore hole with cement grout, neat cement, or bentonite as the casing is being withdrawn.

(2) If it can be verified through a field examination and review of the drilling report that a water supply well was constructed in accordance with these regulations, and it is not being decommissioned to allow the siting of potential sources of contamination within one hundred feet of the well, it shall be decommissioned by the casing removal, or casing perforation methods described in subsection (1)(a) or (b) of this section or by:

(a) Filling the casing from bottom to within five feet of land surface with bentonite, cement grout, or neat cement.

(b) The casing may be cut off at a maximum of five feet below land surface.

(3) Uncased wells - Backfill uncased wells with concrete, cement grout, neat cement, or bentonite.

(4) Dug wells - Remove all debris and obstructions that impede decommissioning or that may contaminate the aquifer from within the dug well. Install clean chlorinated sand or pea gravel to a point two feet above static water level. Fill the remainder of the well with concrete or bentonite to the land surface. Dug wells with static levels below twenty feet from land surface, may be decommissioned by placing chlorinated sand or pea gravel to the static level and then placing alternating layers of sealing material and chlorinated sand or pea gravel to within twenty feet of land surface. The alternating layers of sand or pea gravel must be a maximum of five feet thick. The minimum thickness of the sealing material layers must be five feet. The remainder of the dug well to a maximum of two feet below land surface shall be filled with bentonite, neat cement, cement grout, or concrete. Bentonite slurry shall not be used to decommission dug wells.

(5) Sealing material placed below the static water level shall be piped directly to the point of application or placed by means of a dump bailer or tremie tube. If cement, cement grout, or neat cement is used to seal below the static water level in the well, the material shall be placed from the bottom up by methods that avoid segregation or dilution of the material. When used to place grout, the discharge end of the tremie tube shall be submerged in the grout to avoid breaking

the seal while filling the annular space. Sealing material may be hand poured above the static water level, provided the material does not dilute or segregate, and the resulting seal is free of voids.

[Statutory Authority: Chapter 18.104 RCW and RCW 43.21A.080. 98-08-032 (Order 97-08), § 173-160-381, filed 3/23/98, effective 4/23/98.]

WAC 173-160-390 Artificial recharge of ground water bodies. Approval must be obtained from the department before starting any project related to the artificial recharge of ground water bodies.

[Statutory Authority: Chapter 18.104 RCW and RCW 43.21A.080. 98-08-032 (Order 97-08), § 173-160-390, filed 3/23/98, effective 4/23/98.]

PART TWO—GENERAL REQUIREMENTS FOR RESOURCE PROTECTION WELL CONSTRUCTION AND GEOTECHNICAL SOIL BORINGS

WAC 173-160-400 What are the minimum standards for resource protection wells and geotechnical soil borings? The following minimum standards shall apply to all resource protection wells and geotechnical soil borings constructed in the state of Washington. It is the responsibility of theresource protection well operator, resource protection well contractor, and the property owner to take whatever measures are necessary to guard against waste and contamination of the ground water resource.

(1) It will be necessary in some cases to construct resource protection wells and geotechnical soil borings with additional requirements beyond the minimum standards.

(2) Nothing in this section limits the department's authority to approve comparable alternative specifications for construction as technology in the industry is developed, or new methods of construction become known to the department.

[Statutory Authority: Chapter 18.104 RCW and RCW 43.21A.080. 98-08-032 (Order 97-08), § 173-160-400, filed 3/23/98, effective 4/23/98.]

WAC 173-160-406 How do I apply for a variance on a resource protection well? (1) When strict compliance with the requirements and standards of this chapter are impractical, any person may submit a variance request to the department from a regulation or regulations. The application for variance must propose a comparable alternative specification that will provide equal or greater human health and resource protection than the minimum standards. Application for a variance shall be made in writing and approved prior to the construction or decommissioning of the well.

(2) The variance application shall contain at least the following information:

(a) Name, address, and phone number of the person requesting the variance;

(b) Address of well site;

(c) 1/4, 1/4, section, township, range;

(d) The specific regulation(s) that cannot be followed;

(e) The comparable alternative specification;

(f) Justification for the request.

(3) The variance application will be evaluated, and a response will be given within fourteen days. In a public health emergency or other exceptional circumstance, verbal notification for a variance may be given. An emergency usually consists of a drilling situation, which if left unaddressed, could harm the ground water resource. Driller convenience does not constitute an emergency.

(4) The emergency variance recipient must immediately follow up with a written notification to the department so that a permanent record is made of the variance.

(5) Local health districts or counties with delegated authority may grant variances under the provision of chapter 18.104 RCW delegated authority.

[Statutory Authority: Chapter 18.104 RCW and RCW 43.21A.080. 98-08-032 (Order 97-08), § 173-160-406, filed 3/23/98, effective 4/23/98.]

WAC 173-160-410 What are the specific definitions for words in this chapter? This section specifically defines words associated with resource protection wells and geotechnical soil borings. To find the definitions of other words, see WAC 173-160-111.

(1) "Geotechnical information" means subsurface engineering properties used for the purpose of designing structures such as bridges, buildings, highways, pipelines, or for assessing slope stability samples to ascertain structural properties of the subsurface.

(2) "Geotechnical soil boring" or "boring" means an uncased well drilled for the purpose of obtaining soil samples to ascertain structural properties of the subsurface. Geotechnical soil boring includes auger borings, rotary borings, cone penetrometer probes and vane shear probes, or any other uncased ground penetration for geotechnical information.

(3) "Instrumentation well" means a well in which pneumatic or electric geotechnical or hydrological instrumentation is permanently or periodically installed to measure or monitor subsurface strength and movement. Instrumentation well includes bore hole extensometers, slope indicators, pneumatic or electric pore pressure transducers, and load cells.

(4) "Lysimeter" means a well used to withdraw soil water or pore samples from subsurface soil or rock above the water table for chemical, physical, or biological testing.

(5) "Monitoring well" means a well designed to obtain a representative ground water sample or designed to measure the water level elevations in either clean or contaminated water or soil.

(6) "Nested well" means the installation of more than one cased resource protection well in one bore hole. This does not preclude casing reductions.

(7) "Observation well" means a well designed to measure the depth to the water or water level elevation in either clean or contaminated water or soil.

(8) "Piezometer" means a well designed to measure water level elevation at a specific depth beneath the water table.

(9) "Remediation well" means a well used to withdraw ground water or inject water, air (for air sparging), or other solutions into the subsurface for the purpose of remediating, cleaning up, or controlling potential or actual ground water contamination.

(10) "Resource protection well" means a cased boring used to determine the existence or migration of pollutants

within an underground formation. Resource protection wells include monitoring wells, observation wells, piezometers, spill response wells, vapor extraction wells, and instrumentation wells.

(11) "Resource protection well contractor" means any person, firm, partnership, copartnership, corporation, association, or other entity, licensed and bonded under chapter 18.27 RCW, engaged in the business of constructing resource protection wells or geotechnical soil borings.

(12) "Spill response well" means a well used to capture or recover any spilled or leaked fluid which has the potential to, or has contaminated the ground water.

(13) "Vapor extraction well" means a well used to withdraw gases or vapors from soil, rock, landfill, or ground water for the purpose of remediating soil and/or ground water contamination.

(14) "Well driller" or "driller" means a resource protection well contractor or operator and a water well contractor or operator.

(15) "Well" means water wells, resources protection wells, instrumentation wells, dewatering wells, and geotechnical soil borings. Well does not mean an excavation made for the purpose of obtaining or prospecting for oil or natural gas, geothermal resources, minerals, or products of mining, or quarrying, or for inserting media to repressure oil or natural gas bearing formations, or for storing petroleum, natural gas, or other products.

[Statutory Authority: Chapter 18.104 RCW and RCW 43.21A.080. 98-08-032 (Order 97-08), § 173-160-410, filed 3/23/98, effective 4/23/98.]

WAC 173-160-420 What are the general construction requirements for resource protection wells? (1) No resource protection well or soil boring excavation may be used for domestic, industrial, municipal, commercial, or agricultural purposes.

(2) No resource protection well or soil boring excavation may interconnect aquifers.

(3) Nested resource protection wells are prohibited.

(4) Cuttings, development water, and other investigation derived waste from resource protection well construction or geotechnical soil borings shall be managed in a manner consistent with the intent and purposes of the Water Pollution Control Act, chapter 90.48 RCW, the Hazardous Waste Management Act, chapter 70.105 RCW, and implementing regulations.

(5) Well tagging:

(a) It shall be the driller's responsibility to place a well identification tag with a unique identification number on every resource protection well that they construct or alter. Uncased geotechnical soil borings are exempt from the tagging requirements of this chapter.

(i) The alpha-numeric number shall be recorded on the drilling report in the space provided.

(ii) The driller shall remove the well identification tag on all resource protection wells they decommission and shall attach the tag to the decommissioning well report.

(b) It shall be the well owner's responsibility to place a well identification tag with a unique identification number on every resource protection well they own and which was completed prior to the effective date of this regulation.

(i) Upon request, the department shall furnish the well owner with a well tag and tagging instructions.

(ii) The well owner shall tag their well(s) and submit a completed tagging report to the department.

(c) The well tag shall be permanently attached to the outer well casing and be visible above land surface for all wells which have been completed above land surface. For wells completed below land surface, the well tag shall be attached to the well casing or to any permanent and protected portion of the vault.

(d) All well identification tags shall be supplied by the department.

(e) It is unlawful for a person to tamper with or remove a well identification tag except during well alteration.

(6) All resource protection wells will be sealed in accordance with this chapter regardless of the method of installation. Except, resource protection wells that are properly decommissioned prior to the removal of any drilling equipment from the well location are exempted from the surface sealing requirements of this chapter. Provided the decommissioning process includes the removal of any conduit, tubing, probe, or other items inserted into the ground.

(7) All geotechnical soil borings shall be decommissioned under the terms of this chapter.

(8) Except as provided in RCW 18.104.180, all construction, alteration, reconstruction, and decommissioning of resource protection wells and geotechnical soil borings shall be done by an individual licensed under the provisions of chapter 173-162 WAC.

(9) A notice of intent to construct or decommission a resource protection well and a geotechnical soil boring shall be filed with the department a minimum of seventy-two hours prior to initiating construction or decommissioning of the well(s) or boring(s). A fee must accompany each notice of intent to construct a resource protection well. The fee for constructing, altering, or reconstructing each resource protection well is forty dollars. Geotechnical soil borings are **EXEMPT** from all fees. Under some circumstances, it may be necessary to construct more resource protection wells or geotechnical soil borings than originally anticipated. When additional resource protection wells are constructed on a site for which a notice of intent and fee were submitted, a second notice and fee shall be submitted within twenty-four hours after all wells have been completed or as soon as the final number of wells to be constructed is determined, whichever is sooner. When additional geotechnical soil borings are needed, the borings may be completed. A follow-up notice of intent shall be submitted to the department within twenty-four hours after all borings are constructed. Notification to construct multiple wells or geotechnical soil borings within the same quarter/quarter section, township, and range may be submitted on one notice form. A fee of forty dollars per well must be attached to each notice. Example: Six resource protection wells identified on one notice of intent would be submitted along with a two hundred forty dollar fee.

(10) Resource protection well and geotechnical soil boring drilling reports.

(a) Every well contractor is required to submit a complete report on the construction, alteration, or decommissioning of all resource protection wells and geotechnical soil bor-

ings they construct. Reports must be submitted to the department within thirty days after completion of construction, alteration, or decommissioning.

(b) This applies to all resource protection wells and geotechnical soil borings.

(c) The resource protection well and geotechnical soil boring report must be made on a form provided by the department, or a reasonable facsimile of the form, as approved by the department.

(d) Where applicable the report shall include the following information:

(i) Owner's name; operator/trainee name; operator/trainee license number; contractor registration number, drilling company name;

(ii) Tax parcel number;

(iii) Well location address;

(iv) Location of the well to at least 1/4, 1/4 section or smallest legal subdivision;

(v) Unique well identification tag number;

(vi) Construction date;

(vii) Start notification number;

(viii) Intended use of well;

(ix) The well depth, diameter, and general specifications of each well;

(x) Total depth of casing;

(xi) Well head elevation;

(xii) Drilling method;

(xiii) Seal material, seal location and type of placement used;

(xiv) Filter pack location; filter pack material used;

(xv) The thickness and character of each bed, stratum or formation penetrated by each well including identification of each water bearing zone;

(xvi) Casing gauge, diameter, stickup, type of material, and length, also of each screened interval or perforated zone in the casing;

(xvii) The depth to the static water level, as measured below the land surface; and

(xviii) Such additional factual information as may be required by the department.

(e) The well report must show the license number and signature of the person who constructed the well. If this is an unlicensed person, exempted under RCW 18.104.180(2), the report shall show the license number and signature of the licensed individual who witnessed the drilling. Resource protection well reports for wells constructed by trainees shall have the signature and license number of the trainee and licensed operator.

What are the surface protection requirements?

(11) All resource protection wells shall be capped and protected using one of the following methods:

(a) If the well is cased with metal and completed above the ground surface, you must attach a watertight cap with a lock to the top of the casing.

(b) If the well is not cased with metal and completed above the land surface, you must install a protective metal casing over and around the well. The protective casing shall extend at least six inches above the top of the well casing and be cemented at least two feet into the ground. A cap with lock shall be attached to the top of the protective casing.

(12) You shall protect the well(s) completed above ground from damage by:

(a) Cementing three metal posts, at least three inches in diameter, in a triangular array around the casing and at least two feet from it. Each post shall extend at least three feet above and below the land surface.

(b) A reinforced concrete pad may be installed to protect against and prevent frost heave. If installed, the concrete pad shall extend to a depth equal to anticipated frost depth. When a concrete pad is used, the well seal may be part of the concrete pad.

(13) If the well is completed below land surface, a watertight cap with a lock shall be attached to the top of the well casing. A metal monument or equivalent shall be installed over and around the well. The monument shall serve as a protective cover and be installed level with the land surface and be equipped with a waterproof seal to prevent the inflow of any water or contaminants. Drains will be provided, when feasible, to keep water out of the well and below the well cap. The cover must be designed to withstand the maximum expected loading.

(14) The protective measures may be waived or modified upon written approval from the department (a variance).

(15) If the well is damaged, the well protection measures and casing shall be repaired to meet the requirements of this chapter. If the well is damaged beyond repair, it shall be decommissioned in accordance with WAC 173-160-460.

[Statutory Authority: Chapter 18.104 RCW. 98-18-104 (Order 98-17), § 173-160-420, filed 9/2/98, effective 10/3/98. Statutory Authority: Chapter 18.104 RCW and RCW 43.21A.080. 98-08-032 (Order 97-08), § 173-160-420, filed 3/23/98, effective 4/23/98. Statutory Authority: Chapter 18.104 RCW. 88-08-070 (Order 88-58), § 173-160-420, filed 4/6/88.]

WAC 173-160-430 What are the minimum casing standards? The casing may not effect or interfere with the chemical, physical, radiological, or biological constituents of interest. All resource protection well casing shall conform to ASTM Standards, or at least 304 or 316 stainless steel, PTFE, or Schedule 40 PVC casing.

[Statutory Authority: Chapter 18.104 RCW and RCW 43.21A.080. 98-08-032 (Order 97-08), § 173-160-430, filed 3/23/98, effective 4/23/98.]

WAC 173-160-440 What are the equipment cleaning standards? (1) When drilling in known or potential areas of contamination, steam clean the drill rig derrick and all drilling equipment on site before and after well construction. If the equipment is used to drill in radioactive areas, you must develop a decontamination plan and the department must approve that plan prior to the equipment being removed from the drill site.

(2) All well construction materials to include casing, screen(s), and filter pack material must be free of contaminants prior to installation.

[Statutory Authority: Chapter 18.104 RCW and RCW 43.21A.080. 98-08-032 (Order 97-08), § 173-160-440, filed 3/23/98, effective 4/23/98.]

WAC 173-160-450 What are the well sealing requirements? (1) All resource protection wells constructed shall have a continuous seal, which seals the annular space between the bore hole and the permanent casing. The seal

shall be constructed to prevent interconnection of separate aquifers penetrated by the well, and shall provide casing stability. The seal shall have a minimum diameter of four inches larger than the nominal size of the permanent casing, and shall extend from land surface to the top of the filter pack. See Figure 7.

(2) After the permanent casing has been set in final position, the filter pack (optional) and sealing material shall be placed in the open bore hole annular space that must be a minimum of four inches greater in diameter than the nominal size of the permanent casing. After installing the filter pack (optional) a layer of bentonite shall be placed on top of the filter pack to maintain separation between the seal material and the screened interval. Insure that placement will not disturb the filter pack. The remaining annular space shall be filled to land surface in a continuous operation with bentonite, neat cement, or cement grout. If a cement/bentonite slurry is used as the sealant, it shall be installed with a tremmie tube and pumped from the top of the bentonite plug (above the filter pack) to land surface. Use only potable water to hydrate the mixture.

(3) The completed annular space shall fully surround the permanent casing, be evenly distributed, free of voids, and extend from the permanent casing to undisturbed or recompacted soil.

(4) All sealing materials used shall conform to one of the following minimum requirements:

(a) **Bentonite sealants:**

(i) Bentonite used to prepare slurries for sealing, or decommissioning shall be specifically designed for this purpose. At no time shall grout slurry contain materials that are toxic, polluting, develop odor or color changes, or serve as a micro-bacterial nutrient. All bentonite slurries shall be prepared and installed according to the manufacturer's instructions. All additives must be certified by a recognized certification authority such as NSF. Active solids content (bentonite) shall be twenty percent by weight or greater in all bentonite slurries.

(ii) Unhydrated bentonite—pelletized, granulated, powder, or chip bentonite may be used in the construction of seals or in decommissioning of resource protection wells. The bentonite material shall be specifically designed for sealing or decommissioning and be within the industry tolerances for dry western sodium bentonite. Polymer additives must be designed and manufactured to meet industry standards to be nondegrading and must not act as a medium which will support or promote the growth of micro-organisms. All unhydrated bentonite used for sealing or decommissioning must be free of organic polymers. Placement of bentonite shall conform to the manufacturer's specifications and result in a seal free of voids or bridges.

(b) **Cement sealants:**

(i) Neat cement consists of either portland cement types I, II, III, or high-alumina cement mixed with not more than six gallons of potable water per sack of cement (ninety-four pounds per sack).

(ii) Neat cement grout consists of neat cement with up to five percent bentonite clay added, by dry weight of the bentonite. Bentonite is to be added to improve flow qualities and compensate for shrinkage.

(iii) Concrete sealants consist of clean, hard and durable aggregate with not less than five sacks (ninety-four pounds per sack) of portland cement per cubic yard of concrete sealant.

(A) The maximum diameter of aggregate particles may not exceed 1 1/2 inches, but in any case may not exceed 1/5 the minimum width of the casing thickness.

(B) The ratio of coarse aggregate to fine aggregate (passing No. 4 U.S. Standard Sieve) must be approximately 1 1/2 to 1 by volume, but in any case, may not exceed 2 to 1 nor be less than 1 to 2.

(iv) Expanding agents, such as aluminum powder, may be used at a rate not exceeding 0.075 ounce (1 level teaspoon) per sack (ninety-four pounds per sack) of dry cement. The powder may not contain polishing agents. High-alumina cement and portland cement of any type must not be mixed together.

(5) This section may not preclude the use of new sealant materials which have been approved by the technical advisory group.

[Statutory Authority: Chapter 18.104 RCW and RCW 43.21A.080. 98-08-032 (Order 97-08), § 173-160-450, filed 3/23/98, effective 4/23/98.]

WAC 173-160-460 What is the decommissioning process for resource protection wells? (1) Resource protection wells that were not constructed in accordance with these regulations, or for which a drilling report required under this section is missing, shall be decommissioned in one of the following ways:

(a) Perforate the casing from the bottom to land surface and pressure grout the casing.

(i) Perforations shall be at least four equidistant cuts per row, and one row per foot. Each cut shall be at least one and one-half inches long.

(ii) Apply enough pressure to force the sealing material through the perforations, filling any voids on the outside of the casing.

(iii) The remainder of the casing shall be filled with cement grout, neat cement, or bentonite slurry.

(b) Withdraw the casing and fill the bore hole with cement grout, neat cement, or bentonite as the casing is being withdrawn.

(2) If it can be verified through a field examination and review of the drilling report that the resource protection well was constructed in accordance with these regulations, it shall be decommissioned by:

(a) Filling the casing from bottom to land surface with bentonite, cement grout, or neat cement; and

(b) Placing a cap on the casing.

[Statutory Authority: Chapter 18.104 RCW. 98-18-104 (Order 98-17), § 173-160-460, filed 9/2/98, effective 10/3/98. Statutory Authority: Chapter 18.104 RCW and RCW 43.21A.080. 98-08-032 (Order 97-08), § 173-160-460, filed 3/23/98, effective 4/23/98.]

WAC 173-160-990 Well construction illustrations.

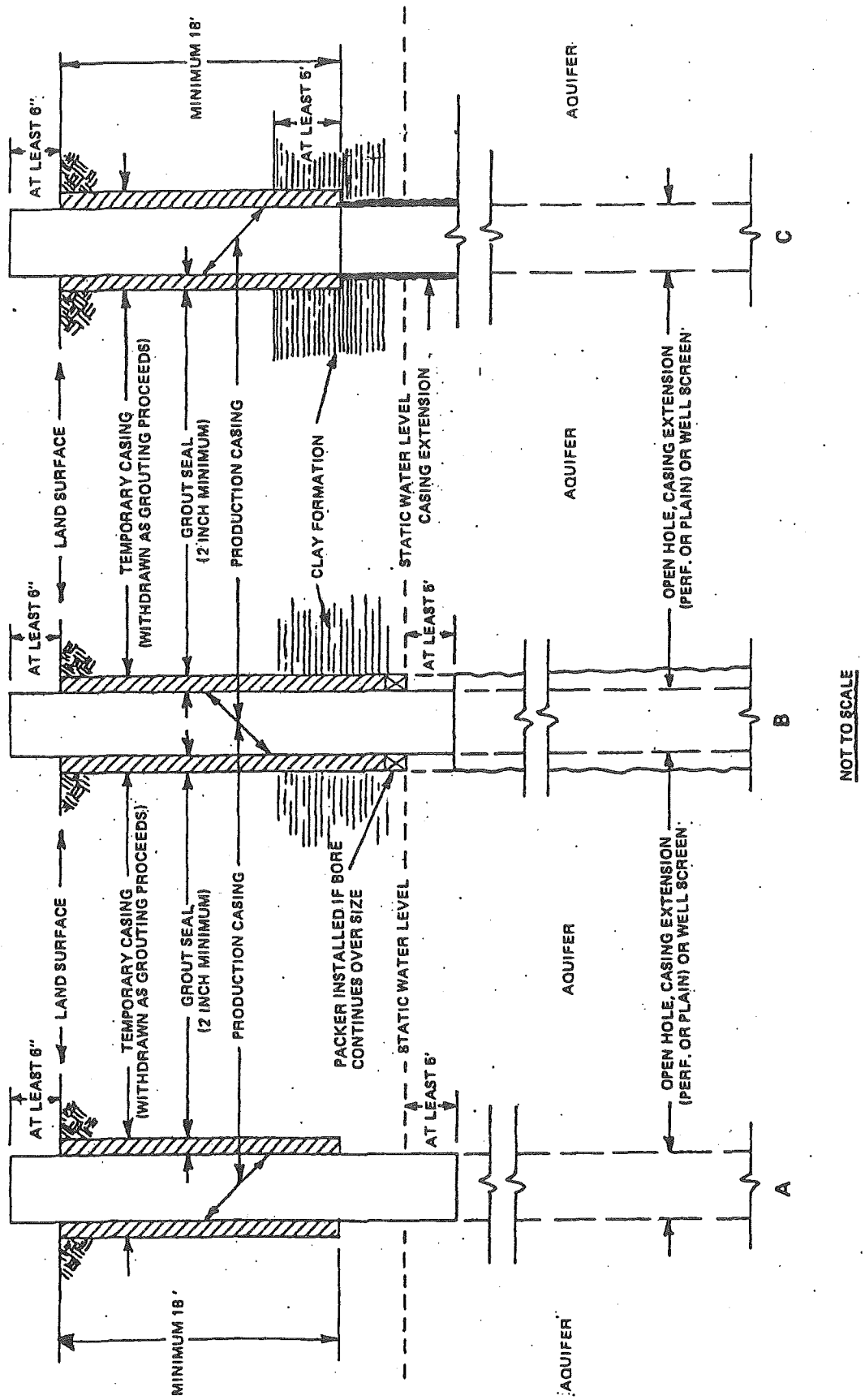


Figure 1. SEALING OF UNCONSOLIDATED FORMATIONS

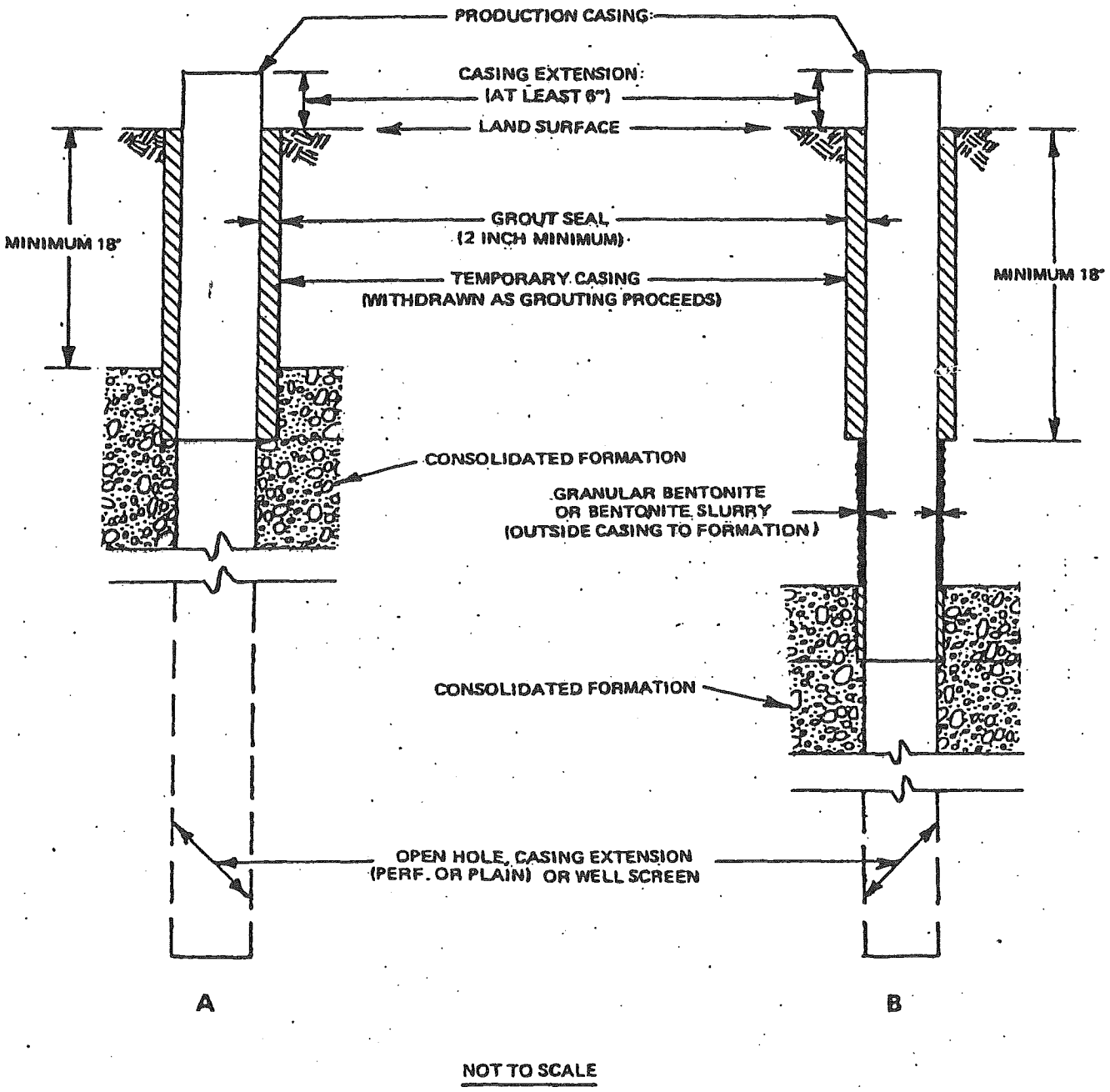


Figure 2. SEALING OF CONSOLIDATED FORMATIONS

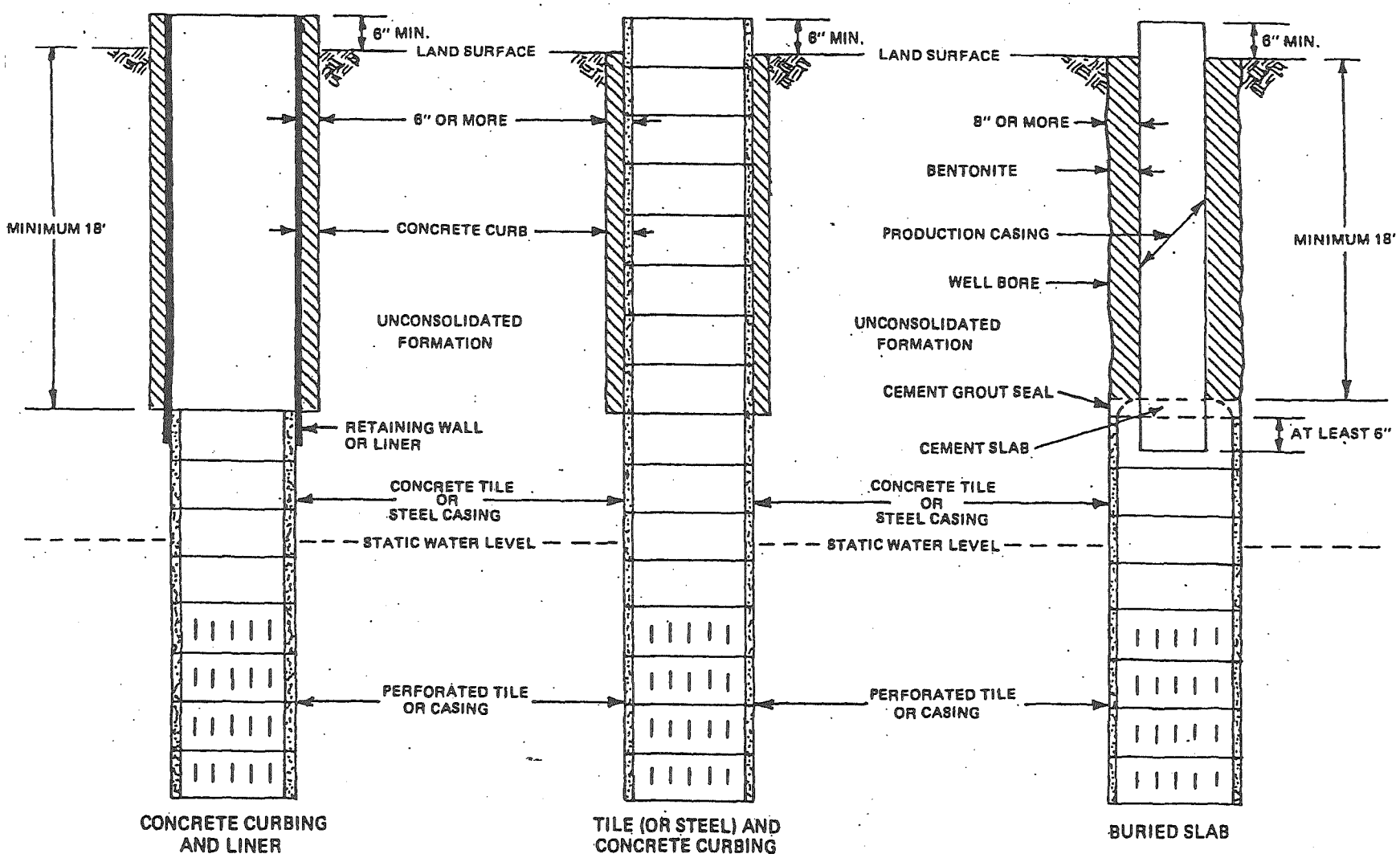


Figure 3. SEALING OF DUG WELLS

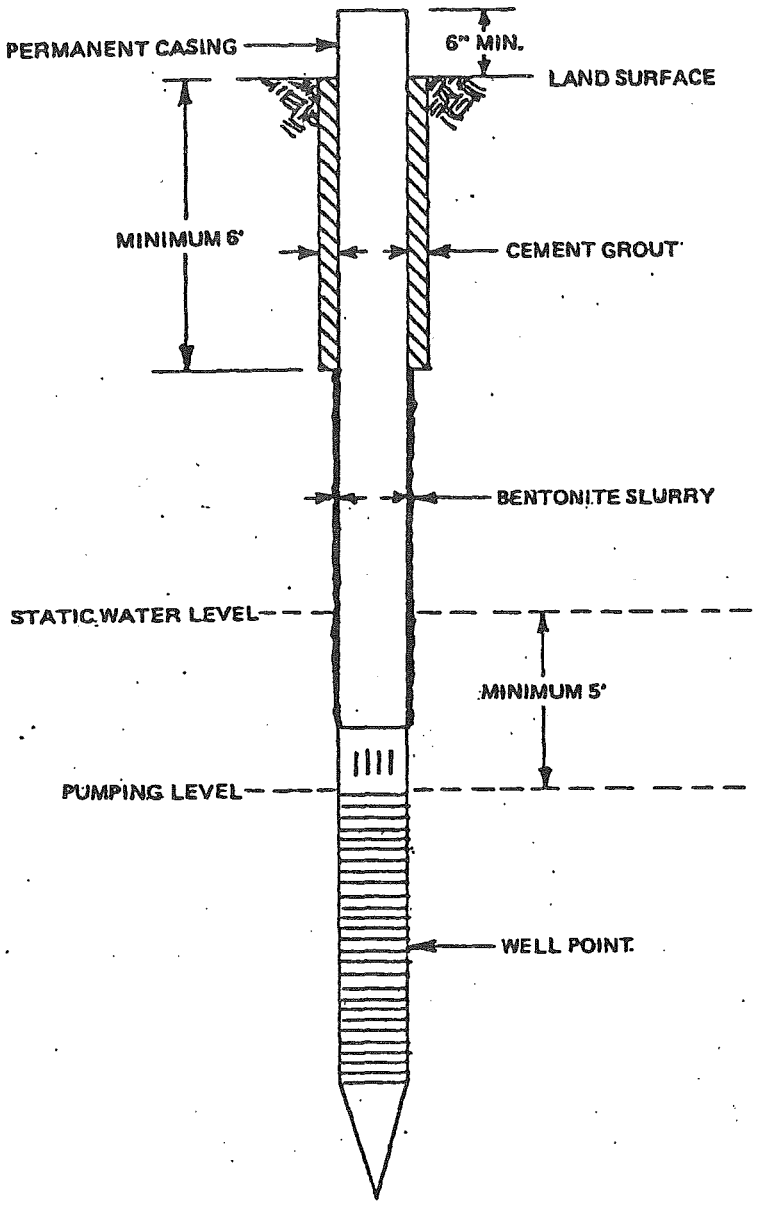
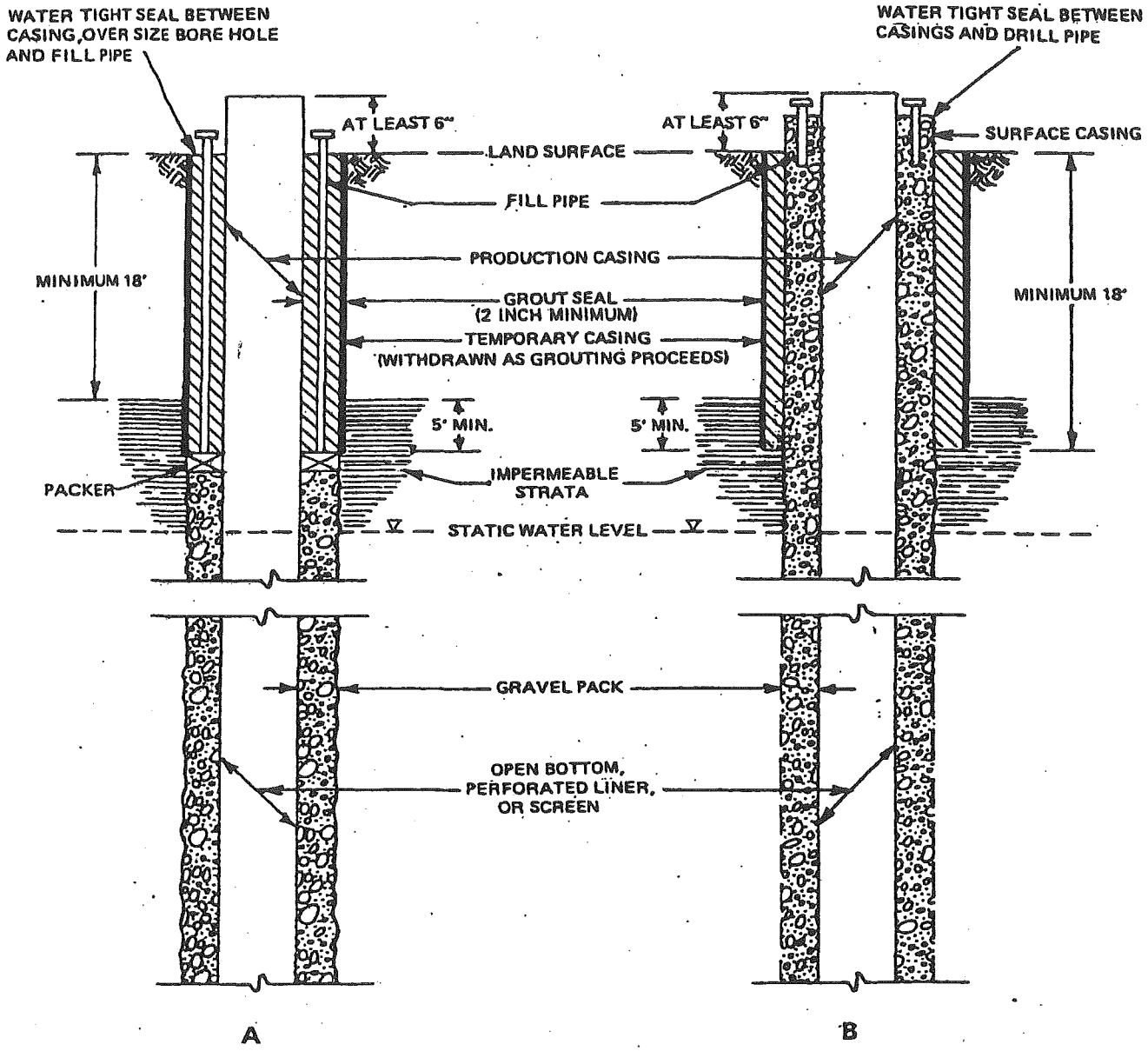


Figure 4. SEALING OF DRIVEN AND JETTED WELLS



NOT TO SCALE

A—WELL CONSTRUCTED WITH TEMPORARY SURFACE CASING.
B—WELL CONSTRUCTED WITH PERMANENT SURFACE CASING.

Figure 5. SEALING OF GRAVEL–PACKED WELLS

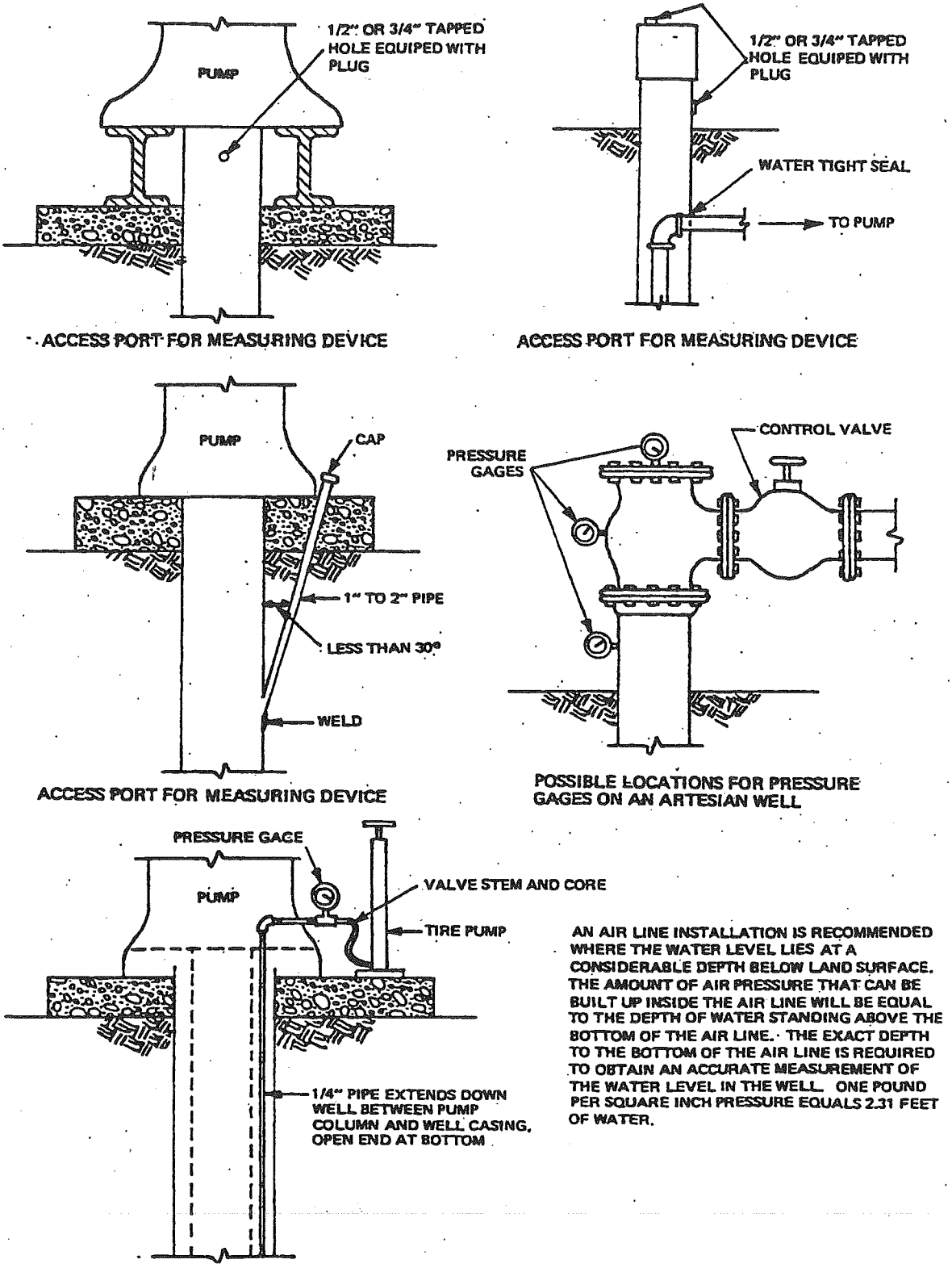


Figure 6.

SUGGESTED METHODS FOR INSTALLING PRESSURE GAGES AND AIR LINES FOR MEASURING WATER LEVELS IN WELLS

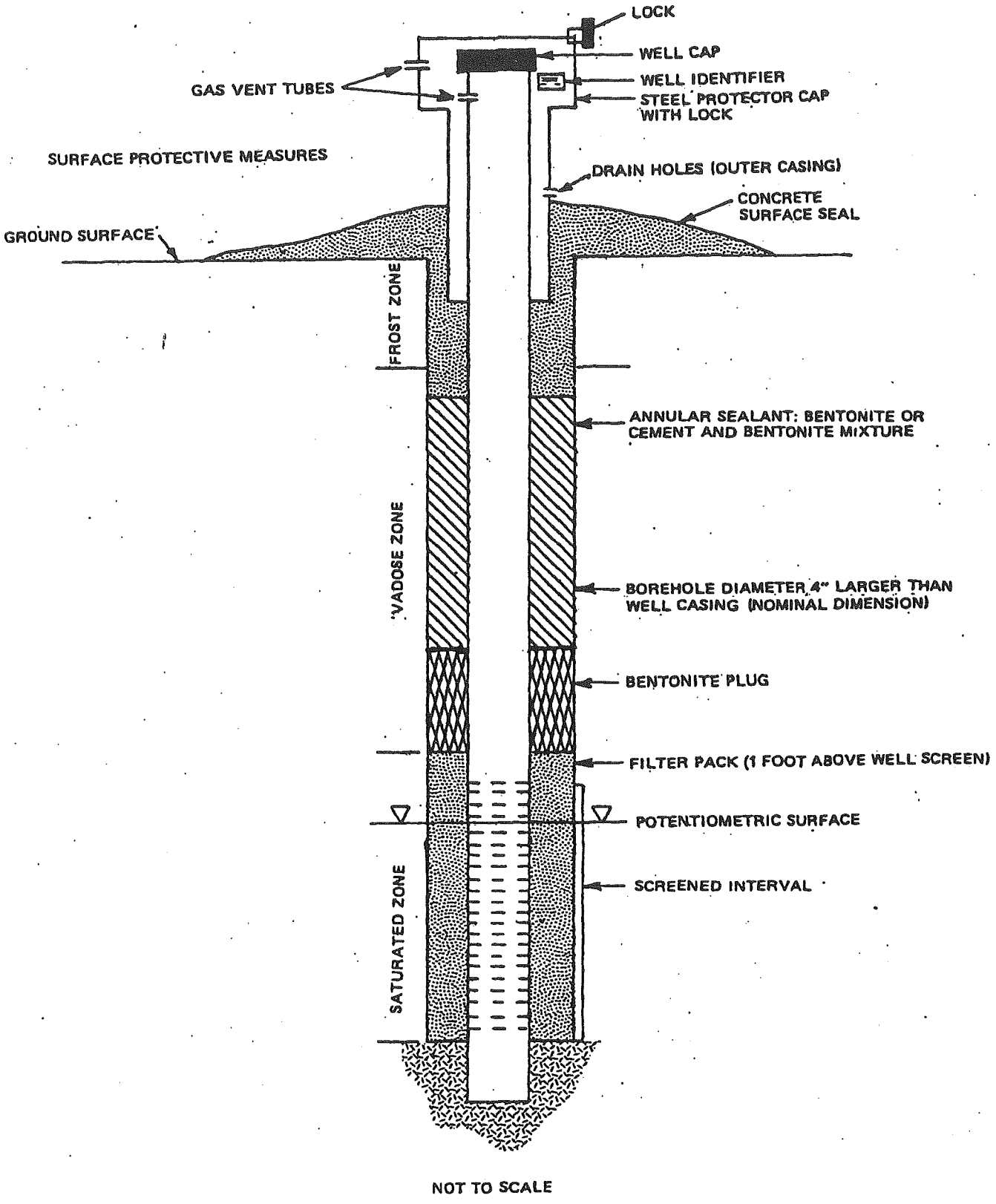


Figure 7. GENERAL RESOURCE PROTECTION WELL—CROSS SECTION.

[Statutory Authority: Chapter 18.104 RCW. 98-18-104 (Order 98-17), § 173-160-990, filed 9/2/98, effective 10/3/98. Statutory Authority: Chapter 18.104 RCW and RCW 43.21A.080. 98-08-032 (Order 97-08), § 173-160-990, filed 3/23/98, effective 4/23/98.]

Chapter 173-162 WAC
REGULATION AND LICENSING OF WELL CONTRACTORS AND OPERATORS

WAC

173-162-010 What is the purpose of these regulations?
173-162-020 To whom do these regulations apply?
173-162-025 What are the reasons for suspending or revoking an operator license?
173-162-030 How are the words and phrases used in this chapter?
173-162-040 How do I comply with licensing requirements?
173-162-050 Who is exempt?
173-162-055 What types of operator licenses are available?
173-162-060 How do you qualify for each license?
173-162-070 What application fees are required?
173-162-075 How often do I need to renew my license?
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173-162-085 Continuing education.
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173-162-130 Licenses—General.
173-162-140 What are the requirements to become an on-site testing advisor?
173-162-190 What are the responsibilities of well contractors and their agents?
173-162-200 What are the department of ecology's enforcement options?
173-162-210 Can I appeal enforcement actions?
173-162-220 Regulation review.

DISPOSITION OF SECTIONS FORMERLY CODIFIED IN THIS CHAPTER

173-162-110 Examinations—Conducting examinations. [Order DE 73-10, § 173-162-110, filed 6/29/73.] Repealed by 88-08-070 (Order 88-58), filed 4/6/88. Statutory Authority: Chapter 18.104 RCW.

173-162-150 Licenses—Conditional license. [Order DE 73-10, § 173-162-150, filed 6/29/73.] Repealed by 88-08-070 (Order 88-58), filed 4/6/88. Statutory Authority: Chapter 18.104 RCW.

173-162-160 Temporary authorization. [Order DE 73-10, § 173-162-160, filed 6/29/73.] Repealed by 88-08-070 (Order 88-58), filed 4/6/88. Statutory Authority: Chapter 18.104 RCW.

173-162-170 Retaking examination.[Statutory Authority: Chapter 18.104 RCW. 88-08-070 (Order 88-58), § 173-162-170, filed 4/6/88; Order DE 73-10, § 173-162-170, filed 6/29/73.] Repealed by 98-08-031 (Order 97-08), filed 3/23/98, effective 4/23/98. Statutory Authority: Chapter 18.104 RCW and RCW 43.21A.080.

173-162-180 Water well contractors—Identification numbers. [Order DE 73-10, § 173-162-180, filed 6/29/73.] Repealed by 88-08-070 (Order 88-58), filed 4/6/88. Statutory Authority: Chapter 18.104 RCW.

WAC 173-162-010 What is the purpose of these regulations? These regulations are adopted under chapter 18.104 RCW in order to establish procedures for the examination, licensing and regulation of well contractors and operators.

[Statutory Authority: Chapter 18.104 RCW and RCW 43.21A.080. 98-08-031 (Order 97-08), § 173-162-010, filed 3/23/98, effective 4/23/98. Statutory Authority: Chapter 18.104 RCW. 88-08-070 (Order 88-58), § 173-162-010, filed 4/6/88; Order DE 73-10, § 173-162-010, filed 6/29/73.]

WAC 173-162-020 To whom do these regulations apply? These regulations apply to all well contractors and operators who are contracting for well construction or constructing wells in the state of Washington.

[Statutory Authority: Chapter 18.104 RCW and RCW 43.21A.080. 98-08-031 (Order 97-08), § 173-162-020, filed 3/23/98, effective 4/23/98. Statutory Authority: Chapter 18.104 RCW. 88-08-070 (Order 88-58), § 173-162-020, filed 4/6/88; Order DE 73-10, § 173-162-020, filed 6/29/73.]

WAC 173-162-025 What are the reasons for suspending or revoking an operator license? (1) In cases other than those relating to the failure of a licensee to renew a license, the director may suspend or revoke a license issued pursuant to this chapter for any of the following reasons:

(a) For fraud or deception in obtaining the license;

(b) For fraud or deception in reporting under RCW 18.104.050;

(c) For violating the provisions of this chapter, or of any lawful rule or regulation of the department or the department of health.

(2) The director shall immediately suspend any license issued under this chapter if the department of social and health services has determined that the holder of the license is not in compliance with the support order or a residential or visitation order issued pursuant to chapter 74.20A RCW. If the person has continued to meet all other requirements for reinstatement during the suspension, reissuance of the license shall be automatic upon the director's receipt of a release issued by the department of social and health services stating that the person is in compliance with the order.

(3) No license shall be suspended for more than six months, except that a suspension under subsection (2) of this section shall continue until the department receives a release issued by the department of social and health services stating that the person is in compliance with the order.

(4) No person whose license is revoked shall be eligible to apply for a license for one year from the effective date of the final order of revocation.

[Statutory Authority: Chapter 18.104 RCW and RCW 43.21A.080. 98-08-031 (Order 97-08), § 173-162-025, filed 3/23/98, effective 4/23/98.]

WAC 173-162-030 How are the words and phrases used in this chapter? (1) "Abandoned well" means a well that is unused, unmaintained, or is in such disrepair as to be unusable.

(2) "Access port" is a 1/2- to 2-inch tapped hole or tube equipped with a screw cap, which provides access to the inner casing, for measurement of the depth to water surface. An access port also means a removable wellcap.

(3) "Annular space" is the space between the surface or outer casing and the inner casing, or the space between the wall of the drilled hole and the casing.

(4) "Aquifer" is a geologic formation, group of formations, or part of a formation capable of yielding a significant amount of ground water to wells or springs.

(5) "Artesian well" is a well tapping an aquifer bounded above and below by confining or impermeable rock or soil layers, or rock or soil layers of distinctly lower permeability than the aquifer itself. The water will rise in the well above the point of initial penetration (above the bottom of the confining or impermeable layer overlying the aquifer). This term includes both flowing and nonflowing wells.

(6) "Artificial gravel pack" is a mixture of gravel or sand placed in the annular space around the liner, perforated pipe, or well screen. A gravel pack is used to reduce the movement

of finer material into the well and provide lateral support to the screen in unstable formations.

(7) "Artificial recharge" is the addition of water to an aquifer by activities of man, such as irrigation or induced infiltration from streams, or injection through wells, trenches, pits, and ponds.

(8) "Bentonite" is a mixture of swelling clay minerals, predominantly sodium montmorillonite.

(9) "Capped well" is a well that is not in use and has a watertight seal or cap installed on top of the casing.

(10) "Casing" is a pipe, generally made of metal or plastic, which is installed in the bore hole to maintain the opening.

(11) "Consolidated formation" means any geologic formation in which the earth materials have become firm and cohesive through natural rock forming processes. Such rocks commonly found in Washington include basalt, granite, sandstone, shale, conglomerate, and limestone. An uncased bore hole will normally remain open in these formations.

(12) "Constructing a well" or "construct a well" means:

(a) Boring, digging, drilling, or excavating a well;

(b) Installing casing, sheeting, lining, or well screens, in a well; or

(c) Drilling a geotechnical soil boring.

"Constructing a well" or "construct a well" includes the alteration of an existing well.

(13) "Contamination" has the meaning provided in RCW 90.48.020.

(14) "Continuing education unit" is one credit approved by the department for time spent participating in training or instruction in subject areas approved by the department.

(15) "Curbing" is a liner or pipe made of concrete, precast tile or steel installed in dug wells to provide a annular space between the well bore and the liner or pipe for sealing.

(16) "Decommissioning" means to fill or plug a well so that it will not produce water, serve as a channel for movement of water or pollution, or allow the entry of pollutants into the well or aquifers.

(17) "Department" means the department of ecology.

(18) "Dewatering well" means a cased or lined excavation or boring that is intended to withdraw or divert ground water for the purpose of facilitating construction, stabilizing a land slide, or protecting an aquifer.

(19) "Director" means director of the department of ecology.

(20) "Disinfection" or "disinfecting" is the use of chlorine, or other disinfecting agent or process approved by the department, in sufficient concentration and contact time adequate to inactivate coliform or other indicator organisms.

(21) "Domestic water supply" is any water supply which serves a family residence(s).

(22) "Draw down" is the measured difference between the static ground water level and the ground water level induced by pumping.

(23) "Drilled well" is a well in which the hole is usually excavated by mechanical means such as rotary, cable tool, or auger drilling equipment.

(24) "Driven well" is a well constructed by joining a "drive point" to a length of pipe, then driving the assembly into the ground.

(25) "Dug well" is a well generally excavated with hand tools or by mechanical methods. The side walls may be supported by material other than standard weight steel casing.

(26) "Filter pack" means clean, well rounded, smooth, uniform, sand or gravel, which is placed in the annulus of the well between the bore hole wall and the liner, perforated pipe, or well screen to prevent formation material from entering the well.

(27) "Formation" means an assemblage of earth materials grouped together into a unit that is convenient for description or mapping.

(28) "Geotechnical information" means subsurface engineering properties used for the purpose of designing structures such as bridges, buildings, highways, pipelines, or for assessing slope stability.

(29) "Geotechnical soil boring" or "boring" means an uncased well drilled for the purpose of obtaining soil samples to ascertain structural properties of the subsurface. Geotechnical soil boring includes auger borings, rotary borings, cone penetrometer probes and vane shear probes, or any other uncased ground penetration for geotechnical information.

(30) "Ground water" means and includes ground waters as defined in RCW 90.44.035.

(31) "Grout" is a fluid mixture of cement, bentonite, and water used to seal the annular space around or between well casings, or to decommission wells.

(32) "Impermeable" is a descriptive term for earth materials which have a texture or structure that does not permit fluids to perceptibly move into or through its pores or interstices.

(33) "Instrumentation well" means a well in which pneumatic or electric geotechnical or hydrological instrumentation is permanently or periodically installed to measure or monitor subsurface strength and movement. Instrumentation well includes bore hole extensometers, slope indicators, pneumatic or electric pore pressure transducers, and load cells.

(34) "Liner" means any device inserted into a larger casing, screen, or bore hole as a means of maintaining the structural integrity of the well.

(35) "Lysimeter" means a well used to withdraw soil water or pore samples from subsurface soil or rock above the water table for chemical, physical, or biological testing.

(36) "Monitoring well" means a well designed to obtain a representative ground water sample or designed to measure the water level elevations in either clean or contaminated water or soil.

(37) "Nested well" means the installation of more than one cased resource protection well in one bore hole. This does not preclude casing reductions.

(38) "Observation well" means a well designed to measure the depth to the water or water level elevation in either clean or contaminated water or soil.

(39) "Operator" means a person who:

(a) Is employed by a well contractor;

(b) Is licensed under this chapter; or

(c) Who controls, supervises, or oversees the construction of a well or who operates well construction equipment.

(40) "Permeability" is a measure of the ease of which liquids or gas move through a porous material.

(a) For water, this is usually expressed in units of centimeters per second or feet per day. Hydraulic conductivity is a term for water permeability.

(b) Soils and synthetic liners with a water permeability of 1 x 10[-7] cm/sec or less may be considered impermeable.

(41) "Piezometer" means a well designed to measure water level elevation at a specific depth beneath the water table.

(42) "Pollution" has the meaning provided in RCW 90.48.020.

(43) "Pressure grouting" is a method of forcing grout into specific portions of a well for sealing purposes.

(44) "PTFE" means polytetrafluoroethylene casing materials such as teflon. The use of the term teflon is not an endorsement for any specific PTFE product.

(45) "Public water supply" is any water supply intended or used for human consumption or other domestic uses, including source, treatment, storage, transmission and distribution facilities where water is furnished to any community, collection or number of individuals, available to the public for human consumption or domestic use, excluding water supplies serving one single-family residence and a system with four or fewer connections all of which serve residences on the same farm.

(46) "PVC" means polyvinyl chloride a type of thermoplastic casing.

(47) "Remediation well" means a well used to withdraw ground water or inject water, air (for air sparging), or other solutions into the subsurface for the purpose of remediating, cleaning up, or controlling potential or actual ground water contamination.

(48) "Resource protection well" means a cased boring used to determine the existence or migration of pollutants within an underground formation. Resource protection wells include monitoring wells, observation wells, piezometers, spill response wells, vapor extraction wells, and instrumentation wells.

(49) "Resource protection well contractor" means any person, firm, partnership, copartnership, corporation, association, or other entity, licensed and bonded under chapter 18.27 RCW, engaged in the business of constructing resource protection wells or geotechnical soil borings.

(50) "Spill response well" means a well used to capture or recover any spilled or leaked fluid which has the potential to, or has contaminated the ground water.

(51) "Static water level" is the vertical distance from the surface of the ground to the water level in a well when the water level is not affected by withdrawal of ground water.

(52) "Temporary surface casing" is a length of casing (at least four inches larger in diameter than the nominal size of the permanent casing) which is temporarily installed during well construction to maintain the annular space.

(53) "Test well" is a well (either cased or uncased), constructed to determine the quantity of water available for beneficial uses, identifying underlying rock formations (lithology), and to locate optimum zones to be screened or perforated. If a test well is constructed with the intent to withdraw water for beneficial use, it must be constructed in accordance with the minimum standards for water supply wells, otherwise they shall be constructed in accordance with the minimum standards for resources protection wells. A water right permit, preliminary permit, or temporary permit shall be obtained prior to constructing a test well unless the anticipated use of water is exempt as provided in RCW 90.44.050. A "test well" is a type of "water well."

(54) "Tremie tube" is a small diameter pipe used to place grout, filter pack material, or other well construction materials in a well.

(55) "Turbidity" means the clarity of water expressed as nephelometric turbidity units (NTU) and measured with a calibrated turbidimeter.

(56) "Unconsolidated formation" means any naturally occurring, loosely cemented or poorly consolidated earth material including such materials as uncompacted gravel, sand, silt and clay. Alluvium, soil, and overburden are terms frequently used to describe such formations.

(57) "Vapor extraction well" means a well used to withdraw gases or vapors from soil, rock, landfill, or ground water or allow air or vapor to enter subsurface soil or rock for the purpose of remediating soil and/or ground water contamination.

(58) "Water well" means any excavation that is constructed when the intended use of the well is for the location, diversion, artificial recharge, observation, monitoring, dewatering or withdrawal of ground water.

(59) "Water well contractor" means any person, firm, partnership, copartnership, corporation, association, or other entity, licensed and bonded under chapter 18.27 RCW, engaged in the business of constructing water wells.

(60) "Well alterations" include(s), deepening, hydrofracturing or other operations intended to increase well yields or change the characteristics of the well. Well alterations does not include general maintenance, cleaning, sanitation, and pump replacement.

(61) "Well completion" means that construction has progressed to a point at which the drilling equipment has been removed from the site, or a point at which the well can be put to its intended use.

(62) "Well contractor" means a resource protection well contractor and a water well contractor.

(63) "Well driller(s)" or "driller(s)" is synonymous with "operator(s)."

(64) "Well" means water wells, resources protection wells, instrumentation wells, dewatering wells, and geotechnical soil borings. Well does not mean an excavation made for the purpose of obtaining or prospecting for oil, natural gas, geothermal resources, minerals, or products of mining, or quarrying, or for inserting media to repressure oil or natural gas bearing formations, or for storing petroleum, natural gas, or other products.

[Statutory Authority: Chapter 18.104 RCW and RCW 43.21A.080. 98-08-031 (Order 97-08), § 173-162-030, filed 3/23/98, effective 4/23/98. Statutory Authority: Chapter 18.104 RCW. 88-08-070 (Order 88-58), § 173-162-030, filed 4/6/88; Order DE 73-10, § 173-162-030, filed 6/29/73.]

Reviser's note: RCW 34.05.395 requires the use of underlining and deletion marks to indicate amendments to existing rules, and deems ineffectual changes not filed by the agency in this manner. The bracketed material in the above section does not appear to conform to the statutory requirement.

WAC 173-162-040 How do I comply with licensing requirements? (1) A water well operator license is required

for all operators engaged in constructing or decommissioning water wells.

(2) A water well operator training license is required for any trainee engaged in constructing or decommissioning water wells under the training program provisions of this chapter.

(3) A resource protection well operator license is required for all operators engaged in constructing or decommissioning resource protection wells and geotechnical soil borings.

(4) A resource protection well operator training license is required for any trainee engaged in constructing or decommissioning resource protection wells and geotechnical soil borings under the training program provisions of this chapter.

(5) General contractors, engineering firms, designers, consulting firms, or other entities need not have a licensed well operator in its employ: *Provided,* That all well construction and decommissioning associated with their various projects and/or contracts is conducted by a licensed well operator licensed under the provisions of this chapter except as provided in WAC 173-162-050.

[Statutory Authority: Chapter 18.104 RCW and RCW 43.21A.080. 98-08-031 (Order 97-08), § 173-162-040, filed 3/23/98, effective 4/23/98. Statutory Authority: Chapter 18.104 RCW. 88-08-070 (Order 88-58), § 173-162-040, filed 4/6/88; Order DE 73-10, § 173-162-040, filed 6/29/73.]

WAC 173-162-050 Who is exempt? (1) No license under this chapter shall be required of:

(a) Any individual who personally constructs a well on land which is owned or leased by the individual, or in which the individual has a beneficial interest as a contract purchaser and is used by the individual for farm or single-family residential use only. Provided, the individual shall construct not more than one well every two years.

(b) An individual, except trainees, who performs labor or services for a well contractor in connection with the construction or decommissioning of a well at the direction and under the direct supervision and control of a licensed operator who is present at the construction site.

(c) A person licensed under the provisions of chapter 18.08 or 18.43 RCW if in the performance of duties covered by those licenses.

(2) An individual who constructs or decommissions a well without a license under this subsection shall comply with all other requirements of this chapter and rules adopted by the department. Those requirements include, but are not limited to:

(a) Well construction and decommissioning standards;

(b) Payment of well construction fees; and

(c) Notification of well construction required by RCW 18.104.048.

[Statutory Authority: Chapter 18.104 RCW and RCW 43.21A.080. 98-08-031 (Order 97-08), § 173-162-050, filed 3/23/98, effective 4/23/98. Statutory Authority: Chapter 18.104 RCW. 88-08-070 (Order 88-58), § 173-162-050, filed 4/6/88; Order DE 73-10, § 173-162-050, filed 6/29/73.]

WAC 173-162-055 What types of operator licenses are available? Five types of drilling licenses are available:

(1) Water well operator training license.

(2) Resource protection well operator training license.

(3) Resource protection well operator license.

(4) Water well operator license.

(5) Conditional licenses for water or resource protection well drilling.

[Statutory Authority: Chapter 18.104 RCW and RCW 43.21A.080. 98-08-031 (Order 97-08), § 173-162-055, filed 3/23/98, effective 4/23/98.]

WAC 173-162-060 How do you qualify for each license? (1) **Training licenses.**

(a) You are qualified to receive either a water or a resource protection training license if you:

(i) Submit a completed application to the department on forms provided by the department and pay the department a twenty-five dollar application fee; and

(ii) Have completed at least six hundred hours of drilling experience working under the direct supervision of a licensed operator who has held a Washington state water and/or resource protection well drilling license for at least three years; and

(iii) Have obtained six continuing education units as approved by the department; and

(iv) Pass a written examination as provided for in RCW 18.104.080; and

(v) Pass an on-site examination by the department; and

(vi) Present a statement by a person or persons licensed under this chapter, other than a trainee, signed under penalty of perjury as provided in RCW 9A.72.085, verifying that:

(A) The applicant has acquired a minimum of six hundred hours of field experience required under this chapter; and

(B) The operator has assumed liability for any and all well construction activities of the applicant while the applicant was gaining his/her six hundred hours of field experience. The operator shall not be subject to any penalties or orders that may be issued for wells constructed by the applicant that were not the responsibility of the operator to have direct supervision and control over; and

(C) A licensed operator, except a trainee, who will sponsor the trainee, has been identified on the signed statement. The licensed operator who will be sponsoring the trainee, shall assume liability for any and all well construction activities of the trainee accomplished under the operator's control during the period of the trainee's license; and

(vii) In obtaining a statement from a well operator(s) under (a)(vi) of this subsection, an applicant who has gained drilling experience under more than one operator shall submit a statement from each operator. It is not necessary to accumulate all qualifying experience under one operator. Field experience for which a statement of verification and liability cannot be obtained, shall not be used as qualifying experience under this section.

All statements shall be entered on forms provided by the department.

(b) **Terms and conditions of a training license.**

(i) A person with either a resource protection or a water well training license may construct only those types of wells for which they are licensed without being under the direct supervision of a licensed operator provided:

(A) A licensed operator is available by radio, telephone, or other means of communication; and

(B) The licensed operator can reach the drill site within one hour.

(ii) A trainee shall maintain a daily drilling log identifying all work accomplished that day. The log shall remain in the possession of the trainee at all times and shall be reviewed and initialed daily by the responsible licensed operator. The drilling log shall be available for review by department and county officials whose county has received delegated authority as provided in RCW 18.104.043.

(iii) The work documented and initialed in the drilling log may be used in your application for a license under the training program completed, licensing category of this chapter.

(iv) All verifiable work performed by a trainee under the control of a licensed operator may be carried over to subsequent operator(s) who assume liability for the trainee.

(v) A trainee may apply and qualify for only one type (resource protection or water well drilling) of training license at a time.

(2) **Water well or resource protection well operator licenses.**

A person shall be qualified to receive either a water or resource protection well operator license if you meet the requirements of one of the following categories:

(a) **New applicant category.**

(i) **Applicants who have never held a well operator license and whose qualifying drilling experience was started after the effective date of this regulation qualify if they:**

(A) Submit a completed application to the department on forms provided by the department and pay the department a twenty-five dollar application fee; and

(B) Submit proof that they have acquired five thousand four hundred hours of drilling experience under the direct supervision of a licensed well operator; and

(C) Submit proof that they have obtained thirty-two continuing education units; and

(D) Pass a written examination as provided for in RCW 18.104.080.

The department shall evaluate and approve all qualifying experience and educational training. If your qualifying drilling experience under (a)(i)(B) of this subsection is from another state, the department may require an on-site examination.

(ii) **Applicants who have never held a well operator license and who have obtained at least twelve months of qualifying drilling experience before the effective date of this regulation qualify to receive a license if they:**

(A) Submit a complete application to the department; and

(B) Pay a twenty-five dollar fee; and

(C) Pass a written exam; and

(D) Show proof that they have completed a total of twenty-four months of drilling experience under a licensed operator. Your proof must show that you started working towards a drilling license prior to the effective date of this regulation, and that you have been diligently and continuously working towards obtaining a drilling license since you started. Proof shall consist of tax records, pay statements, or other documentation showing that you were under the supervision of a licensed operator.

(E) **The department shall evaluate and approve all qualifying drilling experience. If your drilling experience under (a)(ii)(D) of this subsection is from another state, the department may require an on-site examination.**

(iii) Individuals who have been working towards obtaining a drilling license but have acquired **less than twelve months** of qualifying drilling experience prior to the effective date of this chapter, may apply their education and experience towards the requirements of a training license.

(b) **Training program completed category.**

Applicants who have held a valid training license will be qualified to receive an operator license if they:

(i) Submit a completed application to the department on forms provided by the department and pay the department a twenty-five dollar application fee; and

(ii) Submit proof that they have worked as a licensed trainee under the provisions of this chapter for at least three thousand six hundred hours; and

(iii) Have obtained fourteen continuing education units while working under the training program.

(c) **Licensed experience category.**

(i) **Applicants who have never held an operator license in Washington state qualify if they:**

(A) Submit a completed application to the department on forms provided by the department and pay the department a twenty-five dollar application fee; and

(B) Hold a valid well operator license, or equivalent, in another state and can show proof that the license has been held for a period of at least three years. The department shall evaluate and approve all experience acquired by out-of-state licensed operators; and

(C) Have obtained thirty-two continuing educational units as approved by the department; and

(D) Pass a written examination as provided for in RCW 18.104.080; and

(E) Passed an on-site examination by the department. The on-site examination may be waived by the department.

(F) Proof of licensing under (c)(i)(B) of this subsection shall be submitted with the application for license. Proof of drilling experience may include drilling logs, federal or state tax records; employment records; or other records acceptable to the department.

(ii) **Individuals, other than trainees, whose Washington operator license has been suspended, revoked, or whose license has expired may apply for a new license. These individuals qualify to receive a license if:**

(A) The terms of the order of suspension or revocation have been met; and

(B) They submit a completed application to the department on forms provided by the department and pay the department a twenty-five dollar application fee; and

(C) They have obtained seven continuing educational units for each year or portion of a year the license has been revoked, suspended, or expired; and

(D) They pass a written examination as provided for in RCW 18.104.080; and

(E) They pass an on-site examination by the department.

(F) The written and/or on-site examination(s) under (c)(ii)(D) and (E) of this subsection may be waived by the department.

(3) Individuals who received an operator license for either water well or resource protection well drilling **after** the effective date of these regulations are qualified to receive the other license if they:

(a) Currently hold a valid well operator license under one of the categories in subsection (2) of this section. The license must have been issued by the department after the effective date of these regulations; and

(b) Submit a completed application to the department on forms provided by the department and pay a twenty-five dollar application fee; and

(c) Pass a written examination; and

(d) Pass an on-site examination if their field experience was gained in another state. The department may waive the on-site examination.

(e) Submit proof of at least six hundred hours of additional well drilling experience for the other type of license you wish to obtain. **EXAMPLE** - You currently hold a water well operator license that was issued by the department after the effective date of these regulations. You also wish to be licensed to construct resource protection wells. You will qualify to receive the resource protection operator license by making an application, paying the fee, and showing proof of six hundred hours of resource protection well drilling experience, passing a written exam, and passing an on-site exam if your drilling experience was gained in another state. Proof of experience will consist of drilling reports showing you were the operator of record on at least fifteen resource protection wells, or other documentation showing experience approved by the department.

(4) **Conditional license.**

(a) A conditional license may be issued to a former licensed operator for the sole purpose of authorizing the well operator to comply with an order to correct a problem with a well. The terms of the license shall detail the extent and limitations placed on the well operator. This may include limitations of work to be completed on a specific well, license expiration, and any other limitation set by the department.

(b) A conditional license cannot be issued to a person who has never held an operator license issued under the provisions of this chapter.

[Statutory Authority: Chapter 18.104 RCW and RCW 43.21A.080. 98-08-031 (Order 97-08), § 173-162-060, filed 3/23/98, effective 4/23/98. Statutory Authority: Chapter 18.104 RCW. 88-08-070 (Order 88-58), § 173-162-060, filed 4/6/88; Order DE 73-10, § 173-162-060, filed 6/29/73.]

WAC 173-162-070 What application fees are required? Application fees are twenty-five dollars for each operator or training license.

[Statutory Authority: Chapter 18.104 RCW and RCW 43.21A.080. 98-08-031 (Order 97-08), § 173-162-070, filed 3/23/98, effective 4/23/98; Order DE 73-10, § 173-162-070, filed 6/29/73.]

WAC 173-162-075 How often do I need to renew my license? (1) Licenses issued under this chapter, except a training license, shall be renewed every two years.

(2) A training license shall be valid for a period of two years from the time it was originally issued. A training license cannot be renewed. However, a one-time extension may be granted upon show of good cause by the trainee. The limit of the extension shall be no longer than twenty-four months and will be evaluated on a case-by-case basis. A twenty-five dollar fee will be charged for the extension.

[Statutory Authority: Chapter 18.104 RCW and RCW 43.21A.080. 98-08-031 (Order 97-08), § 173-162-075, filed 3/23/98, effective 4/23/98.]

WAC 173-162-080 What are the conditions and cost of renewing a drilling license? (1) Between the 1993 legislation, Laws of 1997, chapter 387, and the adoption of these regulations implementing the legislation, the well operator licenses issued and renewed by the department met the requirements of the 1993 legislation and may be renewed for either a water well or resource protection well operator license or both as provided in subsection (2) of this section.

(2) A holder of a valid license may renew the license if they:

(a) Submit a completed application on forms provided by the department; and

(b) Except as provided in subsection (3) of this section, show proof that they successfully completed fourteen continuing education units during the past twenty-four months of the license term; and

(c) Pay a twenty-dollar renewal fee for each license they wish to renew.

(3) If you currently hold a valid operator license that was issued **prior** to the effective date of this regulation, you may renew that license and receive a water well operator license and/or a resource protection well operator license without meeting the requirements for continuing education until you apply for license renewal in the year 2000.

(4) If you fail to submit a completed application for renewal, the license shall expire at the end of its effective term. A complete application includes the submission of the renewal fee and proof of completion of the required continuing education.

(5) If your license has expired, you must apply for a new license as provided in this chapter.

(6) The department may refuse to renew a license if the license is currently suspended or revoked, or the licensee has not complied with an order issued by the department or has not paid a penalty imposed under RCW 18.104.155, unless the order or penalty is under appeal.

(7) Operators shall not construct or decommission a well after their license has expired.

[Statutory Authority: Chapter 18.104 RCW and RCW 43.21A.080. 98-08-031 (Order 97-08), § 173-162-080, filed 3/23/98, effective 4/23/98; Order DE 73-10, § 173-162-080, filed 6/29/73.]

WAC 173-162-085 Continuing education. Ecology, with the assistance of the technical advisory group created in RCW 18.104.190, shall develop and administer a program for continuing education for the purpose of ensuring continued professional growth and competency of licensed operators.

(1) **What is continuing education?**

Continuing education is your opportunity to gain additional knowledge into subjects that directly relate to the drill-

ing profession. It is designed to enhance your drilling skills, keep you informed on technological advances, and keep you informed on current state and local regulations. The ultimate goal is to ensure the highest quality of professional drilling. Continuing education is required of every person applying for an operator license and for every driller renewing an operator license.

(2) **How do I obtain the required continuing education credit?**

(a) Continuing education may be obtained from a number of sources. The department as well as other state and local agencies may provide continuing education classes. Additionally, private organizations or individuals may also present approved classes for credit.

(b) The primary ways to receive credits will be:

(i) Attend and/or successfully complete classes, courses, workshops, or seminars that have been preapproved for credit; and/or

(ii) Have the class, course, workshop, or seminar you plan on attending or have attended evaluated by the technical advisory group and approved by the department for credit; and/or

(iii) Completion of correspondence courses will be considered and evaluated on a case-by-case basis.

(3) **How will credit be assigned?**

(a) The technical advisory group shall evaluate all courses, classes, workshops, or seminars and recommend assignment of continuing education credits. Their evaluation shall be reviewed by the department for approval.

(b) The following criteria shall be utilized to evaluate and assign credit:

(i) Course agenda and how well the subject relates to the business, technical, and/or regulatory aspects of well drilling and to the knowledge, skills, and abilities required in the well drilling profession.

(ii) Subject(s) difficulty.

(iii) Instructor qualifications.

(iv) Student course evaluations may be utilized to assign credit to courses.

(c) Course sponsors may have their courses preapproved by submitting a request to the department on forms provided by the department.

(d) Individuals planning on attending or who have attended classes, courses, workshops, or seminars that were not preapproved for credit must request a course evaluation and credit approval through the department on forms provided by the department.

(e) All courses, classes, workshops, or seminars must be open to anyone who wants to attend. This does not preclude a provider from imposing reasonable requirements for attendees such as fees and providing their own safety equipment.

(4) **What types of general topics, workshops or seminars will be accepted?**

(a) General subject areas include: Occupational health and safety; business and office skills; interpersonal skills; technical aspects associated with drilling; and other subject areas approved by the department.

(b) Workshops, seminars, classes, or courses conducted by professional associations, governmental agencies, private businesses, and individuals, may be accepted, provided the subject(s) meets the provisions of this chapter.

(5) **How do I get credit for participating in a continuing education program?**

(a) A person is qualified to receive continuing education credit upon showing proof of attendance at an approved class, course, workshop, or seminar.

(b) Proof includes: Certificates of completion; transcripts; attendance rosters; diplomas; or other documents approved by the department.

(6) **General information on continuing education:**

(a) Credits received during a renewal period that are in excess of the requirements cannot be used for any succeeding years. EXAMPLE: A driller earning 20 continuing educational credits during their two-year renewal period cannot apply the six credits towards a future renewal.

(b) Credits shall not be assigned to courses, workshops, classes, or seminars attended prior to July 1, 1993.

(c) It is the operator's/trainee's responsibility to track and maintain records of their continuing education credits.

(d) Continuing education units will **not be required to renew** an operator license prior to January 1, 2000.

(e) A person licensed for both water well and a resource protection well construction need only obtain fourteen continuing educational units per renewal period.

(f) A person applying to receive both a water well and resource protection well operator license need only meet the continuing education unit requirements for one license.

[Statutory Authority: Chapter 18.104 RCW and RCW 43.21A.080. 98-08-031 (Order 97-08), § 173-162-085, filed 3/23/98, effective 4/23/98.]

WAC 173-162-090 Examinations—Notification of examinations. Upon receipt of a properly completed application, the department shall notify the applicant of the date, time and place of the next scheduled examination. All incomplete application forms will be returned for completion. The applicant should notify the department if the examination schedule cannot be met and the reasons therefor.

[Order DE 73-10, § 173-162-090, filed 6/29/73.]

WAC 173-162-095 What should I know about the written and on-site examinations? The written and on-site examinations for licenses issued under this chapter are prepared, administered, and evaluated by the department.

(1) **What subjects will the written exam cover?** The examinations are prepared to test the knowledge and understanding of the following subjects:

(a) Washington state ground water laws as they relate to constructing and decommissioning wells;

(b) Sanitary standards for constructing wells;

(c) Types of well construction and decommissioning;

(d) Drilling techniques, tools and equipment;

(e) Geology (including soil and rock description) as it relates to well construction;

(f) Rules and regulations of the department relating to constructing a well, test pumping, and equipment maintenance;

(g) Preparation of intent forms, well reports, and requests for variances;

(h) Township and range location system as it relates to location of wells;

(i) Basic ground water hydraulics as it relates to well construction and protection of the resource; and

(j) Rules and regulations of the Washington state department of health relating to source approval and source protection of public drinking water systems.

(2) **What subjects will the on-site test cover?**

The on-site examination shall test the applicants field skills and knowledge in the following areas:

(a) Safety.

(b) General knowledge of equipment operation.

(c) Equipment maintenance.

(d) Drilling knowledge.

(e) Well development.

(f) Implementation of the construction standards under chapter 173-160 WAC.

(3) **When and where are the written examinations given?**

(a) Examinations will be held at such a time and place as may be determined by the department, but not later than thirty days after the department accepts the completed application package consisting of:

(i) A completed application form with appropriate fee; and

(ii) Proof of required continuing education; and

(iii) Proof of required drilling experience.

(b) Upon receipt of a completed application package, the department shall notify you of the date, time and place of the next scheduled written examination. You shall notify the department if you cannot meet the examination schedule. Your notice shall include the reason(s) why you cannot meet the schedule.

(c) If your application package is received after an examination has been scheduled and there is either insufficient time for the department to notify you of the time and place of the examination or you are unable to take the examination at the scheduled time, the thirty-day period will start from the scheduled examination date.

(4) **When and where are the on-site examinations given?**

(a) You must pass the written exam before you can take the on-site exam.

(b) If you are required to take an on-site examination you will receive an authorization form along with the confirmation of your written test results.

(c) Following the receipt of your test results, you will be responsible to select an authorized on-site advisor. The advisor will assist you and the department with coordinating the on-site examination. A list of the on-site advisors will be included with your test results.

(d) You, the advisor, and the department will schedule a mutually agreed upon time and place for the on-site exam. RCW 18.104.080 requires that examinations be held within thirty days after a completed application is filed with the department. If this is not practical, you must notify the department and request an extension to the testing schedule. Your request shall include:

(i) The reason(s) why you cannot meet the schedule.

(ii) Acceptable reasons for rescheduling exams may include: Weather; availability of advisors or department staff; or health problems.

(e) Failure to complete the on-site exam within ninety days may result in having to reapply and reschedule another on-site exam.

(f) You and the on-site advisor will arrange for all the equipment, materials, and location for the on-site examination.

(g) The department must be present during the on-site examination.

(5) **When will I be notified of the results of my written and on-site examination?**

The department shall notify you of your test results within ten days after each examination.

(6) **If I fail an exam, may I take a retest?**

(a) If you fail the written or on-site exam, you shall not be entitled to take the examination, or any parts of the examination for a period of thirty days from the date of your original examination.

(b) If you failed to pass the written exam, you are considered a new applicant in all respects.

(c) If you fail the on-site exam, you will be required to arrange a retest after a thirty-day waiting period. You will not be required to retake the written exam.

[Statutory Authority: Chapter 18.104 RCW and RCW 43.21A.080. 98-08-031 (Order 97-08), § 173-162-095, filed 3/23/98, effective 4/23/98.]

WAC 173-162-100 Examinations—Type of examinations. The examinations shall be prepared, administered and evaluated by the department. They shall be broken down into sections including a basic general category and specialist categories including but not necessarily limited to cable tool, rotary, driven and dug well construction technology. The examination shall be prepared to test the knowledge and understanding of the following subjects:

(1) Washington ground water laws as they relate to well construction;

(2) Sanitary standards for water well drilling and construction of water wells;

(3) Types of well construction;

(4) Drilling tools and equipment;

(5) Underground geology as it relates to well construction;

(6) Rules and regulations of the department and the department of social and health services relating to well construction;

(7) Preparation of well reports;

(8) Township and range location system as it relates to location of wells; and

(9) Basic ground water hydraulics as it relates to well construction.

[Statutory Authority: Chapter 18.104 RCW. 88-08-070 (Order 88-58), § 173-162-100, filed 4/6/88; Order DE 73-10, § 173-162-100, filed 6/29/73.]

WAC 173-162-120 Examinations—Notification of examination results. The department shall make a determination of the applicant's qualifications for a license within ten

days after the examination and notify said applicant of the results within ten days after such determination.

[Order DE 73-10, § 173-162-120, filed 6/29/73.]

WAC 173-162-130 Licenses—General. It is the intent of the department in its implementation of the licensing phase of the Washington Water Well Construction Act to effect a smooth transition of this requirement into the well construction industry without causing undue hardship on individuals and/or businesses whose livelihood is dependent upon continuing work in this field.

[Statutory Authority: Chapter 18.104 RCW. 88-08-070 (Order 88-58), § 173-162-130, filed 4/6/88; Order DE 73-10, § 173-162-130, filed 6/29/73.]

WAC 173-162-140 What are the requirements to become an on-site testing advisor? (1) To qualify to be an on-site testing advisor you must:

(a) Be a Washington state licensed operator in good standing; and

(b) Have held that Washington state operator license for a period of five years; and

(c) Not have been issued an order or penalty under chapter 18.104 RCW, except for failure to renew a license; and

(d) Pass a written evaluation of your drilling expertise and an oral interview provided by the department; and

(e) Enter a written agreement with the department which will describe the scope, duties, and responsibilities of the on-site testing advisor.

(2) All agreements will be evaluated on an annual basis and renewed upon approval of the department.

[Statutory Authority: Chapter 18.104 RCW and RCW 43.21A.080. 98-08-031 (Order 97-08), § 173-162-140, filed 3/23/98, effective 4/23/98. Statutory Authority: Chapter 18.104 RCW. 88-08-070 (Order 88-58), § 173-162-140, filed 4/6/88; Order DE 73-10, § 173-162-140, filed 6/29/73.]

WAC 173-162-190 What are the responsibilities of well contractors and their agents? (1) The well contractor shall be responsible for designating an agent to represent its dealing with the department.

(2) The agent must be a Washington state licensed operator other than a trainee.

(3) The agent shall notify the department of all licensed operators and trainees who are working for the well contractor.

(4) Notification shall be made within ninety days of enactment of this regulation.

(5) After the initial notification, the agent shall notify the department of all terminations and new hires within thirty days.

(6) The well contractor shall notify the department within thirty days of making any change of agent.

[Statutory Authority: Chapter 18.104 RCW and RCW 43.21A.080. 98-08-031 (Order 97-08), § 173-162-190, filed 3/23/98, effective 4/23/98. Statutory Authority: Chapter 18.104 RCW. 88-08-070 (Order 88-58), § 173-162-190, filed 4/6/88; Order DE 73-10, § 173-162-190, filed 6/29/73.]

WAC 173-162-200 What are the department of ecology's enforcement options? In enforcement of this chapter, the department of ecology may impose sanctions that are appropriate under authorities vested in it, including issuance of regulatory orders under RCW 43.27A.190, civil penalties under RCW 90.03.600 and 18.104.155, and criminal penalties under RCW 18.104.160.

[Statutory Authority: Chapter 18.104 RCW and RCW 43.21A.080. 98-08-031 (Order 97-08), § 173-162-200, filed 3/23/98, effective 4/23/98. Statutory Authority: Chapter 18.104 RCW. 88-08-070 (Order 88-58), § 173-162-200, filed 4/6/88.]

WAC 173-162-210 Can I appeal enforcement actions? Yes, you can appeal the department of ecology's decision to the pollution control hearings board. All final written decisions of the department of ecology pertaining to permits, regulatory orders, and related decisions made under this chapter shall be subject to review by the pollution control hearings board in accordance with chapter 43.21B RCW.

[Statutory Authority: Chapter 18.104 RCW and RCW 43.21A.080. 98-08-031 (Order 97-08), § 173-162-210, filed 3/23/98, effective 4/23/98. Statutory Authority: Chapter 18.104 RCW. 88-08-070 (Order 88-58), § 173-162-210, filed 4/6/88.]

WAC 173-162-220 Regulation review. The department of ecology shall initiate a review of the rules established in this chapter whenever new information, changing conditions, or statutory modifications make it necessary to consider revisions.

[Statutory Authority: Chapter 18.104 RCW. 88-08-070 (Order 88-58), § 173-162-220, filed 4/6/88.]

Chapter 173-166 WAC
EMERGENCY DROUGHT RELIEF

WAC

173-166-010	Purpose.
173-166-020	Authority.
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173-166-040	General eligibility rule.
173-166-050	Forecast of drought conditions.
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173-166-080	Temporary transfers of water rights.
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173-166-120	Requests for drought relief—Contacts—Applications.
173-166-130	Appeals.
173-166-140	Regulation review.

WAC 173-166-010 Purpose. The legislature in 1989 gave permanent drought relief authority to the department of ecology and enabled ecology to issue orders declaring drought emergencies. Chapter 171, Laws of 1989 amends chapter 43.83B RCW (Water supply facilities).

(1) Chapter 171, Laws of 1989 authorizes the Washington state department of ecology (ecology) to assist in alleviating future drought conditions throughout the state, and sets forth the criteria and procedures for implementing the 1989 drought relief legislation.

(2) Ecology has authority under chapter 171, Laws of 1989 to:

(a) Issue emergency permits to withdraw public waters as an alternate source of water supply.

(b) Approve water right transfers between willing parties.

(c) Provide funding assistance for eligible drought projects and measures.

[Statutory Authority: RCW 43.83B.420. 91-03-081 (Order 90-53), § 173-166-010, filed 1/17/91, effective 2/17/91. Statutory Authority: 1977 c 339 § 75. 78-04-019 (Order 78-3), § 173-166-010, filed 3/10/78.]

WAC 173-166-020 Authority. This regulation is promulgated by the department of ecology under authorities and procedures provided in chapter 171, Laws of 1989 after notification as provided in chapter 34.05 RCW.

[Statutory Authority: RCW 43.83B.420. 91-03-081 (Order 90-53), § 173-166-020, filed 1/17/91, effective 2/17/91. Statutory Authority: 1977 c 339 § 75. 78-04-019 (Order 78-3), § 173-166-020, filed 3/10/78.]

WAC 173-166-030 Definitions. As used in this chapter:

(1) "Ecology" is the department of ecology.

(2) "Drought conditions" are water supply conditions where a geographical area or a significant part of a geographical area is receiving, or is projected to receive, less than seventy-five percent of normal water supply as the result of natural conditions and the deficiency causes, or is expected to cause, undue hardship to water users within that area.

(3) "Essential minimum" for the fisheries resource is:

(a) That amount of water or flow rate established as a regulation adopted by ecology pursuant to RCW 90.22.020 or 90.54.050;

(b) That amount of water or flow placed as a proviso on a water right permit or certificate; or

(c) That amount of water or flow established on an interim basis to assure the maintenance of fisheries requirements. Such a determination will be made by ecology, in consultation with, among others, the departments of fisheries and wildlife, any concerned federal agencies and affected Indian tribes.

(4) "Executive water emergency committee (EWEC)" is a committee, chaired by the governor's office, including members of state, local, and federal agencies which reviews water supply information provided by the water supply availability committee and determines potential effects of water shortages upon the state of Washington. Affected Indian tribes will be invited to participate.

(5) "Geographical area" is an area within the state of Washington which can be described either by natural or political boundaries and which can be specifically identified in an order declaring a drought emergency. Examples of specific geographical areas include, but are not limited to:

(a) The state of Washington.

(b) Counties.

(c) Water resource inventory areas (WRIAs) as defined in chapter 173-500 WAC.

(d) Individual watersheds which constitute only a portion of a WRIA but whose boundaries can be topographically described.

(e) Ground water management areas and subareas as defined in chapter 173-100 WAC.

(f) Designated sole source aquifers.

(g) Combinations of the above areas.

(6) "Normal water supply" is:

(a) For the purpose of the determination of drought conditions, the average amount of water available to a geographical area on an annual basis, based upon evaluation of precipitation, streamflow, snowpack and other hydrological and meteorological factors.

(b) For the purpose of eligibility for drought assistance:

(i) That amount of water put to beneficial use during the irrigation season for the irrigation of one or more crops, using reasonably efficient practices, including reasonable conveyance losses, under a valid water right permit or certificate, or a supported registered water right claim; or

(ii) That amount or flow of water required for normal operations of fish hatchery or fish passage facilities. Such facilities, where required by law, must be operating under a valid water right permit or certificate, or under a supported registered water right claim; or

(iii) The median amount or flow of water that is historically required to provide normal instream habitat conditions for the existing fishery population.

(7) "Previously established activities" include:

(a) The irrigation of a specified number of acres, using reasonably efficient practices, under a valid water right permit or certificate, or a supported registered water right claim.

(b) Those fish-management activities presently employed to maintain the fisheries resource. The resource itself must neither be restored nor enhanced by drought relief actions available under the provisions of this chapter.

(c) The delivery of water by public and private entities through existing supply systems to present populations, areas, and/or facilities for purposes that are nonagricultural and nonfishery related.

(8) "Reasonably efficient practices" are those practices including, but not limited to, methods of conveyance, use, and disposal of water which are reasonable and appropriate under the circumstances to bring about water use efficiency as determined by an area-specific application of criteria identified by ecology, which may include, among others:

(a) Customary practices in the area;

(b) Reasonableness of any facilities at the time of installation;

(c) Cost of improvements and impacts of the costs of upgrading facilities on the continued use of water by an appropriator;

(d) Changes in water use practices and technology; and

(e) Impact of alternative water use practices on other water uses and the environment.

(9) "Supported registered water right claim" is a registered water right claim which includes sufficient evidence to satisfy ecology that a valid water right would be confirmed should the claim be adjudicated. Applications made for emergency drought permits, water transfers, or funding assistance under this chapter must incorporate, either by reference or inclusion, necessary information to enable ecology to make an informed determination with respect to the claim. Such information may include, but is not limited to:

(a) Documentation of continuous historical exercise of the claimed right;

(b) Historical maps depicting the historical means of irrigation and the areas covered by the claimed right;

(c) Legal documentation, including any previous court or administrative board decisions, which addresses the historical nature and extent of the claimed right;

(d) "Old-timer" testimony which addresses the historical nature and extent of the claimed right.

(10) "Water supply availability committee (WSAC)" is a committee, with a core membership consisting of ecology, the National Weather Service, the Soil Conservation Service, the U.S. Geological Survey, the U.S. Bureau of Reclamation, and other federal agencies involved in water supply forecasting, which reviews pertinent hydrological and meteorological information and assesses water supply conditions for the state of Washington.

[Statutory Authority: RCW 43.83B.420. 91-03-081 (Order 90-53), § 173-166-030, filed 1/17/91, effective 2/17/91. Statutory Authority: 1977 c 339 § 75. 78-04-019 (Order 78-3), § 173-166-030, filed 3/10/78.]

WAC 173-166-040 General eligibility rule. (1) Applications for emergency drought permits, water transfers, or funding assistance made under this chapter will be processed only for previously established activities in a geographical area or part of a geographical area declared to be suffering from drought conditions. Where required by law, such activities must be conducted under a valid water right permit, certificate, or supported registered water right claim.

(2) Applications will be processed if the water user is receiving, or is projected to receive, less than seventy-five percent of normal water supply for the previously established activity and experiencing undue hardship as a result.

(3) All permits and approvals issued under this chapter will be subject to existing rights.

(4) Water obtained through the issuance of temporary permits, water right transfers, and/or funding assistance for projects or measures must be put to beneficial use in lieu of water which is unavailable because of drought conditions.

(5) All permits and approvals issued under this chapter will be of a temporary nature and will contain an expiration date.

[Statutory Authority: RCW 43.83B.420. 91-03-081 (Order 90-53), § 173-166-040, filed 1/17/91, effective 2/17/91. Statutory Authority: 1977 c 339 § 75. 78-04-019 (Order 78-3), § 173-166-040, filed 3/10/78.]

WAC 173-166-050 Forecast of drought conditions. (1) Whenever it appears to the department of ecology that drought conditions as defined in WAC 173-166-030(2) either exist or are forecast to occur, ecology will consult with the state's water supply availability committee or its successor. Other appropriate sources of water supply information, such as the Columbia River water management group and the U.S. Army Corps of Engineers, may be consulted by the WSAC as needed.

(2) Should the water supply availability committee determine that a geographical area or a part of a geographical area is receiving, or is likely to receive, seventy-five percent or less of its normal water supply, it will advise the executive water emergency committee and the Indian tribes within the area of that fact. The executive water emergency committee will then make a determination as to whether or not undue hardships will occur as a result of the shortage.

(3) Should the executive water emergency committee determine that an area will suffer undue hardship as a result of a reduced water supply, it will submit a recommendation to that effect to the governor for written approval. Affected Indian tribes will be notified at the time such a recommendation is submitted.

(4) Upon securing the written approval of the governor, ecology will then issue an order declaring a geographical area or a significant part of a geographical area to be suffering from drought conditions and publish that order in a newspaper of general circulation in the area affected by the order.

(5) The determination of drought conditions will be based upon the updated seasonal forecast as applied to the water supply conditions within the designated geographical area or part of a designated geographical area.

[Statutory Authority: RCW 43.83B.420. 91-03-081 (Order 90-53), § 173-166-050, filed 1/17/91, effective 2/17/91. Statutory Authority: 1977 c 339 § 75. 78-04-019 (Order 78-3), § 173-166-050, filed 3/10/78.]

WAC 173-166-060 Orders declaring drought conditions. (1) If the department of ecology determines that a geographical area or part of a geographical area is suffering from drought conditions, it may, upon the advice of the water supply availability committee, with the concurrence of the executive water emergency committee, and the written approval of the governor, issue an order to that effect.

(2) The order declaring drought conditions for a geographical area or part of a geographical area must contain the following elements:

(a) A description of the geographical area or part of a geographical area which is being so designated.

(b) The facts leading to the issuance of the order.

(c) The statutory authority upon which the order is being issued.

(d) The commencement date and termination date of the order. The termination date may be no later than one calendar year from the date the order is issued.

(e) Brief descriptions of the actions which are possible under the order.

(f) Provisions for the termination of withdrawals if essential minimum flows are jeopardized.

(3) Ecology must publish the order declaring a geographical area or a part of a geographical area to be suffering from drought conditions in a newspaper of general circulation in the area affected by the order.

(4) Persons may file written protest as to the contents of the order with ecology. Ecology will have fifteen calendar days from the date of receipt of the protest in which to make a determination as to its validity, using the procedure specified in WAC 173-166-050.

(5) A person who believes that an area should be declared to be suffering from drought conditions may petition ecology for such a declaration. Upon the receipt of such a petition, ecology will have fifteen calendar days from the date of receipt of the petition in which to make a determination as to its validity, using the procedure specified in WAC 173-166-050, and provide a decision to the applicant. The petition should contain the following information:

(a) A description of the geographical area or part of a geographical area which is being requested for designation.

(b) The nature of the relief sought in requesting such a designation.

(c) The facts upon which the petition is based.

(6) Orders declaring areas to be suffering from drought conditions may, with the written approval of the governor, be amended one or more times to change the termination date, provided that the termination date of the order, as amended, is no more than two calendar years from the date the order is first issued.

(7) Orders declaring areas to be suffering from drought conditions may be issued for different areas of the state and sequentially for the same area if drought conditions persist.

[Statutory Authority: RCW 43.83B.420. 91-03-081 (Order 90-53), § 173-166-060, filed 1/17/91, effective 2/17/91. Statutory Authority: 1977 c 339 § 75. 78-04-019 (Order 78-3), § 173-166-060, filed 3/10/78.]

WAC 173-166-070 Emergency drought permits. Ecology may allow water users to obtain water from alternate sources during drought conditions. To accomplish this, ecology may issue emergency drought permits authorizing withdrawals of ground water and surface water, including dead storage in reservoirs. Permits will be processed under the following criteria:

(1) Applicants must be conducting a previously established activity within a geographical area or part of a geographical area declared to be suffering from drought conditions.

(2) An application will be processed if the water user is receiving, or is projected to receive, less than seventy-five percent of normal water supply, as the result of natural drought conditions, for the previously established activity and experiencing, or is expected to experience, undue hardship as a result.

(3) Ecology, plus all state and local agencies with authority to issue permits or other authorizations in connection with emergency actions authorized under the provisions of this chapter, will have fifteen calendar days from the date of receipt of the respective application(s) in which to provide a decision to the applicant. Agencies with authority to review applications for emergency drought permits, such as under RCW 75.20.050, and affected Indian tribes will have fifteen calendar days from the date ecology receives the application in which to provide ecology with an opinion as to any effects of the proposed withdrawal.

(4) Waters authorized to be withdrawn must be used in relation to a previously established activity as defined in this chapter. The permit must not cover irrigation of new lands, restoration or enhancement of the fisheries resource, or a water supply in addition to the normal amount used in the past by individuals, private entities, or public bodies.

(5) Waters to be withdrawn must constitute an alternate (supplemental) water supply to the user's normal source of water.

(6) The withdrawal must not reduce flows or levels below essential minimums necessary to assure the maintenance of fisheries requirements and to protect federal and state interests including, but not limited to, power generation, navigation, water quality, and existing water rights.

(7) Emergency drought permits issued under this chapter will be temporary in nature and must expire no later than the expiration date of the order declaring the area in which the permitted activity is authorized to be suffering from drought conditions.

(8) Priority will be given to domestic and irrigation uses of water for any emergency withdrawals authorized under this chapter.

(9) Emergency drought permits issued under this chapter must contain provisions for termination should the withdrawal reduce flows or levels below essential minimums as defined in this chapter.

(10) To expedite the issuance of emergency drought permits, ecology is authorized to process the applications and issue the permits without compliance with requirements for:

(a) Notice of newspaper publication.

(b) The State Environmental Policy Act.

[Statutory Authority: RCW 43.83B.420. 91-03-081 (Order 90-53), § 173-166-070, filed 1/17/91, effective 2/17/91. Statutory Authority: Chapters 43.83B and 43.27A RCW. 88-13-037 (Order 88-11), § 173-166-070, filed 6/9/88.]

WAC 173-166-080 Temporary transfers of water rights. (1) Ecology may approve emergency water right changes in order to effect a transfer of water between willing parties. Water right changes can include purpose of use, place of use, and point of diversion.

(2) Examples of possible water right transfers include, but are not limited to, the following situations:

(a) A water right holder may choose to reduce irrigated acreage and transfer the unused water to another water right holder whose normal water supply is decreased by drought conditions. The acreage irrigated with transferred water on the second parcel may not exceed the acreage reduction on the first parcel.

(b) A water right holder may transfer a water right from an out-of-stream use to an instream use.

(c) Municipalities or other public bodies may transfer water between one another.

(3) Requests for water right transfers will be processed under the following criteria:

(a) Applicants must be conducting a previously established activity within a geographical area or part of a geographical area declared to be suffering from drought conditions.

(b) An application for a water right transfer will be processed if the recipient water user is receiving, or is projected to receive, less than seventy-five percent of normal water supply, as the result of natural drought conditions, for the previously established activity and experiencing, or is expected to experience, undue hardship as a result.

(c) All approvals by ecology for water right transfers under this chapter will be temporary in nature and will be for the purpose of alleviating drought conditions. These approvals must terminate no later than the expiration date of the order which declares the area to be suffering from drought conditions.

(d) Water right transfers between willing parties may be approved when an emergency exists only if such a transfer will not affect existing rights whatsoever, or reduce flows or levels below essential minimums, or adversely affect federal and state interests including, but not limited to, power generation, navigation, and water quality.

(e) Water rights may be transferred within areas declared to be suffering from drought conditions. Water rights may

also be transferred from outside an area declared to be suffering from drought conditions into an area declared to be suffering from drought conditions, provided such a transfer of water is physically possible and is consistent with the provisions of RCW 90.03.380, 90.03.390, and 90.44.100. Water rights will not be transferred from within an area declared to be suffering from drought conditions to outside that area.

(f) To expedite water transfers during drought conditions, ecology can approve temporary changes in water rights without compliance with requirements for:

(i) Notice of newspaper publication.

(ii) The State Environmental Policy Act.

(g) In those cases where temporary water transfers require court approval while general adjudication proceedings are ongoing, ecology will assist the court in coordination, maintaining communications, and providing technical assistance when requested.

(h) The temporary changing of a water right under this chapter will not be admissible as evidence in either supporting or contesting the validity of water claims in a general adjudication of water rights in the state of Washington.

(i) Ecology, plus all state and local agencies with authority to issue permits or other authorizations in connection with emergency actions authorized under the provisions of this chapter, will have fifteen calendar days from the date of receipt of the respective application(s) in which to provide a decision to the applicant. Agencies with authority to review applications for temporary water right transfers, such as under RCW 75.20.050, and affected Indian tribes will have fifteen calendar days from the date ecology receives the application in which to provide ecology with an opinion as to any effects of the proposed transfer.

[Statutory Authority: RCW 43.83B.420. 91-03-081 (Order 90-53), § 173-166-080, filed 1/17/91, effective 2/17/91.]

WAC 173-166-090 Funding assistance—General criteria. Ecology may provide funding assistance to public bodies for projects and measures designed to alleviate drought conditions relating to agricultural and fisheries survival. Funding is available from emergency agricultural water supply funds under RCW 43.83B.300. Funding assistance will be based upon the total funds available at the beginning of the current biennium. General criteria under which funds will be provided:

(1) Public bodies eligible to receive emergency funds are defined in RCW 43.83B.050 as ". . . the state of Washington, or any agency, political subdivision, taxing district, or municipal corporation thereof, an agency of the federal government, and those Indian tribes now or hereafter recognized as such by the federal government for participation in the federal land and water conservation program and which may constitutionally receive grants or loans from the state of Washington."

(2) The public body applying for emergency funds must be conducting the previously established activity for which they seek funding assistance within an area declared to be suffering from drought conditions as defined in WAC 173-166-030(2).

(3) The public body applying for emergency funds must be receiving, or be projected to receive, less than seventy-five percent of normal water supply, as the result of natural drought conditions, for the previously established activity for which they seek funding assistance and experiencing, or be expected to experience, undue hardship as a result.

(4) Funding assistance will be for planning, acquisition, construction, rehabilitation, and improvement of water supply facilities and for other appropriate measures to assure the survival of irrigated agriculture and the state's fisheries resource.

(5) Funding assistance will be available only for projects or measures undertaken in response to drought conditions which are beyond the normal scope of operations of the public body applying for emergency funds.

(6) No more than ten percent of total available funds will be allocated for nonagricultural drought relief purposes, including the preservation of the state's fisheries during a given biennium.

(7) Funding assistance may be in the form of a loan or a grant or a combination loan and grant.

(8) Loans, grants, or combination loans and grants may be used as matching funds in cases where federal, local, or other funds are also available.

(9) Emergency loans may be approved with a payback period not to exceed fifteen years, with the interest rate to be equal to the final discount rate established for one year U.S. Treasury Bills at the first auction following the beginning of the state fiscal year in which the loan is approved.

(10) Ecology, plus all state and local agencies that are affected by the proposed project or measure, in keeping with the emergency nature of these provisions, will process the respective application(s) and provide a decision(s) to the applicant in an expeditious manner.

(11) To expedite the implementation of drought relief projects and measures, ecology can approve funding assistance without compliance with requirements for:

(a) Notice of publication.

(b) The State Environmental Policy Act.

[Statutory Authority: RCW 43.83B.420. 91-03-081 (Order 90-53), § 173-166-090, filed 1/17/91, effective 2/17/91.]

WAC 173-166-100 Funding assistance—Agricultural criteria. (1) Funding assistance to alleviate drought conditions in irrigated agriculture will be provided under the following formula:

(a) No single entity will receive more than ten percent of the total funds available for drought relief.

(b) A loan may be made for up to ninety percent of total eligible project costs.

(c) A combination loan and grant may be made for up to one hundred percent of total eligible project costs.

(d) A grant or the grant portion of a combination loan and grant may be made for twenty percent of total eligible project costs if the public body being provided funds is within a geographical area declared to be suffering from drought conditions as defined in WAC 173-166-030(2).

(e) The grant or grant portion of a combination loan and grant may be made for up to forty percent of total eligible project costs if the public body being provided funds is receiving, or is forecast to receive, fifty percent or less of normal seasonal water supplies.

(f) A grant or the grant portion of a combination loan and grant may be amended to increase the grant up to forty percent of eligible project costs if drought conditions as defined in this chapter change after a grant has been signed for twenty percent of eligible project costs, provided:

(i) That the grantee qualifies for the higher grant as defined in (e) of this subsection; and

(ii) That the original grant agreement has not been terminated or closed out.

(g) The grant or grant portion of a combination loan and grant, once signed by all parties, may not be reduced despite any subsequent improvement in water supply conditions.

(2) Eligibility conditions for each proposed agricultural project or measure are:

(a) The proposed project or measure must be within an area declared to be suffering from drought conditions as defined in WAC 173-166-030(2).

(b) The public body applying for emergency funds must be receiving, or be projected to receive, less than seventy-five percent of normal water supply and experiencing, or be expected to experience, undue hardship as a result for the previously established activity for which they seek funding assistance.

(c) The proposed project or measure must be for a beneficial use involving a previously established activity or purpose.

(d) The proposed project or measure must assist in alleviating a water shortage.

(e) The public body receiving the loan must satisfy ecology as to its ability to repay the loan and complete the project or measure.

(f) Water derived from the project or measure must be put to beneficial use as a substitute for water not available because of a drought.

(g) Water derived from the project or measure must not be used to irrigate new lands.

(h) The proposed project or measure must not adversely affect existing rights, including both instream and out-of-stream rights.

(i) All required permits and approvals for the proposed project or measure must be obtained by the applicant prior to a loan or grant agreement being signed.

(3) Eligible projects that may be funded for drought relief of irrigated agriculture include, but are not limited to:

(a) Pumps and accessories.

(b) Discharge lines.

(c) Pipelines.

(d) Canals and laterals with control structures.

(e) Liners for leaky pipes and canals.

(f) Diversion structures.

(g) Reregulating reservoirs.

(h) Measuring devices.

(i) Wells with pumps and accessories.

(4) Eligible measures that may be funded include the means for implementing water conservation procedures, acquiring alternate water sources, or transferring water rights, provided that the proposed measure represents an additional cost to the applicant as the result of drought conditions, and not as a substitute for normal water supply costs.

(a) Types of eligible measures for implementing water conservation procedures include, but are not limited to:

(i) Irrigation scheduling programs and activities, including the necessary personnel to accomplish such activities.

(ii) Education programs.

(b) Types of eligible measures for acquiring alternate water sources or transferring water rights include, but are not limited to:

(i) Water leasing fees.

(ii) Repair costs.

(iii) Power costs.

(5) Priority will be given to those proposed agricultural projects and measures which:

(a) Need additional water supplies. Need will be measured by:

(i) The short-term and long-term effects that the water shortage would have on the applicant's crops in the absence of drought relief;

(ii) The capability and reliability of the proposed project or measure to provide an emergency water supply to the applicant;

(iii) The percent of water shortage expected for each applicant.

(b) Are the most effective in achieving long-term reductions (conservation) in water requirements and/or more efficient use of available supplies.

(c) Present no, or minimal, overall environmental impacts, including any detrimental effects to wetlands. Any such impacts should be identified to the best extent possible by the applicant at the time of application.

(6) Preference will be given to those public bodies implementing water conservation plans, water system efficiency improvements, and other drought contingency actions in addition to the funding assistance applied for under this chapter.

[Statutory Authority: RCW 43.83B.420. 91-03-081 (Order 90-53), § 173-166-100, filed 1/17/91, effective 2/17/91.]

WAC 173-166-110 Funding assistance—Fisheries criteria. (1) Ecology may provide funding assistance to alleviate drought conditions affecting the state's fisheries resource provided that no other capital budget funds are available for these purposes at the date of application, as verified by the office of financial management. Funding assistance will be based upon the following formula:

(a) A loan may be made for up to ninety percent of total eligible project costs.

(b) A combination loan and grant may be made for up to one hundred percent of total eligible project costs.

(c) A grant or the grant portion of a combination loan and grant may be made for twenty percent of total eligible project costs if the public body being provided funds is within a geographical area declared to be suffering from drought conditions as defined in WAC 173-166-030(2).

(d) The grant or the grant portion of a combination loan and grant may be made for up to forty percent of total eligible project costs if the public body being provided funds is receiving, or is forecast to receive, fifty percent or less of normal seasonal water supplies.

(e) A grant or the grant portion of a combination loan and grant may be amended to increase the grant up to forty percent of eligible project costs if drought conditions as defined in this chapter change after a grant has been signed for twenty percent of eligible project costs, provided:

(i) That the grantee qualifies for the higher grant as defined in (d) of this subsection; and

(ii) That the original grant agreement has not been terminated or closed out.

(f) The grant or grant portion of a combination loan and grant, once signed by all parties, may not be reduced despite any subsequent improvement in water supply conditions.

(g) No more than ten percent of total funds available at the beginning of the current biennium will be allocated for nonagricultural drought relief purposes, including the preservation of the state's fisheries, during that biennium.

(2) Eligibility conditions for each proposed fisheries project are:

(a) The project lies within a geographic area declared to be suffering from drought conditions.

(b) The proposed project must assist in alleviating the water shortage.

(c) Water from the proposed project must be put to beneficial use as a substitute for water not available because of the drought.

(d) Water derived from projects that are provided funding assistance must not be used to restore or enhance the fisheries resource.

(3) Eligible projects that may be funded for the protection of fish culture at hatcheries from drought conditions include, but are not limited to:

(a) Purchase and installation of water-reuse pumps.

(b) Modifying hatchery outlet structures.

(c) Modifying stream channels adjacent to a hatchery to assure passage to the holding pond.

(d) Provision and maintenance of oxygen levels in offsite holding ponds by purchase and installation of bottle gas (using air stones), or oxygen generation systems, or mechanical aeration.

(4) Eligible projects that may be funded to protect instream fish habitat from drought conditions include, but are not limited to:

(a) Augmentation of instream flows through transfers of diversionary surface and ground water rights.

(b) Augmentation of instream flows through temporary withdrawals of ground waters.

(c) Stream channel modification such as trenching, sandbagging, or berming to protect spawning gravels.

(5) Eligible projects that may be funded to optimize fish survival during drought conditions include, but are not limited to:

(a) Capture and relocation of stranded fish.

(b) Stream channel modification such as trenching, sandbagging, or berming to provide migratory channels for fish passage.

(6) The departments of fisheries and wildlife, plus any potentially affected Indian tribes, will be consulted to verify eligibility, needs, and nature of all proposed fisheries projects and measures.

(7) Preference will be given to those public bodies implementing water conservation plans, water system efficiency improvements, and other drought contingency actions in addition to the funding assistance applied for under this chapter.

[Statutory Authority: RCW 43.83B.420. 91-03-081 (Order 90-53), § 173-166-110, filed 1/17/91, effective 2/17/91.]

WAC 173-166-120 Requests for drought relief—Contacts—Applications. (1) Information regarding implementation of this chapter, and applications for emergency drought permits, water right transfers, and/or funding assistance can be obtained from the ecology headquarters office, water resources program, or from any of the four ecology regional offices. Ecology regional offices are located in Redmond, Spokane, Tumwater, and Yakima.

(2) Copies of statutes and regulations cited in this chapter may be obtained from the ecology headquarters office in Olympia.

(3) Ecology actions pertaining to the determination of which areas are suffering from drought conditions, the issuance of orders declaring areas to be suffering from drought conditions, plus any actions concerning protests of such declarations or petitions for consideration for such a designation will be conducted by the ecology headquarters office, water resources program.

(4) Ecology actions pertaining to emergency drought permits and water right transfers will be conducted by the appropriate ecology regional office.

(5) The ecology headquarters office, water resources program, will administer funding assistance and manage the drought relief program in accordance with the provisions of this chapter.

[Statutory Authority: RCW 43.83B.420. 91-03-081 (Order 90-53), § 173-166-120, filed 1/17/91, effective 2/17/91.]

WAC 173-166-130 Appeals. All final written decisions of the department of ecology made pursuant to this chapter shall be subject to review by the pollution control hearings board in accordance with the provisions of chapter 43.21B RCW.

[Statutory Authority: RCW 43.83B.420. 91-03-081 (Order 90-53), § 173-166-130, filed 1/17/91, effective 2/17/91.]

WAC 173-166-140 Regulation review. The department of ecology will initiate a review of the rules established in this chapter whenever new information, changing conditions, or statutory modifications make it necessary to consider revisions.

[Statutory Authority: RCW 43.83B.420. 91-03-081 (Order 90-53), § 173-166-140, filed 1/17/91, effective 2/17/91.]

Chapter 173-170 WAC
AGRICULTURAL WATER SUPPLY FACILITIES

WAC

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WAC 173-170-010 Purpose and authority. The purpose of this chapter is to establish requirements for the grant and loan program covering rehabilitation, improvement, and construction of agricultural water supply facilities pursuant to Referendum 38, chapter 43.99E RCW. The department shall provide grants and loans to applicants for water supply facilities for agricultural use alone or in combination with fishery, recreational, or other beneficial uses of water. In this regard, an objective of providing state assistance to public bodies engaged in irrigation shall be to assist those entities in improving their efficiency of water use beyond current levels.

Note: All statutes, rules, or regulations cited in this chapter are available for review at Department of Ecology, Mailstop PV-11, Olympia, WA 98504-8711.

[Statutory Authority: RCW 43.17.060. 90-20-109, § 173-170-010, filed 10/2/90, effective 11/2/90.]

WAC 173-170-020 Definitions. (1) "Department" means the Washington state department of ecology.

(2) "Agreement" means a binding legal document containing all applicable terms and conditions pertaining to loans and/or grants entered into under Referendum 38 which is signed by the program manager for the department's water resources program and by the duly authorized official of the applicant.

(3) "Agricultural water supply facility" means a water supply and distribution system used for agricultural purposes and owned or operated by a public body, including but not limited to all equipment, utilities, structures, real property, and interests in and improvements on real property necessary for or incidental to the acquisition, construction, installation, or use of any such water supply or distribution system.

(4) "Applicant" means the public body making a request for financial assistance under Referendum 38.

(5) "Class A project" means a construction element associated with an agricultural water supply facility which:

(a) Results in improved water use efficiency and/or quantitative water savings as determined by the department; and

(b) Is one or more of the following: (i) Canal and lateral linings; (ii) piped conveyance and distribution system; (iii) consolidation and/or realignment of delivery systems; (iv) flow measuring devices, e.g., flow control devices; (v) entire structures/regulating structures (which are new or replace obsolete ones) including: (A) Checks, (B) checkdrops, (C) siphons, (D) turnouts, (E) flumes, (F) reregulation reservoirs; (vi) multiple use water storage dams and reservoirs; (vii) automation with central control of regulating structures including on-off control of pumping plants in canals and laterals; (viii) new booster pumps for pressurized systems; (ix) project pumping plants;

(c) In the event there are technological advances that increase water use efficiency and/or result in significant water savings that are not described in (a) of this subsection, such project element(s) will be evaluated as a Class A project by the department.

(6) "Class B project" means a construction element associated with an agricultural water supply facility which:

(a) Does not contribute to quantitative water savings as determined by the department; and

(b) Is one or more of the following: (i) In-line water withdrawal pumping plant; (ii) well drilling, well pumps; (iii) diversion dams; (iv) replacement, rehabilitation, or improvement of in-line booster pump(s); (v) rehabilitation or improvement of storage dam(s) or part(s) thereof.

(7) "Emergency project" means a capital improvement construction element to repair, due to natural causes (except drought), water supply, diversion or conveyance facilities, which is necessary to prevent unsafe conditions or ensure the continued delivery or conveyance of water in the agricultural water supply system.

(8) "Financial assistance" means grants and loans as authorized by chapter 43.99E RCW, Referendum 38.

(9) "Fisheries facility" means a construction element associated with an agricultural water supply facility which:

(a) Is identified as an integral element of a project for the construction, rehabilitation, and/or improvement of an agricultural water supply facility; and

(b) Will provide recognized benefits to the anadromous and/or resident fish species of the state.

(10) "Implementation phase" means the acquisition, design, construction, and improvement of agricultural water supply facilities within an irrigation district or a specific area or drainage basin for storing, diverting, transporting, or distributing water to land for irrigation and for protecting and enhancing fisheries, recreational, or other beneficial uses that may be associated with such facilities.

(11) "Local clearinghouse" means the county or regional comprehensive planning agency designated to serve as a coordinating office for certain local areas. A list of clearinghouses is available from the department. The local clearinghouses review proposed projects for conformance to regional plans, ask for comments from other agencies, and relay these remarks back to the applicant. This process helps assure that policies and comprehensive plans of cities, counties, or regions will be followed.

(12) "Payment schedule" means the due dates for loan payments and any interest thereon, as included in the loan agreement.

(13) "Planning phase" means the preparation of a comprehensive water conservation plan which conforms with WAC 173-170-060, which covers the applicant's entire jurisdiction and service area.

(14) "Plans and specifications" means engineering information and calculations to support the project and construction drawings with necessary engineering detail of the project and complete material specifications and standards to support the drawings and project. These will be prepared in sufficient detail and, upon approval by the department, become part of the bid documents which allow contractors to bid on and con-

struct agricultural water supply facilities or attendant fisheries facilities or recreational facilities or a portion thereof.

(15) "Public body" means the state of Washington or any agency, political subdivision, taxing district, or municipal or public corporation thereof; an agency of the federal government; and those Indian tribes which may constitutionally receive grants or loans from the state of Washington.

(16) "Recreational facility" means a water and/or water-associated system which:

(a) Is identified as an integral element of an agricultural water supply facility; and

(b) Will provide recognized benefits for human use and recreation through fishing, boating, water skiing, swimming, rafting, picnicking, and/or camping.

(17) "Referendum 38" means the grant and loan financial assistance program and its procedures, which pertain to agricultural water supply facilities alone or in combination with fishery, recreational, or other beneficial uses of water, as authorized in chapter 43.99E RCW.

(18) "Request for financial assistance" means the formal application packet, as described in WAC 173-170-030 and 173-170-060, submitted to the department requesting grant and/or loan funds to accomplish an eligible project.

(19) "Small parcels" means those lands which:

(a) Have been platted or subdivided prior to the enactment of the 1985 amendment to RCW 58.17.310; and

(b) Are entitled to receive irrigation water for noncommercial use; and

(c) Lie wholly within an irrigation district established under state laws prior to July 28, 1985.

(20) "Water use efficiency elements" means those implementation projects or portions thereof which result in reduced operational and conveyance losses and improved delivery of requisite amounts of water to farms within the limits of the pertinent water right permit or certificate.

[Statutory Authority: RCW 43.17.060. 90-20-109, § 173-170-020, filed 10/2/90, effective 11/2/90.]

WAC 173-170-030 Application process—Planning phase. (1) Requests for financial assistance for the planning phase shall be submitted to the department between November 1 of any year and the last day of February of the following year.

(2) The applicant shall submit an application form with the following minimum information:

(a) Who shall prepare the comprehensive plan;

(b) A projected completion date for the comprehensive plan;

(c) A United States Geological Survey Quadrangle or comparable map of the area to be covered by the comprehensive plan.

(3) Requests for loan funding must be accompanied by a resolution executed by the applicant's governing body that they will follow the procedures for indebtedness in chapter 87.03 RCW and establish a reserve account into which funds will be deposited in an amount adequate to provide coverage for principal and interest payments due under the loan agreement, whenever circumstances beyond the applicant's control preclude payments from standard sources.

(4) Within ninety days of receipt of the request for financial assistance, the department will notify the applicant of its preliminary findings regarding eligibility. In all cases the department shall make its final selection of funded projects and notify the applicants no later than May 31 following the application period.

[Statutory Authority: RCW 43.17.060. 90-20-109, § 173-170-030, filed 10/2/90, effective 11/2/90.]

WAC 173-170-040 Comprehensive water conservation plan—Contents—Funding. The comprehensive water conservation plan, which is the ultimate work product due at the end of the planning phase, will address and provide information on the following topics for the geographical area indicated in the request for financial assistance:

Applicant Organization

(1) Applicant's statutory authority; history of organization management; assessment authority; and operation procedures and management policies.

Land Base and Land Use

(2) Layout map showing:

(a) Boundaries of the applicant's jurisdiction and service area;

(b) Location of: (i) The lands which are assessed by the applicant, and (ii) those lands to which water is delivered in accordance with the water rights or water right claims or otherwise;

(c) Land use information including total acres irrigated over a representative historical period and cropping patterns for each year of a recent five-year period.

Water Supply, Use, and Rights

(3) Layout map showing location of: (a) Natural features (streams, rivers, lakes, ground water aquifers) including those in the watershed(s) where the water supply originates; and (b) all of the applicant's existing water supply facilities inside and out of its service area.

(4) Information on the applicant's and/or pertinent individual's water rights and/or water right claims for irrigation water supply, including ongoing or future water rights or water rights claims, conflicts, and litigation.

(5) Hydrologic water supply data including historical records of surface water availability (natural flows and storage), and ground water pumpages and other pertinent aquifer data on availability for withdrawal for water supply purposes.

(6) Quantities of surface water diverted and/or ground water withdrawn for water supply for each year of a recent five-year period. (Annual and monthly acre-feet and maximum and minimum monthly flows in cfs (surface) and gpm (ground water).)

(7) Identify and assess the hydrological water flow system within the applicant's service area as it pertains to the quantities of water: (a) Diverted or withdrawn, (b) conveyed and distributed, (c) delivered and applied on farm, (d) which recharge the ground water and are returned to the agricultural water supply system, and (e) which comprise return flows for

further irrigation downstream within the agricultural water supply system.

(8) Identify the quality of water supply and an assessment of the water quality impacts from use of the agricultural water supply system within the applicant's jurisdiction.

Present Facilities and Operations

(9) Identify and describe the present physical system utilized for the storage, diversion, pumping, conveyance, and distribution of the water supply.

(10) Assess and evaluate the existing water supply system including system efficiencies and energy use.

Water Needs and Adequacy of Water Supply

(11) Forecast future trends of land use.

(12) Estimate irrigation water requirements for the present and anticipated land use and cropping patterns.

(13) Relate the water needs to present water supply available.

Evaluation of Opportunities for Improvements in Water Supply and Distribution System Efficiencies

(14) Identify improvements in water supply and distribution system efficiencies (structural and nonstructural).

(15) Document a system improvements and rehabilitation plan, prepare preliminary designs and cost estimates, and estimate time frame for implementation. Identify location of improvements on layout map.

(16) Quantify the reasonable net water savings that would result from the efficiency improvements.

(17) Identify and describe opportunities for improving irrigation water management.

(18) Quantify any net energy savings that would result from efficiency improvements.

(19) Evaluate the socioeconomic impacts from the efficiency improvements and rehabilitation plan and changes or modifications of the systems operations and management policies. Discuss and quantify the benefits that accrue from the implementation of the improvements and rehabilitation plan.

(20) Assess and evaluate the impacts and benefits of transferring the net water savings to other water uses and resources.

(21) Identify associated wetlands and assess the impacts on them from implementation of the physical system's improvements and rehabilitation plan.

(22) Evaluate the impacts on water quality standards from implementation of the physical system's improvements and rehabilitation plan.

(23) Evaluate other environmental impacts from the efficiency improvements and rehabilitation plan. Develop a plan regarding compliance with the State Environmental Policy Act (SEPA) and the National Environmental Policy Act (NEPA) if applicable.

Financial

(24) Develop a financial program that addresses the implementation of the improvements and rehabilitation plan. The financial program should include, among other elements, a time schedule for completing the comprehensive water conservation plan, a summary of the applicant's current indebtedness and repayment plans, present and future operation, maintenance and energy costs (with and without implementation of the proposed project), and a schedule of assessments to cover planned indebtedness to complete implementation of the comprehensive water conservation plan.

[Statutory Authority: RCW 43.17.060. 90-20-109, § 173-170-040, filed 10/2/90, effective 11/2/90.]

WAC 173-170-050 Planning phase—Funding. (1) Financial assistance will be available for the planning phase in the form of:

(a) Grants in the amount of fifty percent of the total eligible phase costs; and

(b) Concurrent loans in the amount of forty percent of the total eligible phase costs.

(2) Loans shall be for a maximum five-year period, repayable at an annual percentage rate which equals the rate for one year federal treasury bills at the first auction following July 1 of the year in which the loan agreement is entered into, discounted by four percent.

(3) Comprehensive water conservation plans must precede the implementation phase for projects approved after the effective date of these rules, with the following exceptions:

(a) Specific project work approved by the department prior to the effective date of these rules; or

(b) Project work that is currently in the implementation phase, when these rules become effective; or

(c) Specific project work that is approved by the department as part of a phased project begun prior to the effective date of these rules.

For these exceptions, work may proceed without an approved comprehensive water conservation plan, provided that the applicant undertakes and completes its plan covering such projects within two years from the effective date of these rules.

(4) Financial assistance for the planning phase, regardless of the form it takes, may not exceed two hundred thousand dollars per applicant. This ceiling shall not be subject to the review contained in WAC 173-170-080(5).

[Statutory Authority: RCW 43.17.060. 90-20-109, § 173-170-050, filed 10/2/90, effective 11/2/90.]

WAC 173-170-060 Application process—Implementation phase. (1) Requests for financial assistance for the implementation phase shall be submitted to the department between November 1 of any year and the last day of February of the following year.

(2) The applicant will submit two preapplication forms to the nearest local clearinghouse; one for the department and one for planning and community affairs. These forms are available from either the department or the clearinghouse.

(3) The applicant shall accompany the request for financial assistance with a copy of the completed comprehensive water conservation plan as approved by the department indicating which part(s) of the plan the proposed project fits under and the location of the proposed project on a United

States Geological Survey Quadrangle map or any other comparable and readily available map.

(4) Within ninety days of receipt of the request for financial assistance, the department will notify the applicant of its preliminary findings regarding eligibility as to organization, type of project, purpose(s) of project, and conformance with the objectives of Referendum 38. In all cases the department shall make its final selection of funded projects and notify the applicant no later than May 31 of the year following the close of the current application period.

(5) Requests for loan funding must be accompanied by a resolution executed by the applicant's governing body that they will follow the procedures for indebtedness in chapter 87.03 RCW and establish a reserve account into which funds will be deposited in an amount adequate to provide coverage for principal and interest payments due under the loan agreement, whenever circumstances beyond the applicant's control preclude payments from standard sources.

[Statutory Authority: RCW 43.17.060. 90-20-109, § 173-170-060, filed 10/2/90, effective 11/2/90.]

WAC 173-170-070 Criteria for approval of requests for financial assistance—Implementation phase. (1)(a) The implementation phase project(s) must be included in a comprehensive water conservation plan approved by the department.

(b) For projects that received approval from the department prior to the effective date of these rules, work may proceed provided the applicant undertakes and completes a comprehensive water conservation plan within two years of the effective date of these rules.

(2) The agricultural water supply facilities must be designed to accomplish the purpose of the planned project. Accepted engineering design principles, criteria, and concepts will be used in the design of the facilities and approved by the department. Cost estimates for the proposed project must be prepared in detail. Plans and specifications must be approved by the department prior to advertising for construction bids.

(3) The State Environmental Policy Act (SEPA) requirements for any proposed actions must be met. The SEPA rules, chapter 197-11 WAC, will be followed to determine the environmental impacts of the proposed project. A copy of the environmental assessment and the final impact statement, if appropriate, must be submitted to the department. If no impact statement has been prepared, a copy of the declaration of nonsignificance in accordance with chapter 197-11 WAC must be submitted to the department.

(4) Documentation showing all lands and land rights required for satisfactory construction, operation, and maintenance of the project have been or can be acquired.

(5) The project will not be in conflict with any applicable federal, state, and local laws, orders, regulations, rules, licenses, and permits.

[Statutory Authority: RCW 43.17.060. 90-20-109, § 173-170-070, filed 10/2/90, effective 11/2/90.]

WAC 173-170-080 Implementation phase—Funding. (1) Implementation phase projects will be categorized by the department as Class A projects or Class B projects in accordance with the definitions for those terms under WAC 173-170-020 (5) and (6).

(2) For projects that received approval from the department prior to the effective date of these rules and where the applicant is working on the comprehensive water conservation plan, financial assistance will be available as follows:

(a) For Class A projects, grants in the amount of twenty-five percent of the total eligible project costs; and concurrent loans in the amount of sixty-five percent of the total eligible project costs.

(b) For Class B projects, grants in the amount of fifteen percent of the total eligible project costs; and concurrent loans in the amount of seventy-five percent of the total eligible project costs.

(3) Financial assistance for Class A projects subject to a completed comprehensive water conservation plan will be available in the form of:

(a) Grants in the amount of thirty percent of the total eligible project costs; and

(b) Concurrent loans in the amount of sixty percent of the total eligible project costs.

(4) Financial assistance for Class B projects subject to a completed comprehensive water conservation plan will be available in the form of:

(a) Grants in the amount of fifteen percent of the total eligible project costs; and

(b) Concurrent loans in the amount of seventy-five percent of the total eligible project costs.

(5) Financial assistance for implementation phase projects shall be limited to a total of one million five hundred thousand dollars per applicant regardless of the form such financial assistance takes, with the following possibility of increase. This cap shall be subject to review on July 1, 1994. In the event that demand on the Referendum 38 fund is significantly less than anticipated this cap may be adjusted upwards to provide more funding possibilities to applicants already at the upper limit.

(6) Loans shall be available on the following repayment and interest schedule:

(a) Loans for up to a maximum five-year period, repayable with interest at an annual percentage rate which equals the rate for one year federal treasury bills at the first auction following July 1 of the year in which the loan agreement is entered into, discounted by four percent.

(b) Loans for five years through a maximum ten-year period, repayable with interest at an annual percentage rate which equals the rate for one year federal treasury bills at the first auction following July 1 of the year in which the loan agreement is entered into, discounted by two percent.

(c) Loans for ten years through a maximum fifteen-year period, repayable with interest at an annual percentage rate which equals the rate for one year federal treasury bills at the first auction following July 1 of the year in which the loan agreement is entered into, discounted by one percent.

(d) Loans for fifteen years through a maximum twenty-five-year period, repayable with interest at an annual percentage rate which equals the rate for one year federal treasury bills at the first auction following July 1 of the year in which the loan agreement is entered into.

[Statutory Authority: RCW 43.17.060. 90-20-109, § 173-170-080, filed 10/2/90, effective 11/2/90.]

WAC 173-170-090 Emergency projects—Applications—Designation—Funding. (1) Applications for emergency projects may be accepted at any time throughout the year. The application shall indicate:

(a) The nature of the occurrence that caused the need for repairs;

(b) The location of needed repairs;

(c) A project description of the repairs; and

(d) A summary of how the repairs fit within the long-range improvements addressed in the comprehensive water conservation plan.

If the comprehensive water conservation plan has not been completed, a summary of how the repairs fit within proposed long-range improvements.

(2) Upon receipt of the application the department will designate the emergency project as a Class A or Class B project. A decision on whether to fund the emergency project will be made within fifteen days of receipt of the application. The department may agree to the applicant incurring costs prior to an agreement being signed and shall so indicate by letter to the applicant.

(3) Financial assistance for emergency projects shall take the following form:

(a) For Class A projects, grants in the amount of thirty percent of the total eligible project costs; and concurrent loans in the amount of sixty percent of the total eligible project costs; or

(b) For Class B projects, grants in the amount of fifteen percent of the total eligible project costs; and concurrent loans in the amount of seventy-five percent of the total eligible project costs.

[Statutory Authority: RCW 43.17.060. 90-20-109, § 173-170-090, filed 10/2/90, effective 11/2/90.]

WAC 173-170-100 Small parcels—Funding. (1) A small parcel element is that part of an implementation project that provides irrigation water for noncommercial use to small parcels, as defined in WAC 173-170-020(19).

(2) Financial assistance for the small parcel element shall be available in the form of:

(a) Grants in the amount of fifteen percent of the small parcel element's total eligible costs; and

(b) Loans in the amount of fifty percent when unaccompanied by a grant or thirty-five percent in combination with a grant of the small parcel element's total eligible costs.

(3) Financial assistance, whether grant, loan, or a combination grant and loan, may not exceed one hundred thousand dollars for any one applicant.

(4) Total funds available statewide for small parcel elements is one million dollars. Any moneys unspent out of that fund on July 1, 1995, shall be transferred to the general implementation fund and shall no longer be available for small parcel elements.

[Statutory Authority: RCW 43.17.060. 90-20-109, § 173-170-100, filed 10/2/90, effective 11/2/90.]

WAC 173-170-110 Fisheries and recreational facilities—Funding. (1) A fisheries or recreational facility element is the part of an implementation project that provides public benefits through concomitant use of water within an agricultural water supply facility. Specific elements are defined in WAC 173-170-020 (9) and (16).

(2) Financial assistance for the fisheries and/or recreational element shall be available as grants in the amount of seventy-five percent of the fisheries and/or recreational element's total eligible costs.

(3) Financial assistance for a fisheries and/or recreational element may not exceed five hundred twenty-five thousand dollars for any one applicant, which sum is not part of the cap on funding for the implementation phase, contained in WAC 173-170-080(5).

[Statutory Authority: RCW 43.17.060. 90-20-109, § 173-170-110, filed 10/2/90, effective 11/2/90.]

WAC 173-170-120 Supplemental guidelines. The department will publish guidelines which will describe in greater detail the financial assistance application, application review and funding issuance processes, the terms of financial assistance, and other elements of this program. These guidelines will also describe recommended methodologies for the completion of the comprehensive water conservation plan.

[Statutory Authority: RCW 43.17.060. 90-20-109, § 173-170-120, filed 10/2/90, effective 11/2/90.]

Chapter 173-175 WAC
DAM SAFETY

WAC

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173-175-700 Applicability to projects licensed or exempted by the Federal Energy Regulatory Commission (FERC). [Statutory Authority: RCW 43.21A.064, [43.21A].080 and 86.16.061. 93-01-090 (Order 92-35), § 173-175-700, filed 12/16/92, effective 1/16/93.] Repealed by 95-22-030, filed 10/24/95, effective 11/24/95. Statutory Authority: 1995 c 8.

173-175-710 Coordination between the department and the Federal Energy Regulatory Commission (FERC). [Statutory Authority: RCW 43.21A.064, [43.21A].080 and 86.16.061. 93-01-090 (Order 92-35), § 173-175-710, filed 12/16/92, effective 1/16/93.] Repealed by 95-22-030, filed 10/24/95, effective 11/24/95. Statutory Authority: 1995 c 8.

173-175-720 Construction or modification of FERC licensed projects and FERC exempted projects. [Statutory Authority: RCW 43.21A.064, [43.21A].080 and 86.16.061. 93-01-090 (Order 92-35), § 173-175-720, filed 12/16/92, effective 1/16/93.] Repealed by 95-22-030, filed 10/24/95, effective 11/24/95. Statutory Authority: 1995 c 8.

173-175-730 Construction permit fee for FERC licensed projects and FERC exempted projects. [Statutory Authority: RCW 43.21A.064, [43.21A].080 and 86.16.061. 93-01-090 (Order 92-35), § 173-175-730, filed 12/16/92, effective 1/16/93.] Repealed by 95-22-030, filed 10/24/95, effective 11/24/95. Statutory Authority: 1995 c 8.

173-175-740 Construction inspection of FERC licensed projects and FERC exempted projects. [Statutory Authority: RCW 43.21A.064, [43.21A].080 and 86.16.061. 93-01-090 (Order 92-35), § 173-175-740, filed 12/16/92, effective 1/16/93.] Repealed by 95-22-030, filed 10/24/95, effective 11/24/95. Statutory Authority: 1995 c 8.

173-175-750 Construction records reporting for FERC licensed projects and FERC exempted projects. [Statutory Authority: RCW 43.21A.064, [43.21A].080 and 86.16.061. 93-01-090 (Order 92-35), § 173-175-750, filed 12/16/92, effective 1/16/93.] Repealed by 95-22-030, filed 10/24/95, effective 11/24/95. Statutory Authority: 1995 c 8.

173-175-760 Exceptions to construction permit for FERC licensed projects and FERC exempted projects. [Statutory Authority: RCW 43.21A.064, [43.21A].080 and 86.16.061. 93-01-090 (Order 92-35), § 173-175-760, filed 12/16/92, effective 1/16/93.] Repealed by 95-22-030, filed 10/24/95, effective 11/24/95. Statutory Authority: 1995 c 8.

173-175-770 Operation of FERC licensed projects and FERC exempted projects. [Statutory Authority: RCW 43.21A.064, [43.21A].080 and 86.16.061. 93-01-090 (Order 92-35), § 173-175-770, filed 12/16/92, effective 1/16/93.] Repealed by 95-22-030, filed 10/24/95, effective 11/24/95. Statutory Authority: 1995 c 8.

173-175-780 Periodic inspection of FERC licensed projects and FERC exempted projects. [Statutory Authority: RCW 43.21A.064, [43.21A].080 and 86.16.061. 93-01-090 (Order 92-35), § 173-175-780, filed 12/16/92, effective 1/16/93.] Repealed by 95-22-030, filed 10/24/95, effective 11/24/95. Statutory Authority: 1995 c 8.

173-175-790 Emergency action plans for FERC licensed projects and FERC exempted projects. [Statutory Authority: RCW 43.21A.064, [43.21A].080 and 86.16.061. 93-01-090 (Order 92-35), § 173-175-790, filed 12/16/92, effective 1/16/93.] Repealed by 95-22-030, filed 10/24/95, effective 11/24/95. Statutory Authority: 1995 c 8.

173-175-800 Right of entry at FERC licensed projects and FERC exempted projects. [Statutory Authority: RCW 43.21A.064, [43.21A].080 and 86.16.061. 93-01-090 (Order 92-35), § 173-175-800, filed 12/16/92, effective 1/16/93.] Repealed by 95-22-030, filed 10/24/95, effective 11/24/95. Statutory Authority: 1995 c 8.

173-175-810 Enforcement at FERC licensed projects and FERC exempted projects. [Statutory Authority: RCW 43.21A.064, [43.21A].080 and 86.16.061. 93-01-090 (Order 92-35), § 173-175-810, filed 12/16/92, effective 1/16/93.] Repealed by 95-22-030, filed 10/24/95, effective 11/24/95. Statutory Authority: 1995 c 8.

173-175-820 Appeals for FERC licensed projects and FERC exempted projects. [Statutory Authority: RCW 43.21A.064, [43.21A].080 and 86.16.061. 93-01-090 (Order 92-35), § 173-175-820, filed 12/16/92, effective 1/16/93.] Repealed by 95-22-030, filed 10/24/95, effective 11/24/95. Statutory Authority: 1995 c 8.

PART ONE
GENERAL

WAC 173-175-010 Purpose and authority. These regulations provide for the comprehensive regulation and supervision of dams in order to reasonably secure safety to life and property pursuant to chapters 43.21A, 43.27A, 86.16, 90.03, 90.28, and 90.54 RCW. The purposes of these regulations are to:

(1) Designate the types of dams to which these regulations are applicable;

(2) Provide for the design, construction, operation, maintenance, and supervision of dams in a manner consistent with accepted engineering practice;

(3) Establish and administer a program for permitting of construction work for new dams and for modifications of existing dams;

(4) Establish a fee schedule based on dam size that will reflect the actual cost to the department of engineering review of plans and specifications and for construction inspections;

(5) Establish the requirements and owner responsibilities for developing and executing plans for operation and maintenance, owner inspection and emergency actions; and

(6) Encourage owners to establish a program for the periodic inspection of their projects.

[Statutory Authority: RCW 43.21A.064, [43.21A.]080 and 86.16.061. 92-12-055 (Order 91-17), § 173-175-010, filed 6/1/92, effective 7/2/92.]

WAC 173-175-020 Applicability. (1) These regulations are applicable to dams which can impound a volume of ten acre-feet or more of water as measured at the dam crest elevation. The ten acre-feet threshold applies to dams which can impound water on either an intermittent or permanent basis. Only water that can be stored above natural ground level and which could be released by a failure of the dam is considered in assessing the storage volume.

The ten acre-feet threshold applies to any dam which can impound water of any quality, or which contains any substance in combination with sufficient water to exist in a liquid or slurry state at the time of initial containment.

(2) For a dam whose dam height is six feet or less and which meets the conditions of subsection (1) of this section, the department may elect to exempt the dam from these regulations.

The decision by the department to exempt a dam will be made on a case-by-case basis for those dams whose failure is not judged to pose a risk to life and minimal property damage would be expected (downstream hazard class 3).

(3) These regulations do not apply to dams that are, or will be, owned, by an agency of the federal government which has oversight on operation and maintenance and has its own dam safety program for periodic inspection of completed projects. The department will continue to be the state repository for pertinent plans, reports, and other documents related to the safety of federally owned dams.

(4) These regulations do not apply to transportation facilities such as roads, highways, or rail lines which cross watercourses and exist solely for transportation purposes and which are regulated by other governmental agencies.

Those transportation facilities which cross watercourses and which have been, or will be, modified with the intention of impounding water on an intermittent or permanent basis and which meet the conditions of subsection (1) of this section shall be subject to these regulations.

(5) These regulations do not apply to dikes or levees constructed adjacent to or along a watercourse for protection from natural flooding or for purposes of floodplain management.

(6) These regulations do not apply to concrete or steel water storage tanks.

(7) These regulations do not apply to FERC licensed projects and to FERC exempted projects. The department will continue to maintain a repository for pertinent plans, reports, and other documents related to the safety of FERC licensed and FERC exempted projects.

[Statutory Authority: 1995 c 8. 95-22-030 (Order 94-15), § 173-175-020, filed 10/24/95, effective 11/24/95. Statutory Authority: RCW 43.21A.064, [43.21A].080 and 86.16.061. 93-01-090 (Order 92-35), § 173-175-020, filed 12/16/92, effective 1/16/93; 92-12-055 (Order 91-17), § 173-175-020, filed 6/1/92, effective 7/2/92.]

WAC 173-175-030 Definitions. As used in this chapter:

"Acceptance" means acceptance by the department that the proposed plan(s) will satisfactorily address issues associated with proper operation, maintenance, inspection, or emergency action.

"Approval" means approval by the department that the proposed design, and plans and specifications conform to accepted engineering practice and department guidelines.

"Appurtenant works" means such structures as outlet works and associated gates and valves; water conveyance structures such as spillways, channels, fish ladders, tunnels, pipelines, or penstocks; powerhouse sections; and navigation locks, either in the dam or adjacent thereto.

"Authorization" means written acknowledgement from the department to proceed with proposed actions.

"Construction change order" means a revision to the department approved plans and specifications that is initiated during construction.

"Construction permit" means the permit which authorizes construction and that the project's plans and specifications and construction inspection plan have been reviewed and approved by the department.

"Construction permit process" means the sequence of activities specified in WAC 173-175-110 inclusive, beginning with the application for construction permit and ending with the submission of a report summarizing construction records.

"Crest length" means the total horizontal distance measured along the axis of the dam, at the elevation of the top of the dam, between abutments or ends of the dam. Where applicable, this includes the spillway, powerhouse sections, and navigation locks, where they form a continuous part of the impounding structure.

"Critical project element" means an element of a project whose failure could result in the uncontrolled release of the reservoir.

"Dam" means any artificial barrier and/or any controlling works, together with appurtenant works that can or does impound or divert water.

"Dam abutment" means that contact location at either end and beneath the flanks of a dam where the artificial barrier joins or faces against the natural earth or rock foundation material upon which the dam is constructed.

"Dam height" means the vertical distance from the natural bed of the stream or watercourse at the downstream toe of the impounding barrier to the maximum storage elevation. If the dam is not across a stream or watercourse, the height is measured from the lowest elevation of the outside limit of the impounding barrier to the maximum storage elevation.

"Department" means the department of ecology.

"Design step level" means an integer value between one and eight used to designate increasingly stringent design loadings and conditions for design of critical project elements.

"Downstream hazard classification" means a rating to describe the potential for loss of human life and/or property damage if the dam were to fail and release the reservoir onto downstream areas. Downstream hazard classifications of 3, 2 and 1C, 1B, 1A correspond to low, significant, and high downstream hazard classes respectively.

"Emergency condition" means a situation where life and property are at imminent risk and actions are needed within minutes or hours to initiate corrective actions and/or warn the public.

"Enlargement" means any modification of a project that will result in an increase in normal pool height and/or dam height.

"Exigency condition" means a situation where the dam is significantly underdesigned according to generally accepted engineering standards or is in a deteriorated condition and life and property are clearly at risk. Although present conditions do not pose an imminent threat, if adverse conditions were to occur, the situation could quickly become an emergency.

"FERC exempted project" means a project that is classified as exempt by the Federal Energy Regulatory Commission (FERC) under provisions of the Federal Power Act.

"FERC licensed project" means a project whose operation is licensed by the Federal Energy Regulatory Commission (FERC) under provisions of the Federal Power Act.

"Freeboard" means the vertical distance between the dam crest elevation and some reservoir level of interest.

"Hydrograph" means a graphical representation of discharge, stage, or other hydraulic property with respect to time for a particular location on a watercourse.

"Impounding barrier" means the structural element of the dam that has the primary purpose of impounding or diverting water. It may be constructed of natural and/or man-made materials.

"Incident" means the occurrence of any dam-related event where problems or conditions arise which may have posed a threat to the safety or integrity of the project or which may have posed a threat of loss of life or which resulted in loss of life.

"Inflow design flood (IDF)" means the reservoir inflow flood hydrograph used for sizing the spillways and for determining freeboard. It represents the largest flood that a given project is designed to safely accommodate.

"Maintenance" means those tasks generally accepted as routine in keeping the project and appurtenant works in a serviceable condition.

"Maximum storage elevation" means the maximum attainable water surface elevation of the reservoir pool that could occur during extreme operating conditions. This elevation normally corresponds to the crest elevation of the dam.

"Miscellaneous construction elements" means a variety of construction elements or activities such as, but not limited to: Reservoir linings; parapet walls or low berms for wave containment; minor reconstruction of isolated portions of the impounding barrier; internal drainage improvements; and erosion protection.

"Modification" means any structural alteration of a dam, its reservoir, spillway(s), outlet(s), or other appurtenant works that could significantly influence or affect the project safety.

"Normal pool height" means the vertical distance between the lowest point of the upstream toe of the impounding barrier and the normal storage elevation.

"Normal storage elevation" means the maximum elevation to which the reservoir may rise under normal operating conditions. Where the principal spillway is ungated, the normal storage elevation is usually established by the elevation of the spillway crest.

"100-year floodplain" means the area inundated during the passage of a flood with a peak discharge having a one percent chance of being equalled or exceeded in any given year at a specified location on a watercourse.

"Outlet" means a conduit and/or channel structure for the controlled release of the contents normally impounded by a dam and reservoir.

"Owner" means the person holding lawful title to the dam or any person who owns or proposes to construct a dam.

"Periodic inspection" means a detailed inspection of the dam and appurtenant works conducted on regular intervals and includes, as necessary, associated engineering analyses to confirm the continued safe operation of the project.

"Person" means any individual, firm, association, county, public or municipal or private corporation, agency, or other entity whatsoever.

"Plans and specifications" means the detailed engineering drawings and specifications used to describe the layout, materials, construction methods, etc., for assembling a project or project element. These do not include shop drawings or other drawings prepared by the construction contractor for temporary construction support systems.

"Population at risk" means the number of people who may be present in areas downstream of a dam and could be in danger in the event of a dam failure.

"Project" means a dam and its reservoir either proposed or existing.

"Project engineer" means a professional engineer licensed in Washington, having direct supervision, as defined in WAC 196-24-095, in managing the engineering aspects of the project as representative of the owner.

"Reservoir" means any basin that contains or will contain the water impounded by a dam.

"Reservoir routing" means the procedures used to determine the attenuating effect of reservoir storage on a flood as it passes through a reservoir.

"Rule curve" means the rules and procedures used to regulate reservoir levels and project operation for various reservoir inflows and for both normal and unusual seasonal conditions.

"Significant enlargement" means any modification of an existing dam that results in the dam height or normal pool height being increased by an amount greater than 5.0 feet, and which also represents a ten percent or greater increase in dam height or normal pool height over that which existed prior to the modification.

"Spillway" means a channel structure and/or conduit for the safe release of water or floodwater.

"Stop work order" means an administrative order issued to temporarily halt construction work until a problem can be resolved.

"Substantially complete" means that a plan, action, or project element requires only minor additions to be complete, and in its present state will perform the necessary functions for its intended use.

"Surficial inspection" means a visual inspection conducted to identify obvious defects or changed conditions.

[Statutory Authority: 1995 c 8. 95-22-030 (Order 94-15), § 173-175-030, filed 10/24/95, effective 11/24/95. Statutory Authority: RCW 43.21A.064, [43.21A].080 and 86.16.061. 93-01-090 (Order 92-35), § 173-175-030, filed 12/16/92, effective 1/16/93; 92-12-055 (Order 91-17), § 173-175-030, filed 6/1/92, effective 7/2/92.]

WAC 173-175-040 Activities that require department review, approval, acceptance, authorization, or notification. (1) Activities related to the safety of dams that require review and approval by the department as detailed in this chapter include:

(a) Construction of a new dam;

(b) Modification of an existing dam;

(c) Removal or abandonment of an existing dam;

(d) Construction change orders for project elements that could have an effect on public safety.

(2) Activities related to the safety of dams that require review and acceptance by the department as detailed in this chapter include:

(a) Adoption of an operation and maintenance (O&M) plan;

(b) Adoption of an emergency action plan (EAP);

(c) Changes to existing operation and maintenance procedures or to an emergency action plan that could have an effect on public safety.

(3) Activities related to the safety of dams that require authorization from the department before proposed actions can proceed include:

(a) Startup of construction: For a new dam; modifications to an existing dam; or removal or abandonment of an existing dam.

(b) Initial controlled filling of a reservoir following new dam construction and implementation of procedures for normal reservoir operation.

(c) Resumption of normal reservoir operation following dam modifications or emergency action.

(4) Activities related to the safety of dams that require a notification to the department as detailed in this chapter include:

(a) Change of dam ownership;

(b) Advance notice of the startup of dam construction;

(c) Declaration by the project engineer of project completion in accordance with the department approved plans and specifications and construction change orders;

(d) Advance notice of periodic inspection; and

(e) The occurrence of an incident at the dam.

[Statutory Authority: RCW 43.21A.064, [43.21A.]080 and 86.16.061. 92-12-055 (Order 91-17), § 173-175-040, filed 6/1/92, effective 7/2/92.]

WAC 173-175-050 Provision of guidelines. The department will develop and maintain *Dam Safety Guidelines* to aid dam owners and project engineers in complying with the department requirements in developing, producing, or conducting:

(1) Engineering design reports;

(2) Plans and specifications;

(3) Construction inspection plans;

(4) Operation and maintenance plans;

(5) Periodic inspections; and

(6) Emergency action plans.

[Statutory Authority: RCW 43.21A.064, [43.21A.]080 and 86.16.061. 92-12-055 (Order 91-17), § 173-175-050, filed 6/1/92, effective 7/2/92.]

WAC 173-175-060 Change of ownership. When a change of ownership of a dam occurs, the new owner shall notify the department within ninety days following the transaction and provide:

(1) The mailing address and telephone number where the owner can be contacted.

(2) The name(s) and telephone number(s) of the individual(s) who will be responsible for operation and maintenance of the dam.

[Statutory Authority: RCW 43.21A.064, [43.21A.]080 and 86.16.061. 92-12-055 (Order 91-17), § 173-175-060, filed 6/1/92, effective 7/2/92.]

WAC 173-175-070 Effective date. The effective date of Parts One through Five of this chapter shall be July 1, 1992.

[Statutory Authority: 1995 c 8. 95-22-030 (Order 94-15), § 173-175-070, filed 10/24/95, effective 11/24/95. Statutory Authority: RCW 43.21A.064, [43.21A].080 and 86.16.061. 93-01-090 (Order 92-35), § 173-175-070, filed 12/16/92, effective 1/16/93; 92-12-055 (Order 91-17), § 173-175-070, filed 6/1/92, effective 7/2/92.]

PART TWO
CONSTRUCTION PERMIT PROCESS

WAC 173-175-100 Construction permit. (1) Any person intending to construct or modify any dam shall, before beginning said construction or modification, submit plans and specifications and a construction inspection plan for review and approval by the department.

(2) The approval of these documents will be indicated by the department's plan approval stamp on the cover sheet of the plans signed by the department's professional engineer who had primary responsibility for the engineering review.

(3) The return of the construction plans to the owner will be accompanied by a construction permit which authorizes construction and which must be prominently displayed at the construction site.

(4) A copy of the department approved plans and specifications shall be maintained at the construction site.

(5) Construction work shall not proceed until the plans, specifications, and construction inspection plan have been approved by the department.

[Statutory Authority: RCW 43.21A.064, [43.21A.]080 and 86.16.061. 92-12-055 (Order 91-17), § 173-175-100, filed 6/1/92, effective 7/2/92.]

WAC 173-175-110 Sequence of permitting actions. The sequence of tasks to be completed by the owner or the project engineer, and the actions taken by the department in permitting dam construction are outlined below. A more complete description of the required tasks, reports, and plans are described in later sections, and additional guidance in meeting department requirements is contained in the department documents titled *Dam Safety Guidelines.* The following outline is listed to give an overview of the normal sequence of actions for construction of a new dam. Subsections (9), (10), and (11) of this section will not be required for modification of an existing dam where the department has previously accepted the project's operation and maintenance plan and emergency action plan.

(1) Submission of application for construction permit, including initial nonrefundable fee payment.

(2) Submission of engineering design report(s).

(3) Submission of plans and specifications.

(4) Payment of construction permit fee.

(5) Submission of construction inspection plan.

(6) Resolution of any outstanding engineering issues.

(7) Department approves plans and specifications and issues construction permit.

(8) Construction or modification of dam.

(9) Submission of operation and maintenance (O&M) plan.

(10) Submission of emergency action plan (EAP).

(11) Department accepts O&M plan and EAP.

(12) Declaration by project engineer that project was constructed or modified in accordance with approved plans and specifications and construction change orders.

(13) Department concurs with project engineer that project was constructed or modified in accordance with approved plans and specifications and construction change orders.

(14) Department authorizes filling of reservoir at new dam or resumption of normal operations at existing dam.

(15) Submission of a report summarizing the construction records.

[Statutory Authority: RCW 43.21A.064, [43.21A.]080 and 86.16.061. 92-12-055 (Order 91-17), § 173-175-110, filed 6/1/92, effective 7/2/92.]

WAC 173-175-120 Application for construction permit. (1) The department shall supply an application form to be used to initiate the process for obtaining the construction permit.

(2) The application form shall be submitted to the department at the time that the first substantive engineering information becomes available about the proposed project.

(3) An initial, nonrefundable payment which may represent all or a portion of the construction permit fee, shall be included along with the application form. The amount of the initial construction permit fee payment is defined in WAC 173-175-390.

[Statutory Authority: RCW 43.21A.064, [43.21A.]080 and 86.16.061. 92-12-055 (Order 91-17), § 173-175-120, filed 6/1/92, effective 7/2/92.]

WAC 173-175-130 Engineering design reports. (1) Engineering design reports summarizing the various engineering investigations and pertinent project information are an important element of the project design documents. All pertinent engineering design reports that have been prepared during project formulation shall be submitted for review. The engineering design report(s) must bear the seal and signature of the project engineer.

(2) The engineering design reports shall be sufficiently complete so as to support the development of plans and specifications without substantial change or additional information.

(3) The engineering design report(s) shall be comprehensive in description of the various engineering investigations.

(a) For new project construction, the engineering design report(s) shall include, as a minimum, the items listed in subsection (4) of this section:

(b) For modifications of existing dams, the engineering design report(s) shall include, as a minimum, those items listed in subsection (4) of this section which represent changed conditions from original construction or which address items that have not been previously addressed in prior reports that were submitted to the department.

(4) Contents of engineering design report(s):

(a) A description of the basic purposes of the project, normal operational characteristics and any unique or important design considerations associated with the site or project configuration.

(b) A description of the site geology, seismicity and geotechnical considerations including: A presentation of the findings from subsurface explorations based on test pits and/or boring logs; field tests; laboratory testing and classification of samples; and an identification of the seismotectonic provinces that could generate earthquakes large enough to significantly affect the project site.

(c) A description of the climatic and hydrologic characteristics of the site and tributary watershed including the computation of the inflow design flood and, where applicable, a listing of the input and output data for the computer model used to determine the inflow design flood.

(d) A listing of all sources of inflow to the reservoir.

(e) The size classification of the proposed project as defined by Table 1.

TABLE 1. DAM SIZE CLASSIFICATION

SIZE CLASSIFICATION	DAM HEIGHT
Small Dam	Less than 15 feet
Intermediate Dam	15 feet or greater but less than 50 feet
Large Dam	50 feet or greater

(f) The reservoir operation classification of the proposed project as defined by Table 2.

TABLE 2. RESERVOIR OPERATION CLASSIFICATION

RESERVOIR OPERATION CLASSIFICATION	DETERMINING FACTOR
Permanent Pool or Seasonal Pool Operation	Steady state seepage or saturated flow conditions occur in impounding barrier and foundation at or near normal pool conditions.
Intermittent Operation	Duration of normal high pool condition is insufficient for steady state seepage or saturated flow conditions to develop in impounding barrier and foundation.

(g) An assessment of the consequences of dam failure on downstream areas, including:

(i) An estimation of the magnitude of the dam break flood hydrographs resulting from hypothetical dam failures occurring with the reservoir at normal storage elevation and maximum storage elevation;

(ii) A general description of the areas downstream of the dam that could be affected by floodwater from a dam failure;

(iii) If there is the potential for loss of life, an inundation map delineating the maximum areal extent of flooding that could be produced by a dam failure. Inundation mapping should extend to a point downstream where the inundation from the dam failure is within the 100-year floodplain for the affected watercourse;

(iv) The downstream hazard classification as defined by Table 3, which reflects the current conditions of development in downstream areas. The most serious potential consequences of failure of those listed in columns 3A, 3B, and 3C shall be used to establish the appropriate downstream hazard classification.

TABLE 3. DOWNSTREAM HAZARD CLASSIFICATION

DOWNSTREAM HAZARD POTENTIAL	DOWNSTREAM HAZARD CLASSIFICATION	COLUMN 3A POPULATION AT RISK	COLUMN 3B ECONOMIC LOSS GENERIC DESCRIPTIONS	COLUMN 3C ENVIRONMENTAL DAMAGES
Low	3	0	Minimal. No inhabited structures. Limited agricultural development.	No deleterious materials in reservoir contents
Significant	2	1 to 6	Appreciable. 1 or 2 inhabited structures. Notable agriculture or work sites. Secondary highway and/or rail lines.	Limited water quality degradation from reservoir contents and only short term consequences.
High	1C	7 to 30	Major. 3 to 10 inhabited structures. Low density suburban area with some industry and work sites. Primary highways and rail lines.	Severe water quality degradation potential from reservoir contents and long term effects on aquatic and human life.
High	1B	31-300	Extreme. 11 to 100 inhabited structures. Medium density suburban or urban area with associated industry, property and transportation features.	
High	1A	More than 300	Extreme. More than 100 inhabited structures. Highly developed, densely populated suburban or urban area with associated industry, property, transportation and community life line features.	

(h) Engineering calculations and data supporting the detailed design of project elements. This would include, as a minimum:

(i) The design step levels used in design of the various critical project elements, based on guidance contained in the department's *Dam Safety Guidelines;*

(ii) Stability analyses corroborating the design of the proposed embankment/barrier section under static and seismic loadings and rapid drawdown conditions;

(iii) Calculations for the design of any hydraulic structures, which are subject to high lateral earth pressures, relatively large seismic loads and/or uplift pressures;

(iv) Computations for sizing the principal and emergency spillway, including, where applicable, reservoir routing computations defining the reservoir inflow and outflow design flood hydrographs.

[Statutory Authority: RCW 43.21A.064, [43.21A.]080 and 86.16.061. 92-12-055 (Order 91-17), § 173-175-130, filed 6/1/92, effective 7/2/92.]

WAC 173-175-140 Plans and specifications. (1) Two copies of the plans and specifications, bearing the seal and signature of the project engineer, shall be submitted to the department for engineering review. Upon approval, one copy will be retained by the department and the other copy will be returned to the owner or the project engineer.

(2) For large or complex projects, one copy of the preliminary or intermediate level plans, in addition to the final plans, shall be submitted to the department for review.

(3) To be approved, the plans and specifications must contain sufficient detail to describe the proposed construction work.

(a) The following items, as a minimum, shall be included as part of the construction plans:

(i) Project location and vicinity maps;

(ii) Site map of dam, reservoir area, and appurtenances;

(iii) Sectional view along longitudinal axis of dam and foundation;

(iv) Cross-sectional view of dam at location of maximum height;

(v) Cross-sectional views and profiles of spillway(s), outlet facilities, and other appurtenances;

(vi) Steel reinforcement placement and bar sizing for concrete construction must be shown in at least one section or profile; and

(vii) The plan for diversion and control of water during construction.

(b) The following items, as a minimum, shall be included as part of the construction specifications:

(i) Type, class, or description of all materials to be used;

(ii) The requirements for fill placement, moisture conditioning, and minimum level of compaction of all earthen zones;

(iii) The requirements, procedures, and minimum standards for concrete construction and/or structural details.

[Statutory Authority: RCW 43.21A.064, [43.21A.]080 and 86.16.061. 92-12-055 (Order 91-17), § 173-175-140, filed 6/1/92, effective 7/2/92.]

WAC 173-175-150 Construction permit fee. There is a fee for the review of plans and specifications and for construction inspections conducted by the department. The amount of the fee and owner requirements for fee payment are contained in WAC 173-175-350 through 173-175-400.

[Statutory Authority: RCW 43.21A.064, [43.21A.]080 and 86.16.061. 92-12-055 (Order 91-17), § 173-175-150, filed 6/1/92, effective 7/2/92.]

WAC 173-175-160 Review standards. The department will review engineering design reports, plans, and specifications and the construction inspection plan to ascertain that the proposed project will be designed and constructed in a manner which will reasonably secure safety to life and property.

(1) The department's review is intended to address issues of safety directly related to the structural stability and integrity of the completed project. The review is not intended to extend to more general issues of safety not directly related to the structural stability and integrity of the project which are the purview of other governmental agencies such as the Washington department of labor and industries (L&I), which administers the Washington Industrial Safety and Health Act (WISHA).

(2) In addition to the above, the department will review documents submitted pursuant to this chapter to ascertain that they conform to accepted engineering and construction practice and are in conformance with guidance contained in the department's *Dam Safety Guidelines.*

(3) Those elements of a document(s) which are found not to be in conformance with the above will be identified to the owner or the project engineer and changes may be required as appropriate to conform to accepted engineering practice.

(4) Where differences of opinion arise on the suitability of certain engineering or construction practices and cannot be readily resolved, the burden of proof will rest on the owner and the project engineer to demonstrate the suitability of the proposed plan or action.

[Statutory Authority: RCW 43.21A.064, [43.21A.]080 and 86.16.061. 92-12-055 (Order 91-17), § 173-175-160, filed 6/1/92, effective 7/2/92.]

WAC 173-175-170 Construction inspection plan. (1) A detailed plan shall be submitted to the department describing how adequate and competent construction inspection will be provided.

(2) The construction inspection plan shall be prepared by a professional engineer and shall bear his/her seal and signature.

(3) The construction inspection plan shall include, as a minimum:

(a) A listing of construction activities related to critical project elements and planned inspection effort including staffing levels, responsibilities, frequency, and duration of site visits;

(b) A description of the quality assurance testing program which describes the type of test, general frequency, acceptable results, handling of deficient materials, and the individual(s) responsible for overseeing the testing;

(c) Description of construction management organization, lines of communication, and responsibilities;

(d) Description of the change order process including who is responsible for coordinating the change order review process with the department;

(e) Description of the technical records handling and the content and frequency of construction progress reports.

[Statutory Authority: RCW 43.21A.064, [43.21A.]080 and 86.16.061. 92-12-055 (Order 91-17), § 173-175-170, filed 6/1/92, effective 7/2/92.]

WAC 173-175-180 Issuance of construction permit. (1) After the department has determined that the plans and specifications and construction inspection plan conform to accepted engineering practice, these documents will be approved and a construction permit will be issued which authorizes construction to commence.

Construction shall not commence until the construction permit has been issued by the department.

Preliminary work such as mobilization of equipment, stripping and grubbing and other site access and preparation work is allowed prior to receipt of the construction permit, provided no permanent features of the dam are initiated.

(2) Receipt of the construction permit does not relieve the owner of the responsibility to secure all other applicable permits and approvals before proceeding with construction work.

[Statutory Authority: RCW 43.21A.064, [43.21A.]080 and 86.16.061. 92-12-055 (Order 91-17), § 173-175-180, filed 6/1/92, effective 7/2/92.]

WAC 173-175-190 Construction change orders. (1) All dam projects subject to the provisions of this regulation shall be constructed in accordance with the plans and specifications approved by the department. Any proposed changes to the department-approved plans which could have an effect on structural integrity or safe operations of the project must first be presented to the department for a determination if an approval is required.

(2) If the department determines that the proposed construction change order represents a significant modification of the approved plans or specifications that could have an effect on structural integrity or safe operations of the project, then approval of the change order will be required.

The department will review the construction change order and provide a response to the project engineer in a timely manner consistent with the complexity and safety concerns of the situation.

(3) If department approval of the proposed construction change order is required, no action can be taken by the owner to make the construction change until approval is given by the department.

[Statutory Authority: RCW 43.21A.064, [43.21A.]080 and 86.16.061. 92-12-055 (Order 91-17), § 173-175-190, filed 6/1/92, effective 7/2/92.]

WAC 173-175-200 Department role in construction inspection. (1) It will be the department's role during construction to confirm that the project engineer, as representative for the owner, is properly implementing the department approved construction inspection plan.

(2) The department will periodically observe the construction work to independently confirm that conditions assumed in the design stage are valid for field conditions and that construction is proceeding in accordance with the approved plans and specifications.

(3) Changes may be required by the department to be made to the approved plans and specifications to reasonably secure safety to life and property. Reasons for changes may include, but are not limited to the following:

(a) To address unanticipated field conditions;

(b) To correct omissions or errors in the approved plans and specifications;

(c) To correct situations where the construction work clearly is not being performed in a workmanlike manner and does not, in the opinion of the department, meet the performance intent of the specifications.

(4) Where deemed necessary by the department, a stop work order may be issued to temporarily halt construction until a problem can be resolved.

[Statutory Authority: RCW 43.21A.064, [43.21A.]080 and 86.16.061. 92-12-055 (Order 91-17), § 173-175-200, filed 6/1/92, effective 7/2/92.]

WAC 173-175-210 Operation and maintenance plan. (1) An operation and maintenance (O&M) plan shall be developed and submitted to the department for review and acceptance. The O&M plan shall outline and summarize how the project is to be operated and how the basic elements of monitoring, inspection and maintenance, as listed in WAC 173-175-500(1), are to be accomplished.

The department may issue an acceptance after determining the O&M plan is substantially complete.

(2) Owners are responsible for incorporating the details of the O&M plan into an O&M manual suitable for use by dam operators. Requirements associated with O&M manuals are listed in WAC 173-175-500.

[Statutory Authority: RCW 43.21A.064, [43.21A.]080 and 86.16.061. 92-12-055 (Order 91-17), § 173-175-210, filed 6/1/92, effective 7/2/92.]

WAC 173-175-220 Emergency action plan. In those cases where a failure of the dam could pose a risk to life based on the current level of development in downstream areas (downstream hazard classes 1A, 1B, 1C, and 2, WAC 173-175-130), an emergency action plan (EAP) shall be developed and submitted to the department for review and acceptance. The purpose of the plan is to establish procedures for responding to unusual or emergency situations and procedures for detecting, evaluating, communicating and initiating notification or warning to individuals who may be at risk in downstream/upstream areas. Requirements associated with EAP's are listed in WAC 173-175-520.

The department may issue an acceptance after determining the EAP is substantially complete.

[Statutory Authority: RCW 43.21A.064, [43.21A.]080 and 86.16.061. 92-12-055 (Order 91-17), § 173-175-220, filed 6/1/92, effective 7/2/92.]

WAC 173-175-230 Declaration of construction completion. Within thirty days following substantial completion of construction or modification of a dam, the project engineer shall submit to the department:

A declaration stating the project was constructed in accordance with the department approved plans and specifications and construction change orders.

The department will provide a declaration form which may be used or altered, as appropriate, by the project engineer.

[Statutory Authority: RCW 43.21A.064, [43.21A.]080 and 86.16.061. 92-12-055 (Order 91-17), § 173-175-230, filed 6/1/92, effective 7/2/92.]

WAC 173-175-240 Authorization to commence or resume project operation. (1) Upon receipt of the project engineer's declaration of construction completion, the department will authorize the owner or the project engineer, as appropriate, to commence or resume normal project operation, provided that:

(a) The department concurs with the project engineer that the project was constructed in accordance with the approved plans and specifications and construction change orders;

(b) The proposed O&M plan is acceptable to the department;

(c) The proposed emergency action plan, if required (see WAC 173-175-220), is acceptable to the department.

(2) If the above conditions are not met, the owner shall not commence or resume normal operation of the project until all outstanding issues or problems are resolved. When outstanding issues or problems are not resolved in a timely manner, the department may:

(a) Order the outlet works to remain fully open and not allow filling of the reservoir;

(b) Restrict reservoir water levels or reservoir operation;

(c) Order the breaching of the impounding barrier;

(d) Take other measures as appropriate to reasonably secure safety to life and property.

[Statutory Authority: RCW 43.21A.064, [43.21A.]080 and 86.16.061. 92-12-055 (Order 91-17), § 173-175-240, filed 6/1/92, effective 7/2/92.]

WAC 173-175-250 Construction records summary. Within one hundred twenty days following completion of construction or modification of a dam, the project engineer, as representative of the owner, shall submit a report to the department on construction activities which includes:

(1) A summary of results from field testing of materials used in construction. The summary shall identify both representative values and the range of test values;

(2) A discussion of any notable items encountered during construction;

(3) One complete set of drawings describing the as-built condition of the dam.

[Statutory Authority: RCW 43.21A.064, [43.21A.]080 and 86.16.061. 92-12-055 (Order 91-17), § 173-175-250, filed 6/1/92, effective 7/2/92.]

WAC 173-175-260 Exceptions to construction permit process. If the department determines that emergency or exigency conditions exist at a dam and that it is in the best interests of public safety to expedite the construction or modification of a dam, the department may elect to temporarily suspend the normal construction permit process. To allow this exception, the department will issue a written conditional construction permit, which:

(1) May initially be oral;

(2) Will specify the construction activities to be allowed;

(3) May be terminated at a time deemed appropriate by the department;

(4) Shall incorporate, to the extent possible, and not inconsistent with the situation, all applicable requirements of this chapter.

[Statutory Authority: RCW 43.21A.064, [43.21A.]080 and 86.16.061. 92-12-055 (Order 91-17), § 173-175-260, filed 6/1/92, effective 7/2/92.]

WAC 173-175-270 Department review response time. In reviewing the various documents required in the construction permit process, the department shall respond in

a timely manner to the owner or project engineer with written review comments, approval, or acceptance as appropriate.

If the department response is anticipated to occur sixty days or more beyond the date of receipt of the document(s), the department shall notify the owner and/or project engineer in writing and advise them of the expected response date.

[Statutory Authority: RCW 43.21A.064, [43.21A.]080 and 86.16.061. 92-12-055 (Order 91-17), § 173-175-270, filed 6/1/92, effective 7/2/92.]

PART THREE
CONSTRUCTION PERMIT FEES

WAC 173-175-350 Authority for construction permit fees. It is required by RCW 90.03.470(9) that fees be collected by the department for the examination of plans and specifications. The fee shall be a minimum of ten dollars or the actual cost. In addition, the department is required by RCW 43.21A.064(2) to inspect the construction of all dams. It is required by RCW 90.03.470(8) that fees be collected for the actual cost to the department for inspection including the expense incident thereto.

[Statutory Authority: RCW 43.21A.064, [43.21A.]080 and 86.16.061. 92-12-055 (Order 91-17), § 173-175-350, filed 6/1/92, effective 7/2/92.]

WAC 173-175-360 Construction permit fees for new project construction. Fees for the review of plans and specifications and for construction inspection for new project construction shall be the amounts shown in Table 4 as determined by the nearest values of dam height and crest length, in feet, which correspond to the project's planned dam height and crest length.

[Statutory Authority: RCW 43.21A.064, [43.21A.]080 and 86.16.061. 92-12-055 (Order 91-17), § 173-175-360, filed 6/1/92, effective 7/2/92.]

WAC 173-175-370 Construction permit fees for modifications of existing dams. (1) Fees for the review of plans and specifications and for construction inspections for project modifications involving significant enlargements shall be the greater of five hundred dollars or the amount determined by those applicable percentages shown in Table 5A of the fees in Table 4. The appropriate Table 4 fee amount is to be determined using the nearest values of dam height and crest length, in feet, which correspond to the overall dimensions of the modified dam.

TABLE 4. CONSTRUCTION PERMIT FEES - NEW PROJECT CONSTRUCTION

DAM HEIGHT (FEET)	DAM CREST LENGTH (FEET)															
	50	100	150	200	250	300	350	400	500	600	700	800	1000	1500	2000	4000
400	15810	17640	18320	18730	19060	19320	19540	19730	20000	20000	20000	20000	20000	20000	20000	20000
300	13680	16220	17320	17890	18240	18500	18720	18920	19240	19500	19720	19920	20000	20000	20000	20000
250	12150	15100	16370	17190	17620	17980	18210	18400	18720	18990	19210	19400	19720	20000	20000	20000
200	10100	13260	15000	15890	16610	17130	17420	17690	18090	18350	18570	18770	19090	19670	20000	20000
180	8930	12370	14090	15250	15940	16530	17030	17280	17720	18060	18280	18470	18790	19380	19790	20000
160	7730	11390	13140	14340	15230	15790	16280	16720	17270	17620	17930	18140	18460	19050	19460	20000
150	7150	10840	12590	13800	14770	15400	15880	16310	17030	17380	17680	17950	18280	18870	19280	20000
140	6570	10080	12000	13250	14180	14990	15460	15880	16600	17120	17420	17680	18090	18670	19090	20000
130	6010	9260	11400	12620	13570	14340	15020	15430	16130	16720	17140	17400	17830	18460	18880	19880
120	5450	8400	10670	11950	12930	13680	14340	14930	15630	16210	16720	17090	17530	18240	18650	19650
110	4900	7560	9740	11250	12180	12990	13620	14180	15120	15680	16170	16600	17200	18000	18410	19410
100	4370	6740	8680	10300	11400	12170	12850	13410	14350	15110	15580	16000	16730	17630	18140	19140
95	4110	6330	8160	9760	11010	11740	12410	13010	13920	14720	15280	15690	16400	17430	18000	19000
90	3850	5930	7640	9140	10410	11320	11950	12530	13490	14260	14940	15360	16060	17230	17790	18320
85	3590	5530	7130	8530	9800	10820	11490	12050	13040	13780	14450	15030	15710	17020	17320	17320
80	3340	5140	6630	7930	9120	10160	11020	11560	12510	13300	13940	14520	15350	16320	16320	16320
75	3090	4760	6130	7340	8440	9460	10320	11060	11970	12780	13420	13980	14960	15320	15320	15320
70	2840	4380	5640	6750	7770	8700	9580	10320	11420	12190	12870	13430	14320	14320	14320	14320
65	2600	4010	5160	6180	7100	7960	8770	9530	10780	11580	12240	12830	13320	13320	13320	13320
60	2360	3640	4690	5610	6450	7230	7970	8660	9930	10950	11590	12150	12320	12320	12320	12320
55	2130	3280	4230	5060	5820	6520	7180	7800	8970	10010	10880	11320	11320	11320	11320	11320
50	1900	2930	3770	4520	5190	5820	6410	6960	8010	8970	9860	10320	10320	10320	10320	10320
46	1720	2650	3420	4090	4700	5270	5800	6310	7250	8120	8950	9520	9520	9520	9520	9520
42	1540	2380	3070	3670	4220	4730	5210	5660	6510	7290	8030	8720	8720	8720	8720	8720
38	1370	2110	2720	3260	3750	4200	4630	5030	5780	6480	7130	7760	7920	7920	7920	7920
34	1200	1860	2390	2860	3290	3690	4060	4410	5070	5680	6260	6800	7120	7120	7120	7120
30	1040	1600	2060	2470	2840	3180	3500	3810	4380	4910	5400	5870	6320	6320	6320	6320
28	960	1480	1900	2280	2620	2940	3230	3510	4040	4530	4980	5420	5920	5920	5920	5920
26	880	1360	1750	2090	2400	2690	2960	3220	3700	4150	4570	4970	5520	5520	5520	5520
24	820	1230	1590	1900	2190	2450	2700	2940	3380	3780	4170	4530	5120	5120	5120	5120
22	770	1120	1440	1720	1980	2220	2440	2660	3050	3420	3770	4090	4710	4720	4720	4720
20	710	1000	1290	1540	1770	1990	2190	2380	2730	3070	3370	3670	4220	4320	4320	4320
18	660	890	1140	1370	1570	1760	1940	2110	2420	2720	2990	3250	3740	3920	3920	3920
16	610	800	1000	1200	1370	1540	1700	1840	2120	2370	2620	2840	3270	3520	3520	3520
15	590	770	930	1110	1280	1430	1580	1710	1970	2210	2430	2640	3040	3320	3320	3320
14	570	730	860	1030	1180	1320	1460	1580	1820	2040	2250	2440	2810	3120	3120	3120
13	550	690	810	950	1090	1220	1340	1460	1680	1880	2070	2250	2580	2920	2920	2920
12	540	650	770	870	1000	1110	1230	1330	1530	1720	1890	2060	2360	2720	2720	2720
11	530	620	720	810	910	1010	1110	1210	1390	1560	1720	1870	2150	2520	2520	2520
10	520	590	670	760	830	910	1000	1090	1250	1400	1550	1680	1930	2320	2320	2320

TABLE 4. CONSTRUCTION PERMIT FEES - NEW PROJECT CONSTRUCTION

DAM HEIGHT (FEET)	DAM CREST LENGTH (FEET)															
	50	100	150	200	250	300	350	400	500	600	700	800	1000	1500	2000	4000
9	510	560	630	700	770	830	900	970	1120	1250	1380	1500	1720	2120	2120	2120
8	500	540	590	640	710	760	810	860	980	1100	1210	1320	1510	1920	1920	1920
7	500	520	550	600	640	690	740	780	850	950	1050	1140	1310	1690	1720	1720
6	500	510	530	560	590	630	660	700	770	820	890	970	1110	1430	1520	1520
5	500	500	510	530	550	570	600	620	680	730	780	820	920	1180	1320	1320

(2) Fees for the review of plans and specifications and for construction inspection for project modifications not involving significant enlargements shall be the greater of five hundred dollars or the amount determined by those applicable percentages shown in Table 5B of the fees in Table 4. The appropriate Table 4 fee amount is to be determined using the nearest values of dam height and crest length, in feet, which correspond to the overall dimensions of the modified dam.

(3) Fees for the review of plans and specifications and for construction inspection for the removal or partial removal of a dam with safety deficiencies for the purpose of eliminating a public safety hazard shall be the minimum fee of ten dollars.

(4) Fees for the review of plans and specifications and for construction inspection for the planned abandonment and reclamation of dams and reservoir areas used in mining operations shall be the minimum fee of five hundred dollars.

TABLE 5. FEES FOR MODIFICATIONS OF DAMS

MODIFICATION FEE AS PERCENTAGE OF FEE FOR NEW DAM CONSTRUCTION

FEATURES MODIFIED	TABLE 5A MODIFICATIONS INVOLVING SIGNIFICANT ENLARGEMENTS	TABLE 5B MODIFICATIONS NOT INVOLVING SIGNIFICANT ENLARGEMENTS
Spillway(s)	35%	25%
Impounding Barrier	35%	25%
Appurtenant Works and Miscellaneous Construction Elements	10%	10%

[Statutory Authority: RCW 43.21A.064, [43.21A.]080 and 86.16.061. 92-12-055 (Order 91-17), § 173-175-370, filed 6/1/92, effective 7/2/92.]

WAC 173-175-380 Maintenance. It will not be necessary to submit plans and specifications for review for routine maintenance, normal replacement, or repair of items to keep them in a serviceable condition, seasonal removal, or replacement of stoplogs, or other similar minor operational activities.

[Statutory Authority: RCW 43.21A.064, [43.21A.]080 and 86.16.061. 92-12-055 (Order 91-17), § 173-175-380, filed 6/1/92, effective 7/2/92.]

WAC 173-175-390 Payment of construction permit fees. (1) The amount of the construction permit fee will be determined by the department based upon procedures contained in WAC 173-175-360 and 173-175-370 and information contained in the construction plans.

(a) An initial payment, which may represent all or a portion of the construction permit fee shall be paid in conjunction with the submittal of the construction permit application described in WAC 173-175-120. The amount of the initial payment shall be:

(i) Ten dollars for the removal of a dam with safety deficiencies as described in WAC 173-175-370(3); or

(ii) Five hundred dollars for construction of a new dam or modification of an existing dam or project.

(b) The balance of the fee amount (less the initial payment above) is to be paid following notification by the department of the balance due.

(c) All fees collected are nonrefundable.

(2) No fee shall be required for the review of conceptual plans which describe proposed repairs or improvements to existing dams to correct safety deficiencies. The normal construction permit process will apply at the time plans and specifications are submitted to the department.

(3) No additional fees shall be required for plan and specification changes and resubmittals required by the department as part of the review process.

(4) No additional fees shall be required for review of construction change orders.

[Statutory Authority: 1995 c 8. 95-22-030 (Order 94-15), § 173-175-390, filed 10/24/95, effective 11/24/95. Statutory Authority: RCW 43.21A.064, [43.21A].080 and 86.16.061. 93-01-090 (Order 92-35), § 173-175-390, filed 12/16/92, effective 1/16/93; 92-12-055 (Order 91-17), § 173-175-390, filed 6/1/92, effective 7/2/92.]

WAC 173-175-400 Cost of expert opinion. In resolving differences of opinion on engineering issues between the department and project engineer or owner, it may be necessary for the department to employ an expert in dam design, analysis or construction.

(1) The expert who is chosen, the assigned tasks, and the estimated cost for the expert's services shall be determined by negotiation between the owner and the department.

(2) The cost associated with employing the expert shall be paid by the owner of the proposed or existing project.

[Statutory Authority: RCW 43.21A.064, [43.21A.]080 and 86.16.061. 92-12-055 (Order 91-17), § 173-175-400, filed 6/1/92, effective 7/2/92.]

PART FOUR
PROJECT OPERATION

WAC 173-175-500 Operation and maintenance. (1) The owner shall develop and maintain a current operation and maintenance (O&M) manual.

The manual shall describe procedures for operation of the project under normal and extreme reservoir inflow conditions and provide technical guidance and procedures for monitoring, inspection, and long-term maintenance. Information on the development of the O&M manual is contained in the department's *Dam Safety Guidelines.* The O&M manual shall include, as a minimum, the following items:

(a) Identification of the individual(s) responsible for implementing the plan;

(b) A project data sheet describing the pertinent features of the dam and reservoir, including the spillway(s), outlet works, and appurtenant structures and their locations at the dam site;

(c) The rules and procedures (rule curve) used to regulate reservoir levels and project operation for various reservoir inflows and for both normal and unusual seasonal conditions;

(d) A description of each hydraulic element used to regulate or release water, including information on proper operation and scheduled maintenance;

(e) A listing of the items requiring periodic monitoring, the frequency of monitoring and procedures for monitoring, measurement, and recordkeeping;

(f) A listing of the items requiring periodic maintenance and procedures for conducting and documenting maintenance and recording of problems;

(g) A listing of items to be inspected or test operated, the frequency and procedures for conducting the same and for documenting the findings.

(2) It shall be the duty and responsibility of the owner to, at all times, operate and maintain the dam and all appurtenant works in a safe manner and condition and follow the method and schedule of operation of the dam as outlined in the O&M manual.

(3) For dams constructed before July 1, 1992, owners are required to develop an O&M manual by December 31, 1997.

In those cases where a failure of the dam could pose a threat to life (downstream hazard classes 1A, 1B, 1C, and 2), the O&M manual shall be submitted to the department for review and acceptance.

(4) Any proposed changes to the O&M manual which could have an effect on public or project safety must be submitted to the department for review and acceptance before implementation.

[Statutory Authority: RCW 43.21A.064, [43.21A.]080 and 86.16.061. 92-12-055 (Order 91-17), § 173-175-500, filed 6/1/92, effective 7/2/92.]

WAC 173-175-510 Inspection. (1) Owners are required to evaluate the safety of their dam(s) and all appurtenant works and to make modifications, as become necessary, to reasonably secure safety to life and property. To accomplish this, owners are:

(a) Required to conduct annual surficial inspections and to maintain records of their findings, including records of actions taken to correct problem conditions. Copies of such records shall be provided to the department upon request.

The annual surficial inspections may be conducted by the owner or by agent(s) designated by the owner.

(b) Encouraged to implement a program for the periodic inspection of their project(s) on a five-year frequency to be conducted by a professional engineer.

(c) Required to notify the department at least thirty days in advance of when periodic inspections are scheduled to allow department engineers to participate in the inspection.

(d) Required to submit a copy of the engineering report(s) and other documents which contain the findings, conclusions, and recommendations resulting from the periodic inspection within thirty days following the completion of the various documents.

(2) In order to correct safety deficiencies and exigency conditions, owners are required to take actions and make modifications as prescribed by the department to preserve the structural stability and integrity of the project and attain levels of safety in accordance with accepted engineering practice.

(3) The department may elect to conduct periodic inspections of particular projects to reasonably secure safety to life and property.

(a) The department will give at least thirty days advance notice of the date of the periodic inspection and advise the owner of any requirements such as gates or valves that are to be operated during the inspection.

(b) Owners are required to develop an Operation and maintenance manual (WAC 173-175-500) and an Emergency action plan (WAC 173-175-520) within one hundred eighty days following completion of a periodic inspection conducted by the department.

[Statutory Authority: RCW 43.21A.064, [43.21A.]080 and 86.16.061. 92-12-055 (Order 91-17), § 173-175-510, filed 6/1/92, effective 7/2/92.]

WAC 173-175-520 Emergency action. (1) In those cases where a failure of the dam could pose a threat to life (downstream hazard classes 1A, 1B, 1C, and 2), the owner shall develop and maintain an emergency action plan (EAP) acceptable to the department.

(a) The EAP shall describe procedures for responding to unusual or emergency situations and procedures for detecting, evaluating, communicating, and initiating notification or warning of individuals who may be at risk in downstream and upstream areas. Information on the development of an EAP is contained within the department's *Dam Safety Guidelines.*

(b) It shall be the duty and responsibility of the owner to implement the EAP when conditions warrant and to follow the method and schedule contained within the EAP.

(c) For dams constructed before July 1, 1992, owners are required to develop an EAP and to submit it to the department for review and acceptance by December 31, 1997.

(i) Owners are required to coordinate the development of the EAP with representatives from the local emergency services staff, state department of community development, emergency management division, and appropriate local authorities.

(ii) Copies of the completed EAP must be provided to the state emergency management division, local emergency services office, and to the department.

(2) Any proposed changes to the EAP which could have an affect on public or project safety must be submitted to the department for review and acceptance before implementation.

(3) Owners are required to exercise components of the EAP as needed to confirm the viability of the plan.

(4) The department will coordinate and solicit review comments from the local emergency services office and the state emergency management division on the acceptability of proposed EAPs. Those comments will constitute the primary basis for accepting or requesting modifications to a proposed EAP.

[Statutory Authority: RCW 43.21A.064, [43.21A.]080 and 86.16.061. 92-12-055 (Order 91-17), § 173-175-520, filed 6/1/92, effective 7/2/92.]

WAC 173-175-530 Reporting of incidents. Owners are required to notify the department when incidents occur or when problems or conditions arise which may pose a threat to life or property or a threat to the integrity of the dam.

(1) The owner shall report by telephone to the department on any condition affecting the safety of the project or when an incident has occurred. The initial oral report must be made as soon as practicable after the condition is discovered or following any incident.

(2) A written report may be required by the department within thirty days following the discovery of the condition or after the incident. The report shall describe the condition affecting the safety of the project or the incident which has occurred and shall describe the preliminary plans for correcting the condition and for preventing the recurrence of a similar incident.

[Statutory Authority: RCW 43.21A.064, [43.21A.]080 and 86.16.061. 92-12-055 (Order 91-17), § 173-175-530, filed 6/1/92, effective 7/2/92.]

PART FIVE
COMPLIANCE AND ENFORCEMENT

WAC 173-175-600 Right of entry. The department or its duly appointed agent(s) shall have the right to enter at all reasonable times in or upon property, public or private, for the purpose of inspecting and investigating conditions relating to the construction, operation, maintenance or performance of dams. The department shall comply with the owner's reasonable rules for access to the project.

[Statutory Authority: RCW 43.21A.064, [43.21A.]080 and 86.16.061. 92-12-055 (Order 91-17), § 173-175-600, filed 6/1/92, effective 7/2/92.]

WAC 173-175-610 Emergencies. (1) When, in the opinion of the department, an emergency condition exists which poses an imminent threat to life, the department may take such action as necessary to eliminate or mitigate the hazard and potential consequences. The dam owner or the owner's agent(s) may be directed to take actions, and if that failing, the department may take control of the project and take actions, including, but not limited to:

(a) Altering the operation of the project;

(b) Lowering the reservoir water level;

(c) Draining the reservoir;

(d) Making emergency repairs or modifications to the project;

(e) Enlisting the services of federal, state, or local authorities to make emergency repairs or modifications to the project;

(f) Breaching the dam.

(2) All costs incurred by the department as a result of taking control of the project will be charged to the owner.

[Statutory Authority: RCW 43.21A.064, [43.21A.]080 and 86.16.061. 92-12-055 (Order 91-17), § 173-175-610, filed 6/1/92, effective 7/2/92.]

WAC 173-175-620 Enforcement. (1) In enforcement of this chapter, the department may impose such sanctions as appropriate under authorities vested in it, including but not limited to, the issuance of regulatory orders under RCW 86.16.081 and 43.27A.190 and civil penalties under RCW 86.16.081 and 90.03.600.

(2) Any dam which is found to be under construction or recently constructed without prior approval of the plans and specifications is in violation of RCW 90.03.350 and will be presumed to be a public nuisance. The owner will not be allowed to fill the reservoir or continue to operate the reservoir until the structural integrity and safety of the facility can be demonstrated to the satisfaction of the department. In addition:

(a) Regulatory orders may be issued to enforce the restriction of reservoir filling and fines may be levied at one hundred dollars per day up to an amount equal to one hundred fifty percent of the amount the owner would have been charged under the construction permit fee schedule listed in this chapter;

(b) Owners are required to submit as-built drawings and all available documentation describing the manner in which the dam or portion thereof was constructed;

(c) If the structural integrity and safety of a dam project cannot be demonstrated or confirmed to the satisfaction of the department, the owner shall not commence or resume normal operation of the project until all outstanding issues or problems are resolved to the satisfaction of the department. To accomplish the above, the department may:

(i) Order the outlet works to remain fully open and not allow filling of the reservoir;

(ii) Restrict reservoir water levels or reservoir operation;

(iii) Order the breaching of the impounding barrier;

(iv) Take other measures as appropriate to reasonably assure safety to life and property.

(d) If, in the opinion of the department, the owner is unwilling or incapable of resolving the outstanding safety issues in a timely manner, the department may take action to have the dam abated as prescribed by law under RCW 90.03.350.

[Statutory Authority: RCW 43.21A.064, [43.21A.]080 and 86.16.061. 92-12-055 (Order 91-17), § 173-175-620, filed 6/1/92, effective 7/2/92.]

WAC 173-175-630 Appeals. All final written decisions of the department pertaining to permits, regulatory orders, and related decisions made pursuant to this chapter shall be subject to review by the pollution control hearings board in accordance with chapter 43.21B RCW.

[Statutory Authority: RCW 43.21A.064, [43.21A.]080 and 86.16.061. 92-12-055 (Order 91-17), § 173-175-630, filed 6/1/92, effective 7/2/92.]

Chapter 173-180A WAC
FACILITY OIL-HANDLING OPERATIONS AND DESIGN STANDARDS

WAC

173-180A-010	Purpose.
173-180A-020	Authority.
173-180A-030	Definitions.
173-180A-040	Applicability.
173-180A-050	Compliance schedule.
173-180A-060	Vessel transfer requirements.
173-180A-070	Transmission pipeline transfer requirements.
173-180A-080	Secondary containment requirements for aboveground storage tanks.
173-180A-090	Storage tank requirements.

173-180A-100 Transfer pipeline requirements.
173-180A-110 Inspections.
173-180A-120 Recordkeeping.
173-180A-130 Noncompliance.
173-180A-140 Rule review.
173-180A-150 Severability.

WAC 173-180A-010 Purpose. The purpose of this rule is to establish facility operations and design standards which, when followed, will:

(1) Prevent oil and petroleum spills from occurring;

(2) Ensure that facilities are designed and operated in a manner which will provide the best achievable protection of the public health and the environment;

(3) Provide improved protection of Washington waters and natural resources from the impacts of oil spills caused by improper oil-handling equipment design and operations.

[Statutory Authority: RCW 90.56.220. 94-10-084, § 173-180A-010, filed 5/4/94, effective 6/4/94.]

WAC 173-180A-020 Authority. RCW 90.56.220 provides statutory authority for developing operations and design standards and implementing a compliance program established by this chapter.

[Statutory Authority: RCW 90.56.220. 94-10-084, § 173-180A-020, filed 5/4/94, effective 6/4/94.]

WAC 173-180A-030 Definitions. "Appropriate person" means a person designated by the facility as being competent and trained to implement a designated function.

"Best achievable protection" means the highest level of protection that can be achieved through the use of the best achievable technology and those staffing levels, training procedures, and operational methods that provide the greatest degree of protection available. The director's determination of best achievable protection shall be guided by the critical need to protect the state's natural resources and waters, while considering: The additional protection provided by the measures; the technological achievability of the measures; and the cost of the measures.

"Best achievable technology" means the technology that provides the greatest degree of protection taking into consideration: Processes that are being developed, or could feasibly be developed, given overall reasonable expenditures on research and development; and processes that are currently in use. In determining what is best achievable technology, the director shall consider the effectiveness, engineering feasibility, and commercial availability of the technology.

"Board" means the pollution control hearings board.

"Bulk" means material that is stored or transported in a loose, unpackaged liquid, powder, or granular form capable of being conveyed by a pipe, bucket, chute, or belt system.

"Cargo vessel" means a self-propelled ship in commerce, other than a tank vessel or a passenger vessel, greater than three hundred or more gross tons, including but not limited to, commercial fish processing vessels and freighters.

"Covered vessel" means a tank vessel, cargo vessel, or passenger vessel.

"Department" means the department of ecology.

"Directly impact" means without treatment.

"Director" means the director of the department of ecology.

"Discharge" means any spilling, leaking, pumping, pouring, emitting, emptying, or dumping.

"Emergency shutdown" means a deliberate stoppage of equipment or facility operation under circumstances requiring immediate action to prevent or reduce loss of life, injury, oil spills or significant damage to or loss of property or environmental values.

Facility:

"Facility" means any structure, group of structures, equipment, pipeline, or device, other than a vessel, located on or near the navigable waters of the state that transfers oil in the bulk to or from a tank vessel or pipeline, that is used for producing, storing, handling, transferring, processing, or transporting oil in bulk.

A facility does not include any: Railroad car, motor vehicle, or other rolling stock while transporting oil over the highways or rail lines of this state; underground storage tank regulated by the department or a local government under chapter 90.76 RCW; a motor vehicle motor fuel outlet; a facility that is operated as part of an exempt agricultural activity as provided in RCW 82.04.330; or a marine fuel outlet that does not dispense more than three thousand gallons of fuel to a ship that is not a covered vessel, in a single transaction.

"Facility person in charge" means the person designated under the provisions of 33 CFR 154.710.

"Navigable waters of the state" means those waters of the state, and their adjoining shorelines, that are subject to the ebb and flow of the tide and/or are presently used, have been used in the past, or may be susceptible for use to transport intrastate, interstate, or foreign commerce.

"Immediate threat" means threat which could cause loss of life, reduce safety or adversely impact waters of the state or environment.

"Oil" or "oils" means naturally occurring liquid hydrocarbons at atmospheric temperature and pressure coming from the earth, including condensate and natural gasoline, and any fractionation thereof, including, but not limited to, crude oil, petroleum, gasoline, fuel oil, diesel oil, oil sludge, oil refuse, and oil mixed with wastes other than dredged spoil. Oil does not include any substance listed in Table 302.4 of 40 CFR Part 302 adopted August 14, 1989, under section 101(14) of the federal Comprehensive Environmental Response, Compensation, and Liability Act of 1980, as amended by P.L. 99-499.

"Offshore facility" means any facility, as defined in this section, located in, on, or under any of the navigable waters of the state, but does not include a facility any part of which is located in, on, or under any land of the state, other than submerged land.

"Onshore facility" means any facility, as defined in this section, any part of which is located in, on, or under any land of the state, other than submerged land, that because of its location, could reasonably be expected to cause substantial harm to the environment by discharging oil into or on the navigable waters of the state or the adjoining shorelines.

Owner or operator:

"Owner or operator" means: In the case of a vessel, any person owning, operating, or chartering by demise, the vessel; in the case of an onshore or offshore facility, any person owning or operating the facility; and in the case of an abandoned vessel or onshore or offshore facility, the person who owned or operated the vessel or facility immediately before its abandonment.

"Operator" does not include any person who owns the land underlying a facility if the person is not involved in the operations of the facility.

"Person" means any political subdivision, government agency, municipality, industry, public or private corporation, copartnership, association, firm, individual, or any other entity whatsoever.

"Pipeline operator" means the operator of a transmission pipeline.

"Process pipelines" means a pipeline used to carry oil within the oil refining/processing units of a facility, process unit to tankage piping and tankage interconnecting piping. Process pipelines do not include pipelines used to transport oil to or from a tank vessel or transmission pipeline.

"Secondary containment" means containment systems which prevent any materials discharged from reaching the waters of the state.

"Ship" means any boat, ship, vessel, barge, or other floating craft of any kind.

"Spill" means an unauthorized discharge of oil which enters waters of the state.

"State" means the state of Washington.

"Storage tank" means all aboveground containers connected to transfer pipelines or any aboveground containers greater than ten thousand gallons (two hundred thirty-eight barrels), including storage and surge tanks, used to store bulk quantities of oil. Storage tanks do not include those tanks regulated by chapter 90.76 RCW, rolling stock, wastewater treatment equipment, process pressurized vessels or other tanks used in the process flow through portions of the facility.

"Tankage interconnecting piping" means buried or aboveground piping used to carry oil between storage tanks.

"Tank vessel" means a ship that is constructed or adapted to carry, or that carries, oil in bulk as cargo or cargo residue, and that:

Operates on the waters of the state; or

Transfers oil in a port or place subject to the jurisdiction of this state.

"Transmission pipeline" means a pipeline whether interstate or intrastate, subject to regulation by the United States Department of Transportation under 49 CFR 195, as amended through December 5, 1991, through which oil moves in transportation, including line pipes, valves, and other appurtenances connected to line pipe, pumping units, and fabricated assemblies associated with pumping units.

"Transfer" means any movement of oil between a tank vessel or transmission pipeline and the facility.

"Transfer pipeline" is a buried or aboveground pipeline used to carry oil between a tank vessel or transmission pipeline and the first valve inside secondary containment at the facility provided that any discharge on the facility side of that first valve will not directly impact waters of the state. A transfer pipeline includes valves, and other appurtenances connected to the pipeline, pumping units, and fabricated assemblies associated with pumping units. A transfer pipeline does not include process pipelines, pipelines carrying ballast or bilge water, transmission pipelines, tank vessel or storage tanks. Instances where the transfer pipeline is not well defined will be determined on a case-by-case basis.

"Vessel person in charge" means the person designated under the provisions of 33 CFR 155.700.

"Waters of the state" include lakes, rivers, ponds, streams, inland waters, underground water, salt waters, estuaries, tidal flats, beaches and land adjoining the seacoast of the state, sewers, and all other surface waters and watercourses within the jurisdiction of the state of Washington.

[Statutory Authority: RCW 90.56.220. 94-10-084, § 173-180A-030, filed 5/4/94, effective 6/4/94.]

WAC 173-180A-040 Applicability. Onshore and offshore facilities shall meet the requirements of this section. This rule does not apply to portions of a facility regulated by 49 CFR 195.

[Statutory Authority: RCW 90.56.220. 94-10-084, § 173-180A-040, filed 5/4/94, effective 6/4/94.]

WAC 173-180A-050 Compliance schedule. (1) Facilities must comply with this rule thirty-six months after its effective date. Facilities needing additional time to comply with this rule must obtain written approval from the department extending this date and must submit a proposed compliance schedule to the department within eighteen months of the effective date of this rule subject to the following provisions:

(a) Compliance schedules must include a justification of need for additional time. Facilities shall cite the specific requirements of this rule which will be addressed by the proposed compliance schedule.

(b) Compliance schedules shall contain target dates for the commencement and completion of projects leading to the ultimate compliance with all provisions of this rule.

(c) Only requirements which cannot be met within thirty-six months of the effective date of this rule need to be identified in the compliance schedule.

(d) Compliance schedules which do not meet the definition of best achievable protection will not be approved by the department.

(e) It shall be legal to operate a facility if a proposed compliance schedule has been submitted to the department and the department has not provided the facility with a formal response.

(2) Facilities with approved compliance schedules must:

(a) Meet all requirements of this rule not specifically addressed in the compliance schedule.

(b) Submit a progress report to the department every six months following the compliance schedule approval date.

(c) Meet all compliance schedule dates unless written approval is received from the department.

(3) Facilities commencing construction thirty-six months or later after the adoption date of this rule shall meet the provisions of this rule at the time they commence operation. Facilities under design or construction at the time of the

adoption of this rule shall comply with this rule thirty-six months after the adoption date of this rule.

[Statutory Authority: RCW 90.56.220. 94-10-084, § 173-180A-050, filed 5/4/94, effective 6/4/94.]

WAC 173-180A-060 Vessel transfer requirements. (1) General requirements.

(a) No person shall conduct an oil transfer operation to or from a tank vessel unless the facility person in charge (FPIC) and the vessel person in charge (VPIC) have:

(i) Conducted a pretransfer conference as described in 33 CFR 156.120(w) as amended on September 4, 1990;

(ii) Ensured that transfer connections have been made as specified in 33 CFR 156.130 as amended on September 4, 1990;

(iii) Completely filled out and signed the declaration of Inspection as required by 33 CFR 156.150 as amended on September 4, 1990.

(iv) Established adequate communication in English between the vessel and the facility and in accordance with 33 CFR 154.560 as amended on September 4, 1990.

(v) Ensured that the available capacity in the receiving tank(s) is (are) greater than the volume of oil to be transferred and all other tank fill valves which could influence the routing of the transferred oil are properly aligned.

(b) The operator shall verify that the designated storage tanks are receiving oil at the expected rate.

(c) For the purpose of scheduling inspections, the department may require a facility operator to provide a twenty-four hour advance notification with updates to the department of any anticipated transfer of bulk oil by a facility operator. The department shall notify the facility in writing when this procedure will be required.

(d) Transfer operations shall be supervised by the appropriate person in charge in accordance with 33 CFR 156.160 as amended on September 4, 1990.

(e) Each FPIC shall ensure that the means of operating the emergency shutdown is immediately available while oil is being transferred between the facility and the vessel.

(f) Transfer equipment requirements shall meet the conditions of 33 CFR 154.500 through 33 CFR 154.545 as amended on September 4, 1990.

(g) Transfer equipment shall be tested in accordance with procedures identified in 33 CFR 156.170 as amended on September 4, 1990. Transfer hoses shall be tested at intervals not exceeding twelve months in accordance with the procedures identified by the RMA/IP-11-4, *Rubber Manufacturers Association Manual for Maintenance, Testing and Inspection of Hose* dated 1987 or the manufacturer's recommendations for testing.

(h) All transfer operations shall be in accordance with operations manuals approved under chapter 173-180B WAC.

(i) The FPIC shall refuse to initiate or shall cease transfer operations with any vessel which has not provided complete information as required by the declaration of inspection, has refused to correct deficiencies identified by the FPIC during the pretransfer conference, or does not comply with the facility operations manual or facility requirements.

(2) Oil spills.

(a) Any person conducting an oil transfer shall stop the transfer operation whenever oil from any source associated with the transfer is spilled into the water, or discharged onto the facility deck or dock outside secondary containment, or upon the shoreline adjoining the transfer area.

(b) Transfer operations may not resume after a spill until:

(i) Notification has been made in accordance with RCW 90.56.280; and

(ii) The FPIC and the VPIC have determined that there is no longer an immediate threat to waters of the state or public health.

(c) The department may require that transfer operations stopped under subsection (2)(a) of this section may not resume unless authorized by the department.

(3) Suspension of transfer operations for immediate threat.

(a) The director may order a facility to suspend transfer operations if there is a condition requiring immediate action to prevent the discharge or threat of discharge of oil or to protect the public health and safety, and the environment.

(b) An order of suspension may be made effective immediately.

(c) An order of suspension shall specify each condition requiring immediate action.

(d) The transfer operation shall remain suspended until the director has determined that the need for immediate action is no longer necessary and has notified the facility operator of that determination.

(e) The director shall notify the facility operator as soon as possible of the determination that the need for immediate action is no longer necessary.

(f) The facility operator may petition the pollution control board, in writing or in any other manner, to reconsider an order of suspension.

[Statutory Authority: RCW 90.56.220. 94-10-084, § 173-180A-060, filed 5/4/94, effective 6/4/94.]

WAC 173-180A-070 Transmission pipeline transfer requirements. (1) General requirements.

(a) No person shall conduct an oil transfer operation to or from a transmission pipeline unless the appropriate person and the pipeline operator have:

(i) Conducted pretransfer communications which identify:

(A) Type of oil;

(B) Transfer volume;

(C) Flow rates;

(D) Transfer startup or arrival time;

(ii) Facilities which receive oil from a transmission pipeline must:

(A) Confirm that the proper manifold and valves are open and ready to receive product;

(B) Notify the transmission pipeline operator when a storage tank has less than one foot of oil above the inlet nozzle;

(C) Coordinate arrival time of oil with the pipeline operator;

(D) Confirm the available storage capacity for transfers to a facility;

(E) Ensure that only the designated tank(s) is (are) receiving oil.

(iii) Ensured that proper transfer alignment of the pipeline, valves, manifolds and storage tanks have been made.

(iv) Established adequate communication in English between the facility and pipeline operator.

(b) For the purpose of scheduling inspections, the department may require a twenty-four hour notification to the department in advance of any transfer of bulk oil by a facility operator. The department shall request notification in writing when this procedure is required.

(c) Transfer operations shall be supervised by an appropriate person.

(d) Each facility operator shall ensure that the means of operating or requesting emergency shutdown is immediately available while oil is being transferred between the facility and the pipeline.

(e) If startup, shutdown, and/or emergency shutdown are controlled by the pipeline operator directly using instrumentation and control devices, the accuracy of these devices shall be checked at least annually.

(f) All transfer operations shall be conducted in accordance with operations manuals approved under chapter 173-180B WAC.

(2) Oil spills.

(a) Any person conducting an oil transfer shall stop the transfer operation whenever oil from any source associated with the transfer is spilled into the water or upon the adjoining shoreline in the transfer area.

(b) Transfer operations may not resume after a spill until:

(i) The proper notification has been made in accordance with RCW 90.56.280; and

(ii) All threats to waters of the state and public health no longer exist as determined by the appropriate person.

(c) The department may require that transfer operations stopped under subsection (2)(a) of this section may not resume unless authorized by the department.

(3) Suspension of transfer operations for immediate threat.

(a) The director may order a facility to suspend transfer operations if there is a condition requiring immediate action to prevent the discharge or threat of discharge of oil or to protect the public health and safety, and the environment.

(b) An order of suspension may be made effective immediately.

(c) An order of suspension shall specify each condition requiring immediate action in writing.

(d) The transfer operation shall remain suspended until the director has determined that the need for immediate action is no longer necessary and has notified the facility operator of that determination.

(e) The director shall notify the facility operator as soon as possible of the determination that the need for immediate action is no longer necessary.

(f) The facility operator may petition the pollution control board, in writing or in any other manner, to reconsider an order of suspension.

[Statutory Authority: RCW 90.56.220. 94-10-084, § 173-180A-070, filed 5/4/94, effective 6/4/94.]

WAC 173-180A-080 Secondary containment requirements for aboveground storage tanks. (1) Aboveground oil storage tanks must be located within secondary containment areas. Secondary containment systems must be:

(a) Designed, constructed, maintained and operated to prevent discharged oil from entering waters of the state at any time during use of the tank system;

(b) Capable of containing one hundred percent of the capacity of the largest storage tank within the secondary containment area;

(c) Constructed with materials that are compatible with stored material to be placed in the tank system.

(d) Soil may be used for the secondary containment system, provided that any spill onto the soil will be sufficiently contained, readily recoverable and will be managed in accordance with the provisions under WAC 173-303-145 as amended in December 1993, spills and discharges and any other applicable regulation.

(e) Constructed with sufficient strength and thickness to prevent failure owing to pressure gradients (including static head and external hydrological forces), physical contact with the fluid stored in the storage tank, climatic conditions, and the stresses of daily operations (including stresses from nearby vehicular traffic);

(f) Placed on a base or foundation capable of providing support to the secondary containment system, resistance to pressure gradients above and below the system, and capable of preventing failure due to settlement, compression or uplift;

(g) Sloped or otherwise designed or operated to drain and remove liquids resulting from leaks, spills, or precipitation. Spilled or leaked oil and accumulated precipitation must be removed from the secondary containment system in a manner which will provide the best achievable protection of public health and the environment; and

(h) Visually inspected monthly to confirm secondary containment integrity. Items requiring attention as determined by the visual inspection must be documented. Records must be kept on site for a minimum of three years.

(2) The secondary containment system must be maintained to prevent a breach of the dike by controlling burrowing animals and weeds;

(3) The secondary containment system must be maintained free of debris and other materials which may interfere with the effectiveness of the system, including excessive accumulated precipitation.

(4) The facility shall maintain at least one hundred percent of the working capacity of the largest storage tank within the secondary containment area at all times.

(5) All secondary containment pumps, siphons and valves must be properly maintained and kept in good working order.

(6) Drainage of water accumulations from secondary containment areas that discharge directly to the land or waters of the state must be controlled by locally operated, positive shutoff valves or other positive means to prevent a discharge. Valves must be kept closed except when the discharge from the containment system is in compliance with chapter 90.48 RCW, Water pollution control. Valves must be locked closed when the facility is unattended. Necessary measures shall be taken to ensure secondary containment

valves are protected from inadvertent opening or vandalism. There shall be some means of readily determining valve status by facility personnel such as a rising stem valve or position indicator.

(7) The owner or operator shall inspect or monitor accumulated water before discharging from secondary containment to ensure that no oil will be discharged to the waters of the state. All water discharges shall comply with state water quality program regulations as described in chapter 90.48 RCW.

(8) The department may require oil containers less than ten thousand gallons (two hundred thirty-eight barrels) capacity to have secondary containment when the container is located less than six hundred feet from navigable waters of the state or a storm water or surface drains which may directly impact navigable waters of the state.

(9) A secondary containment system constructed after the adoption date of this rule shall be installed as follows:

(a) In accordance with the 1993 version of the National Fire Protection Association (NFPA), Flammable and Combustible Code, No. 30, section 2-3.4.3;

(b) Secondary containment systems must be capable of containing one hundred percent of the capacity of the largest storage tank within the secondary containment area;

(c) Secondary containment systems shall be designed to withstand seismic forces;

(d) Drains and other penetrations through secondary containment areas must be minimized consistent with facility operational requirements; and

(e) Secondary containment systems shall be designed and constructed in accordance with sound engineering practice and in conformance with the provisions of this section.

[Statutory Authority: RCW 90.56.220. 94-10-084, § 173-180A-080, filed 5/4/94, effective 6/4/94.]

WAC 173-180A-090 Storage tank requirements. (1) Storage tanks constructed after the adoption date of this rule shall meet or exceed the 1993 version of the National Fire Protection Association (NFPA 30) requirements and one of the following design and manufacturing standards:

(a) UL No. 142, Steel Aboveground Tanks for Flammable and Combustible Liquids dated April 1993;

(b) API Standard 650, Welded Steel Tanks for Oil Storage dated November 1988;

(c) API Standard 620, Design and Construction of Large Welded, Low-Pressure Tanks dated June 1990; or

(d) Another standard approved by the department.

(2) The owner or operator shall ensure that the means of preventing storage tank overfill comply with the 1993 version of the National Fire Protection Association (NFPA), Flammable and Combustible Code, No. 30, Chapter 2, Section 2-10.

(3) Storage tanks shall be maintained, repaired and inspected in accordance with the requirements of API 653 dated January 1991 unless the operator proposes an equivalent inspection strategy which is approved by the department.

(4) A record of all inspection results and corrective actions taken must be kept for the service life of the tank and must be available to the department for inspection and copying upon request.

[Statutory Authority: RCW 90.56.220. 94-10-084, § 173-180A-090, filed 5/4/94, effective 6/4/94.]

WAC 173-180A-100 Transfer pipeline requirements. (1) Pipelines replaced, relocated or constructed after the adoption date of this rule which are located in areas not controlled by the facility shall be installed in accordance with 49 CFR 195.246 through 49 CFR 195.254 as amended on October 8, 1991, where feasible. Facility control is established by fencing, barriers or other method accepted by the department which protects the pipe right-of-way and limits access to personnel authorized by the facility.

(2) All pipelines shall be protected from third party damage in a reasonable manner and be able to withstand external forces exerted upon them. This shall be done by:

(a) Registering all underground pipelines located in public right-of-way areas in the local one call system if available;

(b) Maintaining accurate maps for all underground piping located outside the facility. The maps shall identify pipe size and location. The approximate depths of pipelines shall be identified for pipelines which do not comply with 49 CFR 195.248 as amended on October 8, 1991;

(c) Marking all piping located in areas not controlled by the facility in accordance with 49 CFR 195.410 as amended on October 8, 1991;

(d) Providing easement inspections of areas identified by subsection (2)(b) of this section on a weekly basis to determine if there is any uncommon activity occurring which may affect the integrity of the pipeline;

(e) Ensuring that pipelines at each railroad, highway or road crossing are designed and installed to adequately withstand the dynamic forces exerted by anticipated traffic loads.

(3) Pipelines constructed after the adoption date of this rule shall be designed and constructed in accordance with the American Society of Mechanical Engineers (ASME) Standard for pressure piping ASME B31.3 or B31.4 issued March 15, 1993, in effect during the time of construction or any other standard accepted by the Department.

(4) Pipelines must be inspected in accordance with API 570, 1993, Piping Inspection Code. As an alternative to complying with API 570, the facility must comply with the following requirements:

(a) Buried pipelines constructed after the adoption date of this rule must be coated. Coatings shall be designed and inspected to meet the following conditions consistent with the definition of best achievable protection:

(i) Coatings shall effectively electrically isolate the external surfaces of the pipeline system from the environment.

(ii) Coatings shall have sufficient adhesion to effectively resist underfilm migration of moisture.

(iii) Coatings must be sufficiently ductile to resist cracking.

(iv) The coating shall have sufficient impact and abrasion resistance or otherwise be protected to resist damage due to soil stress and normal handling (including concrete coating application, installation of river weights and anode bracelet installation, where applicable).

(v) The coating must be compatible with cathodic protection.

(vi) The coating must be compatible with the operating temperature of the pipeline.

(vii) Coatings shall be inspected immediately before, during, or after pipe installation to detect coating faults. Faults in the coating shall be repaired and reinspected.

(b) All buried coated pipelines shall have properly operated cathodic protection which is maintained during the operational life of the pipeline system. Cathodic protection shall be maintained on pipeline systems which are out of service but not abandoned unless the operator can show that the pipeline integrity has been properly monitored and secured as approved by the department prior to operation of the abandoned pipeline. Pipeline owners or operators may perform a corrosion study to demonstrate that cathodic protection is not required as an option to installing cathodic protection. Corrosion studies shall follow the following guidelines as a minimum:

(i) Corrosion studies shall be completed by a professional engineer with experience in corrosion control of buried pipelines, a NACE certified corrosion specialist or by a person knowledgeable and qualified to perform the required testing and inspection who is approved by the department.

(ii) Corrosion studies for pipelines shall include at a minimum, the following:

(A) Pipeline thickness and corrosion rate for existing pipelines;

(B) Presence of stray DC currents;

(C) Soil resistivity/conductivity;

(D) Soil moisture content;

(E) Soil pH;

(F) Chloride ion concentration; and

(G) Sulfide ion concentration.

(c) All pipelines with cathodic protection are subject to the following requirements where applicable:

(i) Cathodic protection systems must be tested to determine system adequacy on an annual basis.

Note: The National Association of Corrosion Standard RP-02-85, "Control of External Corrosion on Metallic Buried, Partially Buried, or Submerged Liquid Storage Systems," may be used to comply with this section.

(ii) Impressed current cathodic protection rectifiers must be inspected every two months.

(iii) Where insulating devices are installed to provide electrical isolation of pipeline systems to facilitate the application of corrosion control, they shall be properly rated for temperature, pressure and electrical properties, and shall be resistant to the commodity carried in the pipeline system.

(iv) Buried pipeline systems shall be installed so that they are not in electrical contact with any metallic structures. This requirement shall not preclude the use of electrical bonding to facilitate the application of cathodic protection.

(v) Tests shall be carried out to determine the presence of stray currents. Where stray currents are present, measures shall be taken to mitigate detrimental effects.

(d) Buried bare pipelines shall be inspected in accordance with section 7 of API 570 dated June 1993. Pipeline thickness and corrosion rates shall be determined at an interval of no more than half of the remaining life of the pipeline as determined from corrosion rates or every five years whichever is more frequent. Pipeline thickness and corrosion rate shall be initially established within thirty-six months after the adoption date of this rule. The pipeline shall be operated in accordance with American Society of Mechanical Engineers (ASME) supplement to ASME B31G-1991 entitled *"Manual for Determining the Remaining Strength of Corroded Pipe"* for transmission pipelines issued June 27, 1991, API 570 dated June 1993 or a standard approved by the department.

(5) Whenever any buried pipe is exposed for any reason, the operator shall provide a nondestructive examination of the pipe for evidence of external corrosion. If the operator finds that there is active corrosion, the extent of that corrosion must be determined and if necessary repaired.

(6) Each facility shall maintain all pumps and valves that could affect waters of the state in the event of a failure. Transfer pipeline pumps and valves and storage tank valves shall be inspected annually and maintained in accordance with the manufacturers recommendations or an industrial standard approved by the department to ensure that they are functioning properly. Valves shall be locked when the facility is not attended. Necessary measures shall be taken to ensure that valves are protected from inadvertent opening or vandalism if located outside the facility or at an unattended facility.

(7) A written record must be kept of all inspections and tests covered by this section.

(8) Facilities shall have the capability of detecting a transfer pipeline leak equal to eight percent of the maximum design flow rate within fifteen minutes for transfer pipelines connected to tank vessels. Leak detection capability shall be determined by the facility using best engineering judgment. Deficiencies with leak detection systems such as false alarms must be addressed and accounted for by the facility. Facilities may meet these requirements by:

(a) Visual inspection provided the entire pipeline is visible and inspected every fifteen minutes; or

(b) Instrumentation; or

(c) Completely containing the entire circumference of the pipeline provided that a leak can be detected within fifteen minutes; or

(d) Conducting an acceptable hydrotest of the pipeline immediately before the oil transfer with visual surveillance of the exposed pipeline every fifteen minutes; or

(e) A combination of the above strategies; or

(f) A method approved by the department which meets the standard identified in this section.

Leak detection system operation and operator response must be described in the facility operations manual.

[Statutory Authority: RCW 90.56.220. 94-10-084, § 173-180A-100, filed 5/4/94, effective 6/4/94.]

WAC 173-180A-110 Inspections. The department may verify compliance with this chapter by announced and unannounced inspections in accordance with RCW 90.56.410. During an inspection the department may require the facility to provide proof of compliance by producing all required records, documents as well as demonstrating spill prevention equipment and procedures required by this rule.

[Statutory Authority: RCW 90.56.220. 94-10-084, § 173-180A-110, filed 5/4/94, effective 6/4/94.]

WAC 173-180A-120 Recordkeeping. Records required by this rule shall be maintained and available for a minimum of three years. Storage tank and pipeline records shall be maintained for the life of the equipment. Records shall be available to the department for inspection or photocopying upon request.

[Statutory Authority: RCW 90.56.220. 94-10-084, § 173-180A-120, filed 5/4/94, effective 6/4/94.]

WAC 173-180A-130 Noncompliance. Any violation of this chapter may be subject to the enforcement sanctions of chapters 90.48 and 90.56 RCW.

[Statutory Authority: RCW 90.56.220. 94-10-084, § 173-180A-130, filed 5/4/94, effective 6/4/94.]

WAC 173-180A-140 Rule review. The department shall review the requirements of this section every five years to ensure that best achievable protection of public health and environment is being achieved. This review shall include a review of current and updated industry standards, federal and state regulations, equipment and operational procedures.

[Statutory Authority: RCW 90.56.220. 94-10-084, § 173-180A-140, filed 5/4/94, effective 6/4/94.]

WAC 173-180A-150 Severability. If any provision of this chapter is held invalid, the remainder of this rule is not affected.

[Statutory Authority: RCW 90.56.220. 94-10-084, § 173-180A-150, filed 5/4/94, effective 6/4/94.]

Chapter 173-180B WAC
FACILITY OIL-HANDLING OPERATIONS MANUAL STANDARDS

WAC

173-180B-010 Purpose.
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WAC 173-180B-010 Purpose. The purpose of this chapter is to establish operations manual requirements which, when followed, will:

(1) Help to prevent oil and petroleum spills from occurring;

(2) Ensure that facilities are operated in a manner which will provide the best achievable protection of public health and the environment;

(3) Provide improved protection of Washington waters and natural resources from the impacts of oil spills caused by operational errors.

[Statutory Authority: RCW 90.56.230. 94-10-083, § 173-180B-010, filed 5/4/94, effective 6/4/94.]

WAC 173-180B-020 Authority. RCW 90.56.230 provides statutory authority for operations manual preparation and review requirements established by this chapter.

[Statutory Authority: RCW 90.56.230. 94-10-083, § 173-180B-020, filed 5/4/94, effective 6/4/94.]

WAC 173-180B-030 Definitions. "Best achievable protection" means the highest level of protection that can be achieved through the use of the best achievable technology and those staffing levels, training procedures, and operational methods that provide the greatest degree of protection achievable. The director's determination of best achievable protection shall be guided by the critical need to protect the state's natural resources and waters, while considering: The additional protection provided by the measures; the technological achievability of the measures; and the cost of the measures.

"Best achievable technology" means the technology that provides the greatest degree of protection, taking into consideration processes that are being developed, or could feasibly be developed, given overall reasonable expenditures on research and development, and processes that are currently in use. In determining what is best achievable technology, the director shall consider the effectiveness, engineering feasibility, and commercial availability of the technology.

"Board" means the pollution control hearings board.

"Bulk" means material that is stored or transported in a loose, unpackaged liquid, powder, or granular form capable of being conveyed by a pipe, bucket, chute, or belt system.

"Cargo vessel" means a self-propelled ship in commerce, other than a tank vessel or a passenger vessel, greater than three hundred or more gross tons, including but not limited to, commercial fish processing vessels and freighters.

"Covered vessel" means a tank vessel, cargo vessel, or passenger vessel.

"Department" means the department of ecology.

"Director" means the director of the department of ecology.

"Discharge" means any spilling, leaking, pumping, pouring, emitting, emptying or dumping.

Facility:

"Facility" means any structure, group of structures, equipment, pipeline, or device, other than a vessel, located on or near the navigable waters of the state that transfers oil in bulk to or from a tank vessel or pipeline, that is used for producing, storing, handling, transferring, processing, or transporting oil in bulk.

A facility does not include any: Railroad car, motor vehicle, or other rolling stock while transporting oil over the highways or rail lines of this state; underground storage tank regulated by the department or a local government under chapter 90.76 RCW; a motor vehicle motor fuel outlet; a facility that is operated as part of an exempt agricultural activity as provided in RCW 82.04.330; or a marine fuel outlet that does not dispense more than three thousand gallons of fuel to a ship that is not a covered vessel, in a single transaction.

"Navigable waters of the state" means those waters of the state, and their adjoining shorelines, that are subject to the ebb and flow of the tide and/or are presently used, have been

used in the past, or may be susceptible for use to transport intrastate, interstate, or foreign commerce.

"Oil" or "oils" means naturally occurring liquid hydrocarbons at atmospheric temperature and pressure coming from the earth, including condensate and natural gasoline, and any fractionation thereof, including, but not limited to, crude oil, petroleum, gasoline, fuel oil, diesel oil, oil sludge, oil refuse, and oil mixed with wastes other than dredged spoil. Oil does not include any substance listed in Table 302.4 of 40 CFR Part 302 adopted August 14, 1989, under section 101(14) of the federal Comprehensive Environmental Response, Compensation, and Liability Act of 1980, as amended by P.L. 99-499.

"Offshore facility" means any facility, as defined in this section, located in, on, or under any of the navigable waters of the state, but does not include any land of the state, other than submerged land.

"Onshore facility" means any facility, as defined in this section, any part of which is located in, on, or under any land of the state, other than submerged land, that because of its location, could reasonably be expected to cause substantial harm to the environment by discharging oil into or on the navigable waters of the state or the adjoining shorelines.

Owner or operator:

"Owner" or "operator" means: In the case of a vessel, any person owning, operating, or chartering by demise, the vessel; in the case of an onshore or offshore facility, any person owning or operating the facility; and in the case of an abandoned vessel or onshore or offshore facility, the person who owned or operated the vessel or facility immediately before its abandonment.

Operator does not include any person who owns the land underlying a facility immediately before its abandonment.

"Passenger vessel" means a ship of greater than three hundred or more gross tons or five hundred or more international gross tons carrying passengers for compensation.

"Person" means any political subdivision, government agency, municipality, industry, public or private corporation, copartnership, association, firm, individual, or any other entity whatsoever.

"Ship" means any boat, ship, vessel, barge, or other floating craft of any kind.

"Spill" means an unauthorized discharge of oil which enters the waters of the state.

"Tank vessel" means a ship that is constructed or adapted to carry, or that carries, oil in bulk as cargo or cargo residue, and that:

Operates on the waters of the state; and

Transfers oil in a port or place subject to the jurisdiction of this state.

"Transmission pipeline" means a pipeline whether interstate or intrastate, subject to regulation by the United States Department of Transportation under 49 CFR 195, as amended through December 5, 1991, through which oil moves in transportation, including line pipes, valves, and other appurtenances connected to line pipe, pumping units, and fabricated assemblies associated with pumping units.

"Transfer" means any movement of oil between a tank vessel or transmission pipeline and the facility.

"Transfer pipeline" is a buried or aboveground pipeline used to carry oil between a tank vessel or transmission pipeline and the first valve inside secondary containment at the facility provided that any discharge on the facility side of that first valve will not directly impact waters of the state. A transfer pipeline includes valves, and other appurtenances connected to the pipeline, pumping units, and fabricated assemblies associated with pumping units. A transfer pipeline does not include process pipelines, pipelines carrying ballast or bilge water, transmission pipelines, tank vessel or storage tanks. Instances where the transfer pipeline is not well defined will be determined on a case-by-case basis.

"Waters of the state" include lakes, rivers, ponds, streams, inland waters, underground water, salt waters, estuaries, tidal flats, beaches and land adjoining the seacoast of the state, sewers, and all other surface waters and watercourses within the jurisdiction of the state of Washington.

[Statutory Authority: RCW 90.56.230. 94-10-083, § 173-180B-030, filed 5/4/94, effective 6/4/94.]

WAC 173-180B-040 Applicability. Operations manuals for onshore and offshore facilities must be prepared, submitted, and implemented, pursuant to the requirements in this chapter.

[Statutory Authority: RCW 90.56.230. 94-10-083, § 173-180B-040, filed 5/4/94, effective 6/4/94.]

WAC 173-180B-050 Manual preparation. (1) Each facility shall prepare an operation and maintenance manual describing equipment and procedures involving the transfer, storage, and handling of oil that the operator employs or will employ to achieve best achievable protection for public health and the environment, and to prevent oil spills. The manual shall also describe equipment and procedures required for all vessels which transfer oil to or from a facility. At a minimum, manuals shall meet the requirements of this chapter.

(2) The manual shall be thorough and contain enough information, analyses, supporting data, and documentation to demonstrate the manual holder's ability to meet the requirements of this chapter and the requirements of chapter 173-180A WAC.

(3) Coast Guard operations manuals required under 33 CFR 154.300 may be submitted to satisfy manual requirements under this chapter if the department deems that such federal requirements equal or exceed those of the department, or if the manuals are modified or appended to satisfy manual requirements under this chapter.

[Statutory Authority: RCW 90.56.230. 94-10-083, § 173-180B-050, filed 5/4/94, effective 6/4/94.]

WAC 173-180B-060 Manual format requirements. (1) Manuals shall be divided into a system of chapters and sections and shall be organized in a format which provides easy access to information.

(2) The manual shall allow replacement of chapter and appendix pages with revisions, without requiring replacement of the entire manual.

[Statutory Authority: RCW 90.56.230. 94-10-083, § 173-180B-060, filed 5/4/94, effective 6/4/94.]

WAC 173-180B-070 Manual content requirements. (1) Each operations manual submitted to the department shall contain a submittal agreement which:

(a) Includes the name, address, and phone number of the submitting party.

(b) Verifies acceptance of the manual by the owner or operator of the facility by either signature of the owner or operator or signature by a person with the authority to bind the corporation which owns such facility;

(c) Commits execution of the manual by the owner or operator of the facility, and verifies authority for the plan holder to make appropriate expenditures in order to execute plan provisions.

(d) Includes the name, location, and address of the facility, type of facility, and starting date of operations.

(e) Each manual shall include a log sheet to record amendments to the manual. The log sheet shall be placed at the front of the manual. The log sheet shall provide for a record of the section amended, the date that the old section was replaced with the amended section, and the initials of the individual making the change. A description of the amendment and its purpose shall also be included in the log sheet, or filed in the form of an amendment letter immediately following the log sheet.

(2) Each manual shall include a detailed table of contents based on chapter, section, and appendix numbers and titles, as well as tables and figures.

(3) Where applicable, topics identified in the table of contents may be cross referenced with other submissions required by chapter 90.56 RCW including contingency and prevention plans, or 33 CFR 156 provided that a copy of the *Coast Guard Operations Manual* has been submitted to ecology.

(4) Operations manuals shall address at a minimum the following topics for marine transfers to or from facilities:

(a) The geographic location of the facility shown on a topographic map;

(b) A physical description of the facility including a plan of the facility showing mooring areas, transfer locations, control stations, oil flow patterns, and locations of safety equipment;

(c) A statement identifying facility operation hours;

(d) A discussion of the sizes, types, and number of vessels that the facility can transfer oil to or from, including simultaneous transfers;

(e) A description of all oil types transferred to or from the facility including:

(i) Generic and chemical name; and

(ii) The following oil information:

(A) The name of the oil;

(B) A description of the appearance of the oil;

(C) The hazards involved in handling the oil;

(D) Instructions for safe handling of oil;

(E) The procedures to be followed if the oil spills or leaks, or if a person is exposed to the oil; and

(F) A list of fire fighting procedures and extinguishing agents effective with fires involving the oil.

(f) A discussion of the minimum number of persons or equipment required to perform transfer operations and their duties;

(g) The names and telephone numbers of facility, federal, state, local and other personnel who may be called by the employees of the facility in case of an emergency;

(h) The duties of the transfer watchmen;

(i) Instructions in the use of each communication system;

(j) The location and facilities of each personnel shelter, if any;

(k) A description and instructions for the use of drip and discharge collection and vessel slop reception facilities, if any;

(l) Emergency plans and procedures including a description of and the location of each emergency shutdown system;

(m) Quantity, types, locations, and instructions for use of monitoring devices;

(n) Quantity, type, location, instructions for use, and time limits for gaining access to containment equipment;

(o) Quantity, type, location, and instructions for use of fire extinguishing equipment;

(p) Maximum relief valve settings (or maximum system pressures when relief valves are not provided) for each transfer system;

(q) Detailed procedures for:

(i) Operating each loading arm including the limitations of each loading arm;

(ii) Transferring oil;

(iii) Completion of pumping; and

(iv) Emergencies.

(r) Procedures for reporting and initial containment of oil discharges;

(s) A brief summary of applicable federal, state, and local oil pollution laws and regulations;

(t) If applicable, procedures for shielding portable lighting;

(u) A discussion of facility operation procedures for conducting oil transfers including transfer startups and shutdowns;

(v) Recordkeeping procedures and sample forms which are associated with the requirements in chapters 173-180A and 173-180B WAC;

(w) Example maintenance schedules incorporating manufacturers recommendations or an industrial standard approved by the department, preventative maintenance, replacement criteria for transfer pipelines, pumps and valves;

(x) A discussion of equipment and procedures required for all vessels which transfer oil to the facility. Procedures for verifying that vessels meet facility requirements and operations manual procedures;

(y) A section in accordance with the National Fire Protection Association (NFPA), Flammable and Combustible Code, No. 30-1993, Chapter 2, Section 2-10 which requires that written procedures be developed to describe overfill prevention procedures. Overfill prevention procedures shall be described for transfers to storage tanks and tank vessels;

(z) A discussion of the leak detection system and/or procedures implemented by the facility.

(5) Operations manuals shall address at a minimum the following topics for transfers to or from transmission pipelines:

(a) The geographic location of the facility shown on a topographic map;

(b) A physical description of the facility including a plan of the facility showing transfer locations, control stations, oil flow patterns, and locations of safety equipment;

(c) A statement identifying facility operation hours;

(d) A description of all oil types transferred to or from the facility including:

(i) Generic and chemical name; and

(ii) The following oil information:

(A) The name of the oil;

(B) A description of the appearance of the oil;

(C) A description of the odor of the oil;

(D) The hazards involved in handling the oil;

(E) Instructions for safe handling of oil;

(F) The procedures to be followed if the oil spills or leaks, or if a person is exposed to the oil; and

(G) A list of fire fighting procedures and extinguishing agents effective with fires involving the oil.

(e) A discussion of the minimum number of persons required to perform transfer operations and their duties;

(f) The names and telephone numbers of facility, federal, state, local and other personnel who may be called by the employees of the facility in case of an emergency;

(g) The duties of the facility operator;

(h) A description of each communication system;

(i) The location and facilities of each personnel shelter, if any;

(j) Emergency plans and procedures including a description of and the location of each emergency shutdown system;

(k) Quantity, types, locations, and instructions for use of monitoring devices;

(l) Quantity, type, location, instructions for use, and time limits for gaining access to containment equipment;

(m) Quantity, type, location, and instructions for use of fire extinguishing equipment;

(n) Maximum relief valve settings (or maximum system pressures when relief valves are not provided) for each transfer system;

(o) Detailed procedures for:

(i) Transferring oil;

(ii) Completion of transfer; and

(iii) Emergencies.

(p) Procedures for reporting and initial containment of oil discharges;

(q) A brief summary of applicable federal, state, and local oil pollution laws and regulations;

(r) A description of the training and qualification program for persons in charge;

(s) A discussion of facility operation procedures for conducting oil transfers including transfer startups and shutdowns;

(t) Recordkeeping procedures and sample forms to be used;

(u) Example maintenance schedules incorporating manufacturers recommendations or an industrial standard approved by the department, preventative maintenance replacement criteria for transfer pipelines, pumps and valves;

(v) A section in accordance with the National Fire Protection Association (NFPA), Flammable and Combustible Code, No. 30-1993, Chapter 2, Section 2-10 which requires that written procedures be developed to describe overfill prevention procedures. Overfill prevention procedures shall be described for transfers to storage tanks and tank vessels.

[Statutory Authority: RCW 90.56.230. 94-10-083, § 173-180B-070, filed 5/4/94, effective 6/4/94.]

WAC 173-180B-080 Manual submittal. (1) Manuals for onshore and offshore facilities shall be submitted to ecology within eighteen months after the adoption date of this rule.

(2) Any onshore or offshore facility that first begins operating after the above deadline shall submit a manual to the department at least sixty-five calendar days prior to the beginning of operations.

(3) Three copies of the manual and appendices shall be delivered to:

Spill Management Section,
Operations Manual Review
Washington Department of Ecology
P.O. Box 47600
Olympia, WA 98504-7600

(4) The plan submitter may request that proprietary information be kept confidential under RCW 43.21A.160.

[Statutory Authority: RCW 90.56.230. 94-10-083, § 173-180B-080, filed 5/4/94, effective 6/4/94.]

WAC 173-180B-090 Manual review. (1) Upon receipt of a manual, ecology shall determine promptly whether the manual is complete. If the department determines that a manual is incomplete, the submitter shall be notified of deficiencies.

(2) A manual shall be approved if, in addition to meeting criteria in this section, that when implemented, it can provide best achievable protection from damages cause by the discharge of oil into waters of the state.

(3) When reviewing manuals, ecology shall, in addition to the above criteria, consider the following:

(a) The volume and type of oil(s) addressed by the facility prevention plan;

(b) The history and circumstances of prior spills by similar types of facilities, including spills reported to the state and federal government in Washington state;

(c) Inspection reports;

(d) The presence of operating hazards;

(e) The sensitivity and value of natural resources within the geographic area covered by the plan; and

(f) Any pertinent local, state, federal agency, or public comments received on the manual.

(4) Ecology shall endeavor to notify the facility owner or operator within five working days after the review is completed whether the manual has been approved.

(a) If the plan receives approval, the facility owner or operator shall receive an approval letter describing the terms of approval, including expiration dates pursuant to WAC 173-180-085(4).

(b)(i) Ecology may approve a manual conditionally by requiring a facility owner or operator to operate with specific precautionary measures until acceptable components of the plan are resubmitted and approved.

(ii) Precautionary measures may include, but are not limited to, reducing oil transfer rates, increasing personnel levels, or restricting operations to daylight hours. Precautionary measures may also include additional requirements to ensure availability to response equipment.

(iii) A manual holder shall have thirty days after the department gives notification of conditional status to submit and implement required changes to ecology, with the option for an extension at ecology's discretion. Manual holders who fail to meet conditional requirements or provide required changes in the time allowed shall lose conditional approval status.

(c) If manual approval is denied, the facility owner or operator shall receive an explanation of the factors for disapproval and a list of deficiencies. The owner or operator of the facility must resubmit the manual within ninety days of notification of reasons for noncompliance, responding to the reasons and incorporating any suggested modifications. The facility shall not continue oil storage, transfer, production, or other operations until a manual for that facility has been approved.

(d) A manual holder may appeal ecology's decision under WAC 173-04-010.

(e) Approval of a manual by ecology does not constitute an express assurance regarding the adequacy of the manual nor constitute a defense to liability imposed under state law.

(5) It shall be legal to operate a facility if a proposed operations manual has been submitted to the department and the department has not provided the facility with a formal response.

[Statutory Authority: RCW 90.56.230. 94-10-083, § 173-180B-090, filed 5/4/94, effective 6/4/94.]

WAC 173-180B-100 Manual maintenance and use. (1) All equipment and operations of the facility shall be completed and maintained in accordance with the facility's operation manual. The owner or operator shall ensure that all covered vessels docked at an onshore or offshore facility comply with the terms of the operations manual for the facility.

(2) Each facility covered by the manual shall possess a copy of the manual and keep it in an immediately accessible location.

(3) Facilities shall ensure that all employees involved in oil transfer, or storage operations, are familiar with the manual provisions through regular training. Orientation materials for new employees involved in oil transfer or storage operations shall contain a copy of the manual.

[Statutory Authority: RCW 90.56.230. 94-10-083, § 173-180B-100, filed 5/4/94, effective 6/4/94.]

WAC 173-180B-110 Inspections. Ecology may verify compliance with this chapter by announced and unannounced inspections in accordance with RCW 90.56.410. During an inspection ecology may require the facility to provide proof of compliance by producing all required records, documents as well as demonstrating spill prevention equipment and procedures.

[Statutory Authority: RCW 90.56.230. 94-10-083, § 173-180B-110, filed 5/4/94, effective 6/4/94.]

WAC 173-180B-120 Manual update timeline. (1) Ecology shall be notified in writing prior to any significant changes which could affect implementation of the manual.

(a) A significant change includes, but is not limited to:

(i) A change in the owner or operator of the facility;

(ii) A change in the types of oil handled at the facility;

(iii) A substantial change in the facility's oil-handling capacity;

(iv) Noncompliance with the federal Oil Pollution Act of 1990;

(v) A substantial change in oil spill prevention technology installed at the facility, or other substantial changes to facility technology, operations, or personnel procedures based on requirements of amended or new rules adopted by ecology; and

(vi) A change which would require that the operations manual be modified.

(b) If the change will reduce the facility's ability to implement the manual, the manual holder shall also provide a schedule for the return of the manual to full implementation capability.

(c) A facsimile will be considered written notice for the purposes of this section.

(d) Failure to notify ecology of significant changes shall be considered noncompliance with this chapter and subject to the provisions of WAC 173-180B-070.

(2) If ecology finds that, as a result of the change, the manual no longer meets approval criteria, the department may, at its discretion, place conditions on approval, or revoke approval. The department may also require the manual holder to amend its manual to incorporate the change.

(3) Within thirty calendar days of making a change to the operations manual, the facility owner or operator shall distribute the amended page(s) of the plan to ecology and other manual holders.

(4) Manuals shall be reviewed by ecology every five years. Manuals shall be submitted for reapproval unless the manual holder submits a letter requesting that ecology review the manual already in the department's possession. The manual holder shall submit the manual or such letter at least one hundred eighty calendar days in advance of the manual expiration date.

(5) Ecology may review a manual and require changes following any spill for which the manual holder is responsible.

[Statutory Authority: RCW 90.56.230. 94-10-083, § 173-180B-120, filed 5/4/94, effective 6/4/94.]

WAC 173-180B-130 Noncompliance with manual requirements. Any violation of this chapter may be subject to the enforcement sanctions of chapter 90.48 RCW.

[Statutory Authority: RCW 90.56.230. 94-10-083, § 173-180B-130, filed 5/4/94, effective 6/4/94.]

WAC 173-180B-140 Severability. If any provision of this chapter is held invalid, the remainder of this rule is not affected.

[Statutory Authority: RCW 90.56.230. 94-10-083, § 173-180B-140, filed 5/4/94, effective 6/4/94.]

Chapter 173-180C WAC
FACILITY PERSONNEL OIL-HANDLING TRAINING AND CERTIFICATION

WAC

173-180C-010 Purpose.
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173-180C-095 Noncompliance with requirements.
173-180C-098 Severability.

WAC 173-180C-010 Purpose. The purpose of this chapter is to establish onshore and offshore facility personnel oil-handling training and certification requirements which, when followed, will:

(1) Provide improved protection of Washington waters and natural resources by preventing oil spills caused by human factors;

(2) Ensure that key facility personnel involved in oil-handling operations are adequately trained and have demonstrated competency; and

(3) Establish certification that personnel are in compliance with training requirements.

[Statutory Authority: RCW 90.56.220. 93-01-089 (Order 91-64), § 173-180C-010, filed 12/16/92, effective 1/16/93.]

WAC 173-180C-020 Authority. RCW 90.56.220 provides statutory authority for the personnel training and certification requirements established by this chapter.

[Statutory Authority: RCW 90.56.220. 93-01-089 (Order 91-64), § 173-180C-020, filed 12/16/92, effective 1/16/93.]

WAC 173-180C-030 Definitions. (1) "Bulk" means material that is stored or transported in a loose, unpackaged liquid, powder, or granular form capable of being conveyed by a pipe, bucket, chute, or belt system.

(2) "Cargo vessel" means a self-propelled ship in commerce, other than a tank vessel or a passenger vessel, of three hundred or more gross tons, including but not limited to, commercial fish processing vessels and freighters.

(3) "Certification" means the documentation that a facility employee has met all requirements of an oil spill prevention training and job competency program that meets the requirements of this chapter.

(4) "Department" means the state of Washington department of ecology.

(5) "Director" means the director of the state of Washington department of ecology.

(6) "Discharge" means any spilling, leaking, pumping, pouring, emitting, emptying, or dumping.

(7)(a) "Facility" means any structure, group of structures, equipment, pipeline, or device, other than a vessel, located on or near the navigable waters of the state that both:

(i) Transfers oil in bulk to or from a tank vessel or pipeline; and

(ii) Is used for producing, storing, handling, transferring, processing, or transporting oil in bulk.

(b) A facility does not include any:

(i) Railroad car, motor vehicle, or other rolling stock while transporting oil over the highways or rail lines of this state, or while transferring oil to or from the rolling stock;

(ii) Underground storage tank regulated by the department or a local government under chapter 90.76 RCW;

(iii) Motor vehicle motor fuel outlet;

(iv) Facility that is operated as part of an exempt agricultural activity as provided in RCW 82.04.330; or

(v) Marine fuel outlet that dispenses three thousand gallons or less of fuel in a single transaction to a ship other than a tank vessel, cargo vessel, or passenger vessel. Marine fuel outlets that dispense more than three thousand gallons of fuel to any vessel in a single transaction do not meet this exemption.

(8) "Gross ton" means a vessel's approximate volume as defined in Title 46, United States Code of Federal Regulations, Part 69.

(9) "Human factors" means human conditions, such as inadequate knowledge or fatigue, which can lead to incompetency or poor judgment.

(10) "Human factor risks" means risks of causing an oil spill due to the effects of human factors on competency and judgment.

(11) "Indirect operations" means involvement in on-site activities, such as new construction, in a capacity that indirectly involves the risk of an oil spill to waters of the state due to potential impacts to nearby oil-handling operations (e.g., operating digging equipment next to an active transfer pipeline).

(12) "Key" means a position with direct responsibility for performing or overseeing the transfer, storage, handling, or monitoring of oil at a facility, or a job function where typical human factors present the probability of a spill occurring.

(13) "Maintenance" means direct involvement in maintaining and repairing the equipment used for the transfer, storage, handling, or monitoring of oil at a facility in a capacity that involves the risk of an oil spill to waters of the state.

(14) "Management" means direct involvement in managing the transfer, storage, handling, or monitoring of oil at a facility by setting operations policies and procedures that involve the risk of an oil spill to waters of the state.

(15) "Marine facility" means any facility used for tank vessel wharfage or anchorage, including any equipment used for the purpose of handling or transferring oil in bulk to or from a tank vessel.

(16) "Maximum extent practicable" means the highest level of effectiveness that can be achieved through the use of facility personnel and best achievable technology. In determining what is the maximum extent practicable, the director shall consider, at a minimum, the effectiveness, engineering feasibility, commercial availability, safety, and the cost of the measures.

(17) "Navigable waters of the state" means those waters of the state, and their adjoining shorelines, that are subject to the ebb and flow of the tide and/or are presently used, have been used in the past, or may be susceptible for use to transport intrastate, interstate, or foreign commerce.

(18) "Offshore facility" means any facility, as defined in subsection (7) of this section, located in, on, or under any of

the navigable waters of the state, but does not include a facility any part of which is located in, on, or under any land of the state, other than submerged land.

(19) "Oil" or "oils" means naturally occurring liquid hydrocarbons at atmospheric temperature and pressure coming from the earth, including condensate and natural gasoline, and any fractionation thereof, including, but not limited to, crude oil, petroleum, gasoline, fuel oil, diesel oil, oil sludge, oil refuse, and oil mixed with wastes other than dredged spoil, including oil-contaminated ballast or bilge water. Oil does not include any substance listed in Table 302.4 of 40 C.F.R. Part 302 adopted August 14, 1989, under section 101(14) of the Federal Comprehensive Environmental Response, Compensation, and Liability Act of 1980, as amended by P.L. 99-499.

(20) "Onshore facility" means any facility, as defined in subsection (7) of this section, any part of which is located in, on, or under any land of the state, other than submerged land, that because of its location, could reasonably be expected to cause substantial harm to the environment by discharging oil into or on the navigable waters of the state or the adjoining shorelines.

(21) "On-the-job training" means learning procedures and equipment use through observation of experienced and competent personnel, and supervised hands-on practice.

(22) "Operations" means direct involvement in the transfer, storage, handling, or monitoring of oil at a facility in a capacity that involves the risk of an oil spill to waters of the state. This functional group includes but is not limited to the person-in-charge, storage tank operators, pipeline operators, and oil transfer monitors.

(23)(a) "Owner or operator" means:

(i) In the case of an onshore or offshore facility, any person owning or operating the facility; and

(ii) In the case of an abandoned onshore or offshore facility, the person who owned or operated the facility immediately before its abandonment.

(b) "Operator" does not include any person who owns the land underlying a facility if the person is not involved in the operations of the facility.

(24) "Passenger vessel" means a ship of three hundred or more gross tons with a fuel capacity of at least six thousand gallons carrying passengers for compensation.

(25) "Person" means any political subdivision, government agency, municipality, industry, public or private corporation, copartnership, association, firm, individual, or any other entity whatsoever.

(26) "Person-in-charge" means the individual identified as the person in charge of transfer operations as required under 33 C.F.R. 154.710.

(27) "Personnel" means individuals employed by, or under contract with, a facility.

(28) "Pipeline" means, for the purposes of subsection (7)(a)(i) of this section, a pipeline connected to a marine facility, and not owned or operated by the facility referred to in subsection (7)(a) of this section.

(29) "Ship" means any boat, ship, vessel, barge, or other floating craft of any kind.

(30) "Spill" means an unauthorized discharge of oil which enters waters of the state.

(31) "Supervisory" means involvement in directly supervising the transfer, storage, handling, or monitoring of oil at a facility by implementing operations policies and procedures that involve the risk of an oil spill to waters of the state.

(32) "Tank vessel" means a ship that is constructed or adapted to carry, or that carries, oil in bulk as cargo or cargo residue, and that:

(a) Operates on the waters of the state; or

(b) Transfers oil in a port or place subject to the jurisdiction of this state.

(33) "Waters of the state" includes lakes, rivers, ponds, streams, inland waters, underground water, salt waters, estuaries, tidal flats, beaches and lands adjoining the seacoast of the state, sewers, and all other surface waters and watercourses within the jurisdiction of the state of Washington.

[Statutory Authority: RCW 90.56.220. 93-01-089 (Order 91-64), § 173-180C-030, filed 12/16/92, effective 1/16/93.]

WAC 173-180C-040 Applicability. Personnel oil-handling training and certification programs for onshore and offshore facilities must be developed, approved, and implemented, pursuant to requirements in this chapter.

[Statutory Authority: RCW 90.56.220. 93-01-089 (Order 91-64), § 173-180C-040, filed 12/16/92, effective 1/16/93.]

WAC 173-180C-050 Training requirements. (1) Each onshore and offshore facility shall develop and implement oil spill prevention training for key supervisory, operations, maintenance, management, and indirect operations personnel identified pursuant to subsection (3) of this section. Training shall be designed, to the maximum extent practicable, to promote job competency and environmental awareness for the purpose of preventing oil spills. Non-English speaking personnel subject to the facility's training requirements shall be trained in a manner that allows comprehension by such personnel.

(2) Oil spill prevention training programs must be approved by the department pursuant to WAC 173-180C-080.

(3) The facility shall identify, in writing, the specific position titles which the facility has identified to be subject to its oil spill prevention training requirements. In making this determination, the facility shall evaluate the functions of facility personnel positions using the definitions of "key," "supervisory," "operations," "maintenance," "management," and "indirect operations" under WAC 173-180C-030. For cases where certain job titles associated with indirect operations can not be identified in advance, the facility shall identify the types of job orders or work sites which may involve the need for indirect operations oil spill prevention training.

(4) The facility shall identify, in writing, the specific initial classroom and/or on-the-job oil spill prevention training requirements for each position, including minimum hours, that are appropriate for each position given the facility's training needs and human factor risks.

(5) Requirements for training of operations and supervisory personnel shall focus on building personnel competency in operating procedures and spill prevention systems specific to the facility. Oil spill prevention training requirements shall incorporate the following training topics at a minimum:

(a) Overview of all oil handling, transfer, storage, and monitoring/leak detection operations at the facility;

(b) Operating procedures and checklists specific to trainee's job function;

(c) Problem assessment, including recognition of human factor risks and how they can be minimized;

(d) Awareness of preventative maintenance procedures;

(e) Awareness of local environmental sensitivity and oil spill impacts;

(f) Major components of facility's oil spill prevention plan;

(g) Major components of facility's operations manual;

(h) Major components of facility's oil spill contingency plan;

(i) Decision-making for abnormal operating events and emergencies, including emergency spill prevention and safe shut down conditions, responsibilities, and procedures;

(j) Routine and emergency communications procedures;

(k) Overview of applicable oil spill prevention and response laws and regulations; and

(l) Drug and alcohol use awareness, pursuant to WAC 173-180D-060(11).

(6) Requirements for initial oil spill prevention training of management personnel shall incorporate the following training topics at a minimum:

(a) Overview of all oil handling, transfer, storage, and monitoring/leak detection operations at the facility;

(b) Management role in operations and oil spill prevention;

(c) Recognition of human factor risks and how they can be minimized;

(d) Awareness of local environmental sensitivity and oil spill impacts;

(e) Major components of facility's oil spill prevention plan;

(f) Major components of facility's operations manual;

(g) Major components of facility's oil spill contingency plan;

(h) Decision-making for abnormal operating events and emergencies, including emergency spill prevention and safe shut down conditions, responsibilities, and procedures;

(i) Overview of applicable oil spill prevention and response laws and regulations; and

(j) Drug and alcohol use awareness, pursuant to WAC 173-180D-060(11).

(7) Requirements for initial oil spill prevention training of maintenance personnel shall incorporate the following training topics at a minimum:

(a) Overview of all oil handling, transfer, storage, and monitoring/leak detection operations at applicable maintenance work sites within the facility;

(b) Equipment problem assessment and preventative maintenance procedures;

(c) Awareness of local environmental sensitivity and oil spill impacts;

(d) Major components of facility's oil spill prevention plan;

(e) Major components of facility's operations manual;

(f) Major components of facility's oil spill contingency plan;

(g) Emergency spill prevention and safe shut down conditions, responsibilities, and procedures;

(h) Overview of applicable oil spill prevention and response laws and regulations; and

(i) Drug and alcohol use awareness, pursuant to WAC 173-180D-060(11).

(8) Requirements for initial oil spill prevention training of indirect operations personnel shall incorporate the following training topics at a minimum:

(a) Overview of oil handling, transfer, storage, and monitoring/leak detection operations at specific indirect operations work site within the facility;

(b) Awareness of local environmental sensitivity and oil spill impacts;

(c) Notification procedures for emergency spill prevention actions; and

(d) For facility employees, drug and alcohol use awareness, pursuant to WAC 173-180D-060(11).

(9) Training topics identified in subsections (5) through (8) of this section, do not prescribe fixed subject titles for class outlines or training organization. Facilities may combine or integrate these topics as appropriate, but must ensure that information on each topic is presented in the applicable personnel training program.

(10) The facility shall identify, in writing, the specific oil spill prevention continuing education requirements for each affected position, including minimum hours, that are appropriate given the facility's training needs and human factor risks. Ongoing training shall occur at least annually, and at a minimum address:

(a) Any changes in the core topics identified in subsections (5) through (8) of this section, unless affected personnel have already been informed about the change after its occurrence;

(b) Refresher awareness training on environmental sensitivity and oil spill impacts;

(c) Review and analysis of oil spills which have occurred during the past year;

(d) Refresher training on emergency spill prevention procedures; and

(e) For key supervisory, operations, and management personnel, a practice exercise of the facility's procedures for preventing a spill during a particular abnormal operations event.

(11) Facilities are encouraged to apply or modify existing training programs required under federal Process Safety Management requirements (29 C.F.R. 1910), Coast Guard Person-in-charge requirements (33 C.F.R. 154.710), and other federal/state training requirements in order to meet the above oil spill prevention training requirements.

(12) Existing personnel that have entered their current position prior to adoption of this chapter can be regarded as having met the facility's initial oil spill prevention training requirements if:

(a) The facility has documented that those personnel have received the required training in the past; or

(b) The facility attests in writing and in detail how those personnel have had on-the-job training or other experience equivalent to the facility's initial training requirements including type and frequency of past training when known.

(13) Facilities shall develop follow up remedial training for personnel clearly responsible for causing an oil spill while functioning in their position, unless such personnel no longer occupy a position identified under subsection (3) of this section.

(14) Contractors hired by the facility to perform key supervisory, operations, maintenance, management, or indirect operations functions, as identified by the facility under subsection (3) of this section, are considered "personnel" for the purposes of this chapter, and shall be subject to the same oil spill prevention training requirements as facility employees. The facility is responsible to validate that such contractors have met the facility's oil spill prevention training requirements before they perform a key supervisory, operations, maintenance, management, or indirect operations function.

(15) Facilities shall develop minimum training and/or experience qualifications for trainers who will demonstrate facility-specific procedures, equipment use, supervise practice sessions, and provide other on-the-job training to new operations personnel.

(16) Facilities shall develop and maintain written oil spill prevention training materials, such as training manuals or checklists.

(17) Oil spill prevention training shall be documented, and records shall be kept at the facility in a central and accessible location for at least five years from the date of training completion.

[Statutory Authority: RCW 90.56.220. 93-01-089 (Order 91-64), § 173-180C-050, filed 12/16/92, effective 1/16/93.]

WAC 173-180C-060 Certification program. (1) Each onshore and offshore facility shall develop and implement a program to certify that key supervisory and operations personnel identified pursuant to WAC 173-180C-050(3) have met the facility's oil spill prevention training program requirements, and are competent to perform the operations or supervisory functions associated with their position. The facility is not required to certify personnel other than key supervisory and operations personnel. The certification program shall be designed, to the maximum extent practicable, to ensure job competency and environmental awareness for the purpose of preventing oil spills.

(2) Certification programs must meet minimum criteria pursuant to WAC 173-180C-070.

(3) Certification programs must be approved by the department pursuant to WAC 173-180C-080.

[Statutory Authority: RCW 90.56.220. 93-01-089 (Order 91-64), § 173-180C-060, filed 12/16/92, effective 1/16/93.]

WAC 173-180C-070 Minimum criteria for certification programs. (1) The facility oil spill prevention certification program shall address all key supervisory and operations personnel identified pursuant to WAC 173-180C-050(3).

(2) The facility shall develop and maintain written certification procedures, including:

(a) Minimum competency requirements to achieve certification;

(b) The process to develop and test competency in key supervisory and operations personnel;

(c) The process to issue and track certificates; and

(d) Policies regarding loss or lack of certified status.

(3) The facility shall maintain a written certificate or other record for supervisory and operations personnel which have met the facility's certification requirements. This record shall document:

(a) The certified individual's name and position;

(b) Types and hours of training completed;

(c) Name of trainer;

(d) Results of performance tests and evaluations; and

(e) Signatures of the trainee and trainer.

(4) Copies of certification records shall be kept at the facility in a central and accessible location for at least five years from the date of certification.

(5) The facility certification program shall incorporate methods to evaluate and confirm job competency, including:

(a) A written examination, or oral examination documented in writing, which tests general knowledge about training topics identified under WAC 173-180C-050(5), with an appropriate passing score established by the facility;

(b) A practical evaluation of understanding and performance of routine and emergency operations specific to a position's job function, including:

(i) Observation of performance of each oil handling, transfer, storage, and monitoring duty assigned to a position prior to unsupervised performance of that duty; and

(ii) Practice exercises involving procedures to prevent a spill during abnormal operations events.

(6) The facility's program shall only provide for certification of an individual who has:

(a) Met the facility's oil spill prevention initial training requirements tied to the individual's position, as developed pursuant to WAC 173-180C-050(4); and

(b) Passed a competency evaluation developed under subsection (5) of this section.

(7) Recertification shall occur at least once every three years, based on:

(a) Successful completion of continuing education requirements; and

(b) Satisfactory performance in a reevaluation of competency as developed under subsection (5) of this section.

[Statutory Authority: RCW 90.56.220. 93-01-089 (Order 91-64), § 173-180C-070, filed 12/16/92, effective 1/16/93.]

WAC 173-180C-080 Program approval. (1) Facilities must develop or modify their training and certification program to meet rule criteria, begin implementing the program, and if necessary, update the description of this program in their oil spill prevention plan pursuant to chapter 173-180D WAC requirements:

(a) Within twelve months from adoption of this rule, for facilities with combined pipeline and aboveground tank oil storage capacity of one million gallons or more; and

(b) Within eighteen months from adoption of this rule, for facilities with combined pipeline and aboveground tank oil storage capacity of less than one million gallons.

(2) Within six months from the date that facilities must meet rule criteria pursuant to subsection (1) of this section, the facility shall have conducted its certification procedures, as developed pursuant to WAC 173-180C-070(2), for all

existing personnel that are subject to the facility's certification requirements and have entered their current position prior to adoption of this chapter.

(3) The department shall review the facility's training and certification program after the date that facilities must meet rule criteria pursuant to subsection (1) of this section. This review shall be accomplished by a general on-site inspection by the department through evaluation of the facility's training materials, testing records and certification records, and consultation with personnel.

(4) The department will notify facilities regarding approval status within thirty calendar days from completing inspections performed under subsection (2) of this section.

(5) Facilities that do not receive approval will have ninety calendar days to address deficiencies in their training and certification program, with options for a time extension based on the department's discretion. For those personnel that were trained or certified after the deadlines established in subsection (1) of this section but prior to program approval, retraining or recertification of such personnel due to changes required by the department's approval process can be postponed until the next retraining or recertification cycle as established by the facility pursuant to this chapter.

(6) Training and certification program approval is valid for five years. Significant changes to the facility's program must be documented through an update of the facility's prevention plan pursuant to chapter 173-180D WAC requirements. Minor upgrades in training and certification programs, such as expansion of training hours or updates to testing materials, are not required to be submitted to the department through a prevention plan update. The department may perform announced and unannounced inspections at facilities to verify compliance.

(7) A training and certification program shall be approved if, in addition to meeting criteria in WAC 173-180C-060 and 173-180C-070, it demonstrates that when implemented, it can, to the maximum extent practicable:

(a) Provide protection from human factor oil spill risks identified in the risk analysis required by WAC 173-180D-060(16);

(b) Minimize the likelihood that facility oil spills will occur and minimize the size and impacts of those facility oil spills which do occur;

(c) Provide effective oil spill prevention training to key supervisory, operations, maintenance, management, and indirect operations personnel;

(d) Ensure proper evaluation of job competency; and

(e) Provide an effective system to clearly document and track personnel training and certification.

(8) When reviewing programs, the department shall, in addition to the above criteria, consider the following at a minimum:

(a) The volume and type of oil(s) handled by facility, and frequency of oil-handling operations;

(b) Number of facility personnel;

(c) The history and circumstances of prior spills by similar types of facilities, including spill reports by ecology on-scene coordinators;

(d) Inspection reports;

(e) The presence of hazards unique to the facility, such as seismic activity or production processes; and

(f) The sensitivity and value of natural resources that could be affected by a spill from the facility.

(9) The department may approve a program with an expedited review as set out in this section if that program has been approved by a federal agency or other state which the department has deemed to apply approval criteria which equal or exceed those of the department.

(10) If the program receives approval, the facility owner or operator shall receive a certificate of approval describing the terms of approval, including expiration dates pursuant to subsection (6) of this section.

(a) The department may conditionally approve a program by requiring a facility owner or operator to operate with specific precautionary measures until unacceptable components of the program are resubmitted and approved.

(i) Precautionary measures may include, but are not limited to, reducing oil transfer rates, increasing personnel levels, or restricting operations to daylight hours or favorable weather conditions. Precautionary measures may also include additional requirements to ensure availability of response equipment.

(ii) A facility shall have thirty calendar days after the department gives notification of conditional status to make the required changes, with the option for an extension at the department's discretion. Facilities which fail to meet conditional requirements or make required changes in the time allowed shall lose conditional approval status.

(b) If approval is denied or revoked, the facility owner or operator shall receive an explanation of the factors for disapproval and a list of deficiencies. The facility may be subject to penalties identified in WAC 173-180C-095.

(c) The department's decisions under this chapter are reviewable in superior court.

(d) Approval of a training and certification program by the department does not constitute an express assurance regarding the adequacy of the program nor constitute a defense to liability imposed under state law.

(11) The department shall prepare guidance material to aid department staff responsible for program review. This material shall be made available to facility staff and other interested parties. While the guidance manual will be used as a tool to conduct review of a program, the department will not be bound by the contents of the manual. Oil spill prevention training and test materials developed by the department for technical assistance purposes may be used to meet part of a facility's training and certification program requirements under this chapter.

(12) The department may review a program following any spill at the facility.

[Statutory Authority: RCW 90.56.220. 93-01-089 (Order 91-64), § 173-180C-080, filed 12/16/92, effective 1/16/93.]

WAC 173-180C-090 Inspections. The department may verify compliance with this chapter by announced and unannounced inspections in accordance with RCW 90.48.090.

(1) During inspections, department staff may require appropriate facility personnel to demonstrate proof of training and certification.

(2) The department shall endeavor to provide a completed inspection report to the facility owner and operator within thirty calendar days from the inspection date.

[Statutory Authority: RCW 90.56.220. 93-01-089 (Order 91-64), § 173-180C-090, filed 12/16/92, effective 1/16/93.]

WAC 173-180C-095 Noncompliance with requirements. Any violation of this chapter may be subject to enforcement and penalty sanctions of RCW 90.48.144 as amended by section 27, chapter 73, Laws of 1992. These penalties include a civil penalty of up to ten thousand dollars a day for every violation.

[Statutory Authority: RCW 90.56.220. 93-01-089 (Order 91-64), § 173-180C-095, filed 12/16/92, effective 1/16/93.]

WAC 173-180C-098 Severability. If any provision of this chapter is held invalid, the remainder of the rule is not affected.

[Statutory Authority: RCW 90.56.220. 93-01-089 (Order 91-64), § 173-180C-098, filed 12/16/92, effective 1/16/93.]

Chapter 173-180D WAC
FACILITY OIL SPILL PREVENTION PLAN STANDARDS

WAC

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WAC 173-180D-010 Purpose. The purpose of this chapter is to establish onshore and offshore facility oil spill prevention plan requirements which, when followed, will:

(1) Minimize the likelihood that facility oil spills will occur;

(2) Minimize the size and impacts of those facility oil spills which do occur;

(3) Facilitate coordination of local, state, regional, tribal, and other prevention and contingency plans;

(4) Provide improved protection of Washington waters and natural resources from the impacts of oil spills; and

(5) Emphasize that oil spill prevention is the top priority strategy for protecting Washington waters and natural resources from the impacts of oil spills.

[Statutory Authority: RCW 90.56.300, 90.56.200 and 90.56.310. 92-15-035 (Order 91-59), § 173-180D-010, filed 7/8/92, effective 8/8/92.]

WAC 173-180D-020 Authority. RCW 90.56.200, 90.56.300, and 90.56.310 provide statutory authority for the prevention plan preparation and review requirements established by this chapter.

[Statutory Authority: RCW 90.56.300, 90.56.200 and 90.56.310. 92-15-035 (Order 91-59), § 173-180D-020, filed 7/8/92, effective 8/8/92.]

WAC 173-180D-030 Definitions. (1) "Best achievable protection" means the highest level of protection that can be achieved through the use of the best achievable technology and those staffing levels, training procedures, and operational methods that provide the greatest degree of protection achievable. The director's determination of best achievable protection shall be guided by the critical need to protect the state's natural resources and waters, while considering:

(a) The additional protection provided by the measures;

(b) The technological achievability of the measures; and

(c) The cost of the measures.

(2) "Best achievable technology" means the technology that provides the greatest degree of protection, taking into consideration processes that are being developed, or could feasibly be developed, given overall reasonable expenditures on research and development, and processes that are currently in use. In determining what is best achievable technology, the director shall consider the effectiveness, engineering feasibility, and commercial availability of the technology.

(3) "Bulk" means material that is stored or transported in a loose, unpackaged liquid, powder, or granular form capable of being conveyed by a pipe, bucket, chute, or belt system.

(4) "Cargo vessel" means a self-propelled ship in commerce, other than a tank vessel or a passenger vessel, of three hundred or more gross tons, including but not limited to, commercial fish processing vessels and freighters.

(5) "Department" means the state of Washington department of ecology.

(6) "Director" means the director of the state of Washington department of ecology.

(7) "Discharge" means any spilling, leaking, pumping, pouring, emitting, emptying, or dumping.

(8)(a) "Facility" means any structure, group of structures, equipment, pipeline, or device, other than a vessel, located on or near the navigable waters of the state that both:

(i) Transfers oil in bulk to or from a tank vessel or pipeline; and

(ii) Is used for producing, storing, handling, transferring, processing, or transporting oil in bulk.

(b) A facility does not include any:

(i) Railroad car, motor vehicle, or other rolling stock while transporting oil over the highways or rail lines of this state;

(ii) Underground storage tank regulated by the department or a local government under chapter 90.76 RCW;

(iii) Motor vehicle motor fuel outlet;

(iv) Facility that is operated as part of an exempt agricultural activity as provided in RCW 82.04.330; or

(v) Marine fuel outlet that dispenses three thousand gallons or less of fuel in a single transaction to a ship other than a tank vessel, cargo vessel, or passenger vessel. Marine fuel outlets that dispense more than three thousand gallons of fuel to any vessel in a single transaction do not meet this exemption.

(9) "Gross ton" means a vessel's approximate volume as defined in Title 46, United States Code of Federal Regulations, Part 69.

(10) "Marine facility" means any facility used for tank vessel wharfage or anchorage, including any equipment used for the purpose of handling or transferring oil in bulk to or from a tank vessel.

(11) "Maximum extent practicable" means the highest level of effectiveness that can be achieved through the use of facility personnel and best achievable technology. In determining what is the maximum extent practicable, the director shall consider, at a minimum, the effectiveness, engineering feasibility, commercial availability, safety, and the cost of the measures.

(12) "Navigable waters of the state" means those waters of the state, and their adjoining shorelines, that are subject to the ebb and flow of the tide and/or are presently used, have been used in the past, or may be susceptible for use to transport intrastate, interstate, or foreign commerce.

(13) "Offshore facility" means any facility, as defined in subsection (8) of this section, located in, on, or under any of the navigable waters of the state, but does not include a facility any part of which is located in, on, or under any land of the state, other than submerged land.

(14) "Oil" or "oils" means naturally occurring liquid hydrocarbons at atmospheric temperature and pressure coming from the earth, including condensate and natural gasoline, and any fractionation thereof, including, but not limited to, crude oil, petroleum, gasoline, fuel oil, diesel oil, oil sludge, oil refuse, and oil mixed with wastes other than dredged spoil, including oil-contaminated ballast or bilge water. Oil does not include any substance listed in Table 302.4 of 40 C.F.R. Part 302 adopted August 14, 1989, under section 101(14) of the Federal Comprehensive Environmental Response, Compensation, and Liability Act of 1980, as amended by P.L. 99-499.

(15) "Onshore facility" means any facility, as defined in subsection (8) of this section, any part of which is located in, on, or under any land of the state, other than submerged land, that because of its location, could reasonably be expected to cause substantial harm to the environment by discharging oil into or on the navigable waters of the state or the adjoining shorelines.

(16)(a) "Owner or operator" means:

(i) In the case of an onshore or offshore facility, any person owning or operating the facility; and

(ii) In the case of an abandoned onshore or offshore facility, the person who owned or operated the facility immediately before its abandonment.

(b) "Operator" does not include any person who owns the land underlying a facility if the person is not involved in the operations of the facility.

(17) "Passenger vessel" means a ship of three hundred or more gross tons with a fuel capacity of at least six thousand gallons carrying passengers for compensation.

(18) "Person" means any political subdivision, government agency, municipality, industry, public or private corporation, copartnership, association, firm, individual, or any other entity whatsoever.

(19) "Pipeline" means, for the purposes of subsection (8)(a)(i) of this section, a pipeline connected to a marine facility, and not owned or operated by the facility referred to in subsection (8)(a) of this section.

(20) "Plan" means oil spill prevention plan.

(21) "Ship" means any boat, ship, vessel, barge, or other floating craft of any kind.

(22) "Spill" means an unauthorized discharge of oil which enters waters of the state.

(23) "Tank vessel" means a ship that is constructed or adapted to carry, or that carries, oil in bulk as cargo or cargo residue, and that:

(a) Operates on the waters of the state; or

(b) Transfers oil in a port or place subject to the jurisdiction of this state.

(24) "Transporting" means, for the purposes of subsection (8)(b)(i) of this section, the act of moving oil over the highways or rail lines of this state, and the act of transferring oil to or from the rolling stock.

(25) "Waters of the state" includes lakes, rivers, ponds, streams, inland waters, underground water, salt waters, estuaries, tidal flats, beaches and lands adjoining the seacoast of the state, sewers, and all other surface waters and watercourses within the jurisdiction of the state of Washington.

[Statutory Authority: RCW 90.56.300, 90.56.200 and 90.56.310. 92-15-035 (Order 91-59), § 173-180D-030, filed 7/8/92, effective 8/8/92.]

WAC 173-180D-040 Applicability. Oil spill prevention plans for onshore and offshore facilities must be prepared, submitted, and implemented, pursuant to requirements in this chapter.

[Statutory Authority: RCW 90.56.300, 90.56.200 and 90.56.310. 92-15-035 (Order 91-59), § 173-180D-040, filed 7/8/92, effective 8/8/92.]

WAC 173-180D-050 Plan preparation. (1) Each onshore and offshore facility shall prepare a plan for prevention of oil spills from the facility into the waters of the state, and for the protection of fisheries and wildlife, other natural resources, and public or private property from oil spills.

(2) Plans shall be thorough and contain enough information, analyses, supporting data, and documentation to demonstrate the plan holder's ability to meet the requirements of this chapter.

(3) *Spill Prevention Countermeasure and Control Plans, Operation Manuals,* and other prevention documents which meet federal requirements under 33 C.F.R. 154, 33 C.F.R. 156, 40 C.F.R. 109, 40 C.F.R. 112, or the Federal Oil Pollution Act of 1990 may be submitted to satisfy plan requirements under this chapter if the department deems that such federal requirements equal or exceed those of the department, or if the plans are modified or appended to satisfy plan requirements under this chapter.

(4) Plans which meet requirements of other states may be submitted to satisfy plan requirements under this chapter if the department deems that such state requirements equal or exceed those of the department, or if the plans are modified or appended to satisfy plan requirements under this chapter.

(5) Prevention plans may be combined with contingency plans required by chapter 173-181 WAC.

(6) Plans, when implemented, shall be designed to be capable of providing the best achievable protection from damages caused by the discharge of oil into the waters of the state. At a minimum, plans shall meet the criteria specified in this chapter.

[Statutory Authority: RCW 90.56.300, 90.56.200 and 90.56.310. 92-15-035 (Order 91-59), § 173-180D-050, filed 7/8/92, effective 8/8/92.]

WAC 173-180D-055 Plan format requirements. (1) Plans shall be organized in a format which provides easy access to prevention information. Plans shall be divided into a system of chapters and sections. Chapters and sections shall be numbered and identified with a system of index tabs.

(2) Plans shall be formatted to allow replacement of chapter and appendix pages with revisions, without requiring replacement of the entire plan.

(3) If combined with a contingency plan, the prevention plan shall be clearly separated from contingency plan elements.

(4) Prevention plan content requirements specified in WAC 173-180D-060 are presented in suggested but not requisite order.

(5) Computerized plans, in addition to a hard copy, may be submitted to the department.

[Statutory Authority: RCW 90.56.300, 90.56.200 and 90.56.310. 92-15-035 (Order 91-59), § 173-180D-055, filed 7/8/92, effective 8/8/92.]

WAC 173-180D-060 Plan content requirements. (1) Each plan shall contain a submittal agreement which:

(a) Includes the name, address, and phone number of submitting party;

(b) Verifies acceptance of the plan by the owner or operator of the facility by either signature of the owner or operator or signature by a person with authority to bind the corporation which owns or operates the facility;

(c) Commits the owner or operator of the facility to execution of the plan, and verifies that the plan holder is authorized to make appropriate expenditures in order to execute plan provisions; and

(d) Includes the name, location, and address of the facility, type of facility, starting date of operations, types of oil(s) handled, and oil volume capacity.

(2) Each plan shall include a log sheet to record amendments to the plan. The log sheet shall be placed at the front of the plan. The log sheet shall provide for a record of the section amended, the date that the old section was replaced with the amended section, verification that the department was notified of the amendment pursuant to WAC 173-180D-085, and the initials of the individual making the change. A description of the amendment and its purpose shall also be included in the log sheet, or filed in the form of an amendment letter immediately after the log sheet.

(3) Each plan shall include a detailed table of contents based on chapter, section, and appendix numbers and titles, as well as tables and figures.

(4) Each plan shall describe its purpose and scope, including but not limited to:

(a) The onshore facility or offshore facility operations covered by the plan;

(b) The relationship of the prevention plan to other oil spill plans and operation manuals held by the facility; and

(c) The relationship of the plan to all applicable local, state, regional, tribal, and federal government prevention plans, including the Washington Statewide Master Oil and Hazardous Substance Spill Contingency Plan.

(d) Information required under facility oil spill contingency plan standards in WAC 173-181-050(4); spill prevention, countermeasure, and control plan standards in 40 C.F.R. 112.4(a); or facility operations manual standards in 33 C.F.R. 154.310(1-4) may be used to address (a) of this subsection.

(5) Each plan shall describe the procedures and time periods for updating the plan and distributing the plan and updates to appropriate parties.

(6) Each plan shall establish that the facility is in compliance with the Federal Oil Pollution Act of 1990. Within thirty calendar days after federal deadlines for facility requirements under that act, the plan shall be updated to include any applicable evidence of compliance.

(7) Within thirty calendar days after evidence of financial responsibility is required by rules adopted by the department pursuant to chapter 88.44 RCW, the plan shall be updated to include any applicable evidence of compliance.

(8) Each plan shall describe the types and frequency of spill prevention training provided to personnel. Within thirty calendar days after personnel certification is required by rules adopted by the department pursuant to RCW 90.56.220, the plan shall be updated to include any applicable evidence of compliance.

(9) Within thirty calendar days after submittal of an operations manual is required by rules adopted by the department pursuant to RCW 90.56.230, the plan shall be updated to include any applicable evidence of compliance.

(10) Each plan shall provide evidence that the facility has an approved oil spill contingency plan or has submitted a contingency plan to the department in accordance with standards and deadlines established by chapter 173-181 WAC.

(11) Each plan shall address the facility's alcohol and drug use awareness and treatment program for all facility personnel.

(a) The plan shall include at a minimum:

(i) Documentation of an alcohol and drug awareness program. The awareness program shall provide training and information materials to all employees on recognition of alcohol and drug abuse; treatment opportunities, including opportunities under the Alcohol and Drug Addiction Treatment and Support Act pursuant to chapter 388-40 WAC; and applicable company policies;

(ii) A description of the facility's existing drug and alcohol treatment programs; and

(iii) A description of existing provisions for the screening of supervisory and key employees for alcohol and drug abuse and related work impairment.

(b) Evidence of conformance with applicable federal *"Drug-Free Workplace"* guidelines or other federal or state requirements may be used to address (a) of this subsection.

(12) Each plan shall describe the facility's existing maintenance and inspection program.

(a) The description shall summarize:

(i) Frequency and type of all regularly scheduled inspection and preventive maintenance procedures for tanks; pipelines; other key storage, transfer, or production equipment, including associated pumps, valves, and flanges; and overpressure safety devices and other spill prevention equipment;

(ii) Integrity testing of storage tanks and pipelines, including but not limited to frequency; pressures used

(including ratio of test pressure to maximum operating pressure, and duration of pressurization); means of identifying that a leak has occurred; and measures to reduce spill risk if test material is product;

(iii) External and internal corrosion detection and repair;

(iv) Damage criteria for equipment repair or replacement; and

(v) Any other aspect of the maintenance and inspection program.

(b) The plan shall include a current index of maintenance and inspection records of the storage and transfer facilities and related equipment.

(c) Documentation required under 40 C.F.R. 112.7(e) or 33 C.F.R. 154 Subparts C and D may be used to address elements of this subsection.

(d) Existing copies of the facility's maintenance and inspection records for the five-year period prior to plan submittal shall be maintained and shall be available for inspection if requested by the department. The plan shall document the use of a system to maintain such records over a five-year period for subsequent activity.

(13) Each plan shall describe spill prevention technology currently installed and in use, including:

(a) Tank and pipeline materials and design;

(b) Storage tank overflow alarms, low level alarms; tank overflow cut-off switches; automatic transfer shut-down systems; methods to alert operators; system accuracy; and tank fill margin remaining at time of alarm activation in terms of vertical distance, quantity of liquid, and time before overflow would occur at maximum pumping rate;

Documentation required under 40 C.F.R. 112.7 (e)(2)(viii) or 33 C.F.R. 154.310 (a)(12-13) may be used to address some or all of these elements;

(c) Leak detection systems for both active and nonactive pipeline conditions, including detection thresholds in terms of duration and percentage of pipeline flow; limitations on system performance due to normal pipeline events; and procedures for operator response to leak alarms;

Documentation required under 40 C.F.R. 112.7(e)(3) may be used to address some or all of these elements;

(d) Rapid pump and valve shutdown procedures, including means of ensuring that surge and over-pressure conditions do not occur; rates of valve closure; sequence and time duration (average and maximum) for entire procedure; automatic and remote control capabilities; and displays of system status for operator use;

Documentation required under 40 C.F.R. 112.7(e)(3) may be used to address some or all of these elements;

(e) Methods to minimize of post-shutdown residual drain-out from pipes, including criteria for locating valves; identification of all valves (including types and means of operation) that may be open during a transfer process; and any other techniques for reducing drain-out;

(f) Means of relieving pressure due to thermal expansion of liquid in pipes during quiescent periods;

(g) Secondary containment, including capacity, permeability, and material design;

Documentation required under 40 C.F.R. 112.7(e)(1) and (2)(iii-iv) may be used to address some or all of these elements;

(h) Internal and external corrosion control coatings and monitoring;

(i) Storm water and other drainage retention, treatment, and discharge systems, including maximum storage capacities and identification of any applicable discharge permits;

Documentation required under 40 C.F.R. 112.7(e)(1) and (2)(iii and ix) may be used to address some or all of these elements; and

(j) Criteria for suspension of operations while leak detection or other spill control systems are inoperative.

(14) Each plan shall describe measures taken to ensure facility site security, including:

(a) Procedures to control and monitor facility access;

(b) Facility lighting (documentation required under 33 C.F.R. 154.570 may be used to address some or all of this element);

(c) Signage; and

(d) Right of way identification or other measures to prevent third-party damage (documentation required under 40 C.F.R. 112.7(e)(3)(v) and (9) may be used to address some or all of this element).

(15) Each plan shall list any discharges of oil in excess of twenty-five barrels (one thousand fifty gallons) to the land or waters of the state which occurred during the five-year period prior to the plan submittal date. For each discharge, the plan shall describe:

(a) Quantity;

(b) Type of oil;

(c) Geographic location;

(d) Analysis of cause, including source(s) of discharged oil and contributing factors (e.g., third party human error, adverse weather, etc.); and

(e) Measures taken to remedy the cause and prevent a reoccurrence;

For the period between July 1, 1987, and January 1, 1993, the facility shall provide existing information regarding (a) through (e) of this subsection for such discharges, and shall document the use of a system to record complete information for subsequent discharges.

(16) Each plan shall include a detailed and comprehensive analysis of facility spill risks based on the information required in subsections (11) through (15) of this section, and other relevant information.

(a) The risk analysis shall:

(i) Evaluate the construction, age, corrosion, inspection and maintenance, operation, and oil spill risk of the transfer, production, and storage systems in the facility, including piping, tanks, pumps, valves, and associated equipment;

(ii) Evaluate spill minimization and containment systems within the facility;

(iii) Be prepared under the supervision of (and bear the seal of) a licensed professional engineer or another individual which the department has deemed to have an acceptable level of expertise.

(b) Documentation required under 40 C.F.R. 112.7(b) and (e) may be used to address some or all of the elements of this subsection.

(17) Each plan shall describe how the facility will incorporate those measures that will provide best achievable pro-

tection to address the spill risks identified in the risk analysis required in subsection (16) of this section.

(a) Information documented pursuant to 40 C.F.R. 112.7(e) and 33 C.F.R. 154.310 may be used to address some or all of these elements of this subsection.

(b) Within six months after facility operation standards are adopted by rule by the department pursuant to RCW 90.56.220, the plan shall be updated to address how the facility will meet prevention standards and deadlines established by that rule.

(18) If the prevention plan is combined with a contingency plan, the prevention plan may incorporate information required in this section by reference if that information is provided in the contingency plan.

[Statutory Authority: RCW 90.56.300, 90.56.200 and 90.56.310. 92-15-035 (Order 91-59), § 173-180D-060, filed 7/8/92, effective 8/8/92.]

WAC 173-180D-065 Plan submittal. (1) Plans for onshore and offshore facilities shall be submitted to the department by January 1, 1993.

(2) Any onshore or offshore facility that first begins operating after the deadlines stated in subsection (1) of this section shall submit a plan to the department at least sixty-five calendar days prior to the beginning of operations.

(3) Three copies of the plan and appendices shall be delivered to:

Spill Management Section, Prevention Plan Review
Washington Department of Ecology
P.O. Box 47600
Olympia, WA 98504-7600

(4) Onshore and offshore facility plans may be submitted by:

(a) The facility owner or operator; or

(b) A primary response contractor approved by the department pursuant to WAC 173-181-090, in conformance with signature requirements under WAC 173-180D-060(1).

(5) A single plan may be submitted for more than one facility, provided that the plan meets the requirements in this chapter for each facility listed.

(6) The plan submitter may request that proprietary information be kept confidential under RCW 43.21A.160.

[Statutory Authority: RCW 90.56.300, 90.56.200 and 90.56.310. 92-15-035 (Order 91-59), § 173-180D-065, filed 7/8/92, effective 8/8/92.]

WAC 173-180D-070 Plan review. (1) The department shall endeavor to review each plan in sixty-five calendar days. If the plan is submitted in conjunction with a contingency plan required under chapter 173-181 WAC, the department may extend the prevention plan review period an additional sixty-five calendar days. Upon receipt of a plan, the department shall evaluate promptly whether the plan is incomplete. If the department determines that a plan is incomplete, the submitter shall be notified of deficiencies. The review period shall not begin until the department receives a complete plan.

(2) The department shall regularly notify interested parties of any prevention plans which are under review by the department, and make plans available for review by all department programs, other state, local, tribal, and federal agencies, and the public. The department shall accept comments on the plan from any interested party during the first thirty calendar days of review by the department.

(3) A plan shall be approved if, in addition to meeting criteria in WAC 173-180D-055 and 173-180D-060, it demonstrates that when implemented, it can:

(a) Provide best achievable protection from damages caused by the discharge of oil into the waters of the state;

(b) Minimize the likelihood that facility oil spills will occur;

(c) Minimize the size and impacts of those facility oil spills which do occur; and

(d) After the adoption of facility operation standards by rule by the department pursuant to RCW 90.56.220:

(i) Provide for compliance with prevention standards and deadlines established by facility operation standards adopted by rule by the department pursuant to RCW 90.56.220; and

(ii) Provide, to the maximum extent practicable, protection from oil spill risk factors identified in the risk analysis required by WAC 173-180D-060(16), for those risk factors not addressed by facility operation standards adopted by rule by the department pursuant to RCW 90.56.220.

(4) When reviewing plans, the department shall, in addition to the above criteria, consider the following at a minimum:

(a) The volume and type of oil(s) addressed by the plan;

(b) The history and circumstances of prior spills by similar types of facilities, including spill reports by ecology on-scene coordinators;

(c) Inspection reports;

(d) The presence of hazards unique to the facility, such as seismic activity or production processes;

(e) The sensitivity and value of natural resources within the geographic area covered by the plan; and

(f) Any pertinent local, state, tribal, federal agency, or public comments received on the plan.

(5) The department may approve a plan based upon an expedited review pursuant to criteria set out in this chapter, if that plan has been approved by a federal agency or other state which the department has deemed to apply approval criteria which equal or exceed those of the department.

(6) The department shall endeavor to notify the facility owner or operator within five working days after the review is completed whether the plan has been approved.

(a) If the plan receives approval, the facility owner or operator shall receive a certificate of approval describing the terms of approval, including expiration dates pursuant to WAC 173-180D-085(4).

(b) The department may conditionally approve a plan by requiring a facility owner or operator to operate with specific precautionary measures until unacceptable components of the plan are resubmitted and approved.

(i) Precautionary measures may include, but are not limited to, reducing oil transfer rates, increasing personnel levels, or restricting operations to daylight hours or favorable weather conditions. Precautionary measures may also include additional requirements to ensure availability of response equipment.

(ii) A plan holder shall have thirty calendar days after the department gives notification of conditional status to submit

to the department and implement required changes, with the option for an extension at the department's discretion. Plan holders who fail to meet conditional requirements or provide required changes in the time allowed shall lose conditional approval status.

(c) If plan approval is denied or revoked, the facility owner or operator shall receive an explanation of the factors for disapproval and a list of deficiencies. The facility shall not continue oil storage, transfer, production, or other operations until a plan for that facility has been approved.

(d) The department's decisions under this chapter are reviewable in superior court.

(e) If a plan holder demonstrates an inability to comply with an approved prevention plan or otherwise fails to comply with requirements of this chapter, the department may, at its discretion:

(i) Place conditions on approval pursuant to (b) of this subsection; or

(ii) Revoke its approval pursuant to (c) of this subsection.

(f) Approval of a plan by the department does not constitute an express assurance regarding the adequacy of the plan nor constitute a defense to liability imposed under state law.

(7) The department shall prepare a manual to aid department staff responsible for plan review. This manual shall be made available to plan preparers. While the manual will be used as a tool to conduct review of a plan, the department will not be bound by the contents of the manual.

(8) The department shall work with the office of marine safety to ensure that no duplication of regulatory responsibilities occurs in the review of prevention plans from marine facilities.

[Statutory Authority: RCW 90.56.300, 90.56.200 and 90.56.310. 92-15-035 (Order 91-59), § 173-180D-070, filed 7/8/92, effective 8/8/92.]

WAC 173-180D-075 Inspections. (1) The department may verify compliance with this chapter by announced and unannounced inspections in accordance with RCW 90.48.090.

(2) During inspections, department staff may require the plan holder to test operations of spill prevention technology installed in the facility.

(3) The department shall endeavor to provide a completed inspection report to the facility owner and operator within thirty calendar days from the inspection date.

[Statutory Authority: RCW 90.56.300, 90.56.200 and 90.56.310. 92-15-035 (Order 91-59), § 173-180D-075, filed 7/8/92, effective 8/8/92.]

WAC 173-180D-080 Plan maintenance and use. (1) Each facility covered by the plan shall conspicuously locate copies of the plan within the facility to ensure that a copy of the plan is immediately accessible to all facility personnel involved in supervising or implementing oil handling operations.

(2) Facilities shall ensure that all employees involved in oil transfer, production, or storage operations are familiar with the plan provisions through regular training. Orientation materials for new employees involved in oil transfer, production, or storage operations shall contain a copy of the plan.

[Statutory Authority: RCW 90.56.300, 90.56.200 and 90.56.310. 92-15-035 (Order 91-59), § 173-180D-080, filed 7/8/92, effective 8/8/92.]

WAC 173-180D-085 Plan update timeline. (1) The department shall be notified in writing as soon as possible and prior to completion of any significant change which could affect the plan. If the change will reduce the facility's ability to implement the plan, the plan holder shall also provide a schedule for the return of the plan to full implementation capability.

(a) A significant change includes, but is not limited to:

(i) A change in the owner or operator of the facility;

(ii) A change in the types of oil handled at the facility;

(iii) A five percent or greater change in the facility's oil handling capacity;

(iv) Noncompliance with the Federal Oil Pollution Act of 1990;

(v) Noncompliance with state financial responsibility requirements developed under chapter 88.44 RCW; and

(vi) A substantial change in oil spill prevention technology installed at the facility, or other substantial changes to facility equipment, operations, personnel procedures, or any other change, including compliance with amended or new rules adopted by the department, which substantially affects the level of risk described pursuant to WAC 173-180D-060(16).

(b) Changes which are not considered significant include, but are not limited to, minor variations (less than five percent) in oil handling capacity, maintenance schedules, and operating procedures, provided that none of these changes will increase the risk of a spill.

(c) The facility shall update the plan's list of discharges, as required by WAC 173-180D-060(15), within thirty calendar days after an oil discharge by the facility in excess of twenty-five barrels (one thousand fifty gallons).

(d) A facsimile will be considered written notice for the purposes of this subsection.

(e) Failure to notify the department of significant changes shall be considered noncompliance with this chapter and subject to provisions of WAC 173-180D-070 (6)(e).

(2) If the department finds that, as a result of the change, the plan no longer meets approval criteria pursuant to WAC 173-180D-070, the department may, at its discretion, place conditions on approval or revoke approval in accordance with WAC 173-180D-070 (6)(e). The department may also require the plan holder to amend its plan to incorporate the change.

(3) Within thirty calendar days of making a change to the prevention plan, the facility owner or operator shall distribute the amended page(s) of the plan to the department and other plan holders.

(4) Plans shall be reviewed by the department at least every five years pursuant to WAC 173-180D-070. Plans shall be submitted for reapproval unless the plan holder submits a letter requesting that the department review the plan already in the department's possession. The plan holder shall submit the plan or such a letter at least sixty-five calendar days in advance of the plan expiration date.

(5) The department may review a plan following any spill at the facility.

[Statutory Authority: RCW 90.56.300, 90.56.200 and 90.56.310. 92-15-035 (Order 91-59), § 173-180D-085, filed 7/8/92, effective 8/8/92.]

WAC 173-180D-090 Noncompliance with plan requirements. (1) Any violation of this chapter may be subject to the enforcement and penalty sanctions of RCW 90.56.300 and 90.56.310.

(2) In addition to other penalties, the department may assess a civil penalty of up to one hundred thousand dollars against any person who violates this section. Each day that a facility or person violates this section shall be considered a separate violation.

[Statutory Authority: RCW 90.56.300, 90.56.200 and 90.56.310. 92-15-035 (Order 91-59), § 173-180D-090, filed 7/8/92, effective 8/8/92.]

WAC 173-180D-098 Severability. If any provision of this chapter is held invalid, the remainder of the rule is not affected.

[Statutory Authority: RCW 90.56.300, 90.56.200 and 90.56.310. 92-15-035 (Order 91-59), § 173-180D-098, filed 7/8/92, effective 8/8/92.]

Chapter 173-181 WAC
FACILITY CONTINGENCY PLAN AND RESPONSE CONTRACTOR STANDARDS

WAC

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WAC 173-181-010 Purpose. The purpose of this chapter is to establish onshore and offshore facility oil spill contingency plan requirements and response contractor standards which, when followed, will:

(1) Maximize the effectiveness and timeliness of oil spill response by responsible parties and response contractors;

(2) Ensure readiness of equipment and personnel;

(3) Support coordination with state, federal, and other contingency plans; and

(4) Provide improved protection of Washington waters and natural resources from the impacts of oil spills.

[Statutory Authority: RCW 90.48.035. 91-22-087 (Order 91-12), § 173-181-010, filed 11/5/91, effective 12/6/91.]

WAC 173-181-020 Authority. RCW 90.48.371, 90.48.372, 90.48.373, 90.48.374, 90.48.375, 90.48.376, 90.48.377, and 90.48.380, as recodified by section 1115, chapter 200, Laws of 1991, provide statutory authority for the contingency plan preparation and review requirements and response contractor standards established by this chapter.

[Statutory Authority: RCW 90.48.035. 91-22-087 (Order 91-12), § 173-181-020, filed 11/5/91, effective 12/6/91.]

WAC 173-181-030 Definitions. (1) "Average efficiency factor" means a factor used to estimate limitations of equipment efficiency from variables such as sea state, current velocity, or visibility.

(2) "Best achievable technology" means the technology that provides the greatest degree of protection, taking into consideration processes that are developed, or could feasibly be developed given overall reasonable expenditures on research and development, and processes that are currently in use. In determining what is best achievable technology, the director shall consider the effectiveness, engineering feasibility, and commercial availability of the technology.

(3) "Board" means the pollution control hearings board.

(4) "Bulk" means material that is stored or transported in a loose, unpackaged liquid, powder, or granular form capable of being conveyed by a pipe, bucket, chute, or belt system.

(5) "Cargo vessel" means a self-propelled ship in commerce, other than a tank vessel or a passenger vessel, of greater than three hundred or more gross tons, including but not limited to commercial fish processing vessels and freighters.

(6) "Department" means the state of Washington department of ecology.

(7) "Director" means the director of the state of Washington department of ecology.

(8) "Discharge" means any spilling, leaking, pumping, pouring, emitting, emptying, or dumping.

(9)(a) "Facility" means any structure, group of structures, equipment, pipeline, or device, other than a vessel, located on or near the navigable waters of the state that (both):

(i) Transfers oil in bulk to or from a tank vessel or pipeline; and

(ii) Is used for producing, storing, handling, transferring, processing, or transporting oil in bulk.

(b) A facility does not include any:

(i) Railroad car, motor vehicle, or other rolling stock while transporting oil over the highways or rail lines of this state;

(ii) Underground storage tank regulated by the department or a local government under chapter 90.76 RCW;

(iii) Motor vehicle motor fuel outlet;

(iv) Facility that is operated as part of an exempt agricultural activity as provided in RCW 82.04.330; or

(v) Marine fuel outlet that does not dispense more than three thousand gallons of fuel to a ship that is not a tank vessel, cargo vessel, or passenger vessel, in a single transaction.

(10) "Gross ton" means a vessel's approximate volume as defined under Title 46, United States Code of Federal Regulations, Part 69.

(11) "Interim storage site" means a site used to temporarily store recovered oil or oily waste until the recovered oil or oily waste is disposed of at a permanent disposal site. Interim storage sites include trucks, barges, and other vehicles used to store recovered oil or oily waste until transport begins.

(12) "Liquefied petroleum gas" means petroleum gas converted to a liquid state by pressure and cooling, including but not limited to natural gas, butane, and propane.

(13) "Marine facility" means any facility used for tank vessel wharfage or anchorage, including any equipment used for the purpose of handling or transferring oil in bulk to or from a tank vessel.

(14) "Maximum extent practicable" means the highest level of effectiveness that can be achieved through staffing levels, training procedures, and best achievable technology. In determining what is the maximum extent practicable, the director shall consider the effectiveness, engineering feasibility, commercial availability, safety, and the cost of the measures.

(15) "Navigable waters of the state" means those waters of the state, and their adjoining shorelines, that are subject to the ebb and flow of the tide and/or are presently used, have been used in the past, or may be susceptible for use to transport intrastate, interstate, or foreign commerce.

(16) "Offshore facility" means any facility, as defined in subsection (9) of this section, located in, on, or under any of the navigable waters of the state, but does not include a facility, any part of which is located in, on, or under any land of the state, other than submerged land.

(17) "Oil" or "oils" means naturally occurring liquid hydrocarbons at atmospheric temperature and pressure coming from the earth, including condensate and natural gasoline, and any fractionation thereof, including, but not limited to, crude oil, petroleum, gasoline, fuel oil, diesel oil, oil sludge, oil refuse, and oil mixed with wastes other than dredged spoil. Oil does not include any substance listed in Table 302.4 of 40 C.F.R. Part 302 adopted August 14, 1989, under section 101(14) of the Federal Comprehensive Environmental Response, Compensation, and Liability Act of 1980, as amended by P.L. 99-499.

(18) "Oily waste" means oil contaminated waste resulting from an oil spill or oil spill response operations.

(19) "Onshore facility" means any facility, as defined in subsection (9) of this section, any part of which is located in, on, or under any land of the state, other than submerged land, that because of its location, could reasonably be expected to cause substantial harm to the environment by discharging oil into or on the navigable waters of the state or the adjoining shorelines.

(20)(a) "Owner or operator" means:

(i) In the case of an onshore or offshore facility, any person owning or operating the facility; and

(ii) In the case of an abandoned onshore or offshore facility, the person who owned or operated the facility immediately before its abandonment.

(b) "Operator" does not include any person who owns the land underlying a facility if the person is not involved in the operations of the facility.

(21) "Passenger vessel" means a ship of greater than three hundred or more gross tons or five hundred or more international gross tons carrying passengers for compensation.

(22) "Person" means any political subdivision, government agency, municipality, industry, public or private corporation, copartnership, association, firm, individual, or any other entity whatsoever.

(23) "Pipeline" means, for the purposes of subsection (9)(a)(i) of this section, a pipeline connected to a marine facility, and not owned or operated by the facility referred to in subsection (9)(a) of this section.

(24) "Plan" means oil spill response, cleanup, and disposal contingency plan.

(25) "Primary response contractor" means a response contractor that is directly responsible to a contingency plan holder, either by a contract or written agreement.

(26) "Response contractor" means an individual, organization, association, or cooperative that provides or intends to provide equipment and/or personnel for oil spill containment, cleanup, and/or removal activities.

(27) "Ship" means any boat, ship, vessel, barge, or other floating craft of any kind.

(28) "Spill" means an unauthorized discharge of oil which enters waters of the state.

(29) "Tank vessel" means a ship that is constructed or adapted to carry, or that carries, oil in bulk as cargo or cargo residue, and that:

(a) Operates on the waters of the state; or

(b) Transfers oil in a port or place subject to the jurisdiction of this state.

(30) "Waters of the state" includes lakes, rivers, ponds, streams, inland waters, underground water, salt waters, estuaries, tidal flats, beaches and lands adjoining the seacoast of the state, sewers, and all other surface waters and watercourses within the jurisdiction of the state of Washington.

(31) "Worst case spill" means:

(a) For an offshore facility, the largest possible spill considering storage, production, and transfer capacity complicated by adverse weather conditions (during which wind, reduced visibility, and sea state hinder but do not preclude normal response operations); or

(b) For an onshore facility, the entire volume of the largest above ground storage tank on the facility site complicated by adverse weather conditions (during which wind, reduced visibility, and sea state hinder but do not preclude normal response operations), unless the department determines that a larger volume is more appropriate given a particular facility's site characteristics and storage, production, and transfer capacity.

[Statutory Authority: RCW 90.48.035. 91-22-087 (Order 91-12), § 173-181-030, filed 11/5/91, effective 12/6/91.]

WAC 173-181-035 Applicability. (1) Oil spill response, cleanup, and disposal contingency plans must be prepared, submitted, and used pursuant to requirements in this chapter, for onshore and offshore facilities.

(2) Federal plans required under 33 C.F.R. 154, 40 C.F.R. 109, 40 C.F.R. 110, or the Federal Oil Pollution Act of 1990 may be submitted to satisfy plan requirements under this chapter if the department deems that such federal requirements possess approval criteria which equal or exceed those of the department.

(3) Response contractors must be approved by the department before they may serve as primary response contractors for an onshore or offshore facility contingency plan.

(4) For those sections of contingency plans which address liquified petroleum gases, the department may excuse plan holders from meeting requirements in this chapter that are not applicable to spill response for liquified petroleum gases due to their physical properties.

[Statutory Authority: RCW 90.48.035. 91-22-087 (Order 91-12), § 173-181-035, filed 11/5/91, effective 12/6/91.]

WAC 173-181-040 Plan preparation. (1) Each onshore and offshore facility shall prepare a contingency plan for the containment and cleanup of oil spills from the facility into the waters of the state, and for the protection of fisheries and wildlife, other natural resources, and public or private property from such spills.

(2) Plans shall be in a form usable for oil spill control, containment, cleanup, and disposal operations and shall be capable of being located according to requirements in WAC 173-181-075.

(3) Plans shall be thorough and contain enough information, analyses, supporting data, and documentation to demonstrate the plan holder's ability to meet the requirements of this chapter.

(4) Plans shall be designed to be capable to the maximum extent practicable, when implemented, of promptly and properly removing oil and minimizing environmental damage from a variety of spill sizes, including small chronic spills, and worst case spills. At a minimum, plans shall meet the criteria specified in WAC 173-181-045 and 173-181-050; criteria are presented in suggested but not requisite order.

[Statutory Authority: RCW 90.48.035. 91-22-087 (Order 91-12), § 173-181-040, filed 11/5/91, effective 12/6/91.]

WAC 173-181-045 Plan format requirements. (1) Plans shall be prepared using a combined narrative and graphic format which facilitates both the study of detailed spill response information and quick access to general information given emergency information needs and time constraints.

(2) Plans shall be divided into a system of chapters and appendices. Chapters and sections shall be numbered. Chapters should be reserved primarily for information on emergency response and cleanup operations, such as notification procedures or description of the spill response organization structure. Appendices should be used primarily for supplemental background and documentation information, such as response scenarios or description of drills and exercises.

(3) A system of index tabs shall be used to provide easy reference to particular chapters or appendices.

(4) Plans shall be formatted to allow replacement of chapter or appendix pages with revisions without requiring replacement of the entire plan.

(5) A simplified field document suitable for on-site use in the event of a spill and summarizing key notification and action elements of the plan shall also be prepared and submitted as part of the plan.

(6) Computerized plans may be submitted to the department in addition to a hard copy. Computerized plans, accompanied by a hard copy, may be used to meet the requirements of WAC 173-181-075.

[Statutory Authority: RCW 90.48.035. 91-22-087 (Order 91-12), § 173-181-045, filed 11/5/91, effective 12/6/91.]

WAC 173-181-050 Plan content requirements. (1) Each plan shall contain a submittal agreement which:

(a) Includes the name, address, and phone number of the submitting party;

(b) Verifies acceptance of the plan, including any incorporated contingency plans, by the owner or operator of the facility by either signature of the owner or operator or signature by a person with authority to bind the corporation which owns such facility;

(c) Commits execution of the plan, including any incorporated contingency plans, by the owner or operator of the facility, and verifies authority for the plan holder to make appropriate expenditures in order to execute plan provisions; and

(d) Includes the name, location, and address of the facility, type of facility, starting date of operations, types of oil(s) handled, and oil volume capacity.

(2) Each plan shall include a log sheet to record amendments to the plan. The log sheet shall be placed at the front of the plan. The log sheet shall provide for a record of the section amended, the date that the old section was replaced with the amended section, verification that the department was notified of the amendment pursuant to WAC 173-181-080(3), and the initials of the individual making the change. A description of the amendment and its purpose shall also be included in the log sheet, or filed in the form of an amendment letter immediately after the log sheet.

(3) Each plan shall include a detailed table of contents based on chapter, section, and appendix numbers and titles, as well as tables and figures.

(4) Each plan shall describe the purpose and scope of that plan, including:

(a) The geographic area covered by the plan;

(b) The onshore facility or offshore facility operations covered by the plan; and

(c) The size of the worst case spill from the facility.

(5) Each plan shall describe the procedures and time periods corresponding to updates of the plan and distribution of the plan and updates to affected and interested parties.

(6) Each plan shall present a strategy to ensure use of the plan for spill response and cleanup operations pursuant to requirements in WAC 173-181-075.

(7) Each plan shall describe the organization of the spill response system, including all task assignments addressed by requirements of this section. This description shall identify the role of an incident commander or primary spill response manager, who shall possess the lead authority in spill response and cleanup decisions. The plan shall describe how a smooth transfer of the incident commander or primary spill response manager position between individuals will be accomplished. An organizational diagram depicting the chain of command shall also be included.

(8)(a) For each primary response contractor which a plan holder may or does rely on to perform or supplement its response operations within the geographic area covered by the plan, the plan shall state that contractor's name, address, phone number, or other means of contact at any time of the

day, and response capability (e.g., land spills only). For each primary response contractor, the plan shall include a letter of intent signed by the primary response contractor which indicates the contractor's willingness to respond. Copies of written contracts or agreements with primary response contractors shall be available for inspection, if requested by the department.

(b) If a plan holder is a member of an oil spill response cooperative and relies on that cooperative to perform or supplement its response operations within the geographic area covered by the plan, the plan shall state the cooperative's name, address, phone number, and response capability. The plan shall also include proof of cooperative membership.

(c) Plans which rely on primary response contractors shall rely only on primary response contractors approved by the department under WAC 173-181-090.

(9) Each plan shall briefly describe its relation to all applicable local, state, regional, and federal government response plans. Plans shall address how the plan holder's response organization will be coordinated with an incident command system utilized by state and federal authorities.

(10) Each plan shall list procedures which will be used to detect and document the presence and size of a spill, including methods which are effective during low visibility conditions. In addition, the plan shall describe the use, if any, of mechanical or electronic monitoring or alarm systems (including threshold sensitivities) used to detect oil discharges into adjacent land or water from tanks, pipes, manifolds, and other transfer or storage equipment.

(11) Each plan shall describe procedures which will be taken to immediately notify appropriate parties that a spill has occurred.

(a) The plan holder shall maintain a notification call out list which shall be available if requested by the department for inspection, and which:

(i) Provides a contact at any time of the day for all spill response personnel identified under subsection (7) of this section, including the contact's name, position title, phone number or other means of contact for any time of the day, and an alternate contact in the event the individual is unavailable;

(ii) Lists the name and phone number of all government agencies which must be notified in the event of an oil spill pursuant to requirements under RCW 90.48.360 as recodified by section 1115, chapter 200, Laws of 1991, and other state and federal requirements; and

(iii) Establishes a clear order of priority for immediate notification;

(b) The plan shall identify a central reporting office or individual who is responsible for implementing the call out process; and

(c) The plan shall utilize a system of categorizing incident type and severity. Plan holders are encouraged to utilize the system established by the department in the Washington statewide master oil and hazardous substance spill contingency plan as developed pursuant to RCW 90.48.378 as recodified by section 1115, chapter 200, Laws of 1991.

(12) Each plan shall describe the personnel (including contract personnel) available to respond to an oil spill, including:

(a) A job description for each type of spill response position needed as indicated in the spill response organization scheme addressed in subsection (7) of this section;

(b) The number of personnel available to perform each type of spill response position;

(c) Arrangements for prepositioning personnel at strategic locations which will meet criteria pursuant to WAC 173-181-065 (3)(d);

(d) The type and frequency of spill response operations and safety training that each individual in a spill response position receives to attain the level of qualification demanded by their job description; and

(e) The procedures, if any, to train and use volunteers willing to assist in spill response operations. Volunteer procedures for wildlife rescue shall comply with rules adopted by the Washington department of wildlife.

(13)(a) Each plan shall list the type, quantity, age, location, maintenance schedule, and availability of equipment used during spill response, including equipment used for oil containment, recovery, storage, and removal, shoreline and adjacent lands cleanup, wildlife rescue and rehabilitation, and communication.

(b) For equipment listed under (a) of this subsection that is not owned by or available exclusively to the plan holder, the plan shall also estimate the extent to which other contingency plans rely on that same equipment.

(c) For oil containment and recovery equipment, the plan also shall include equipment make and model, and the manufacturer's nameplate capacity of the response equipment (in gallons per minute), and applicable design limits (e.g., maximum wave height capability; inland waters vs. open ocean).

(d) Based on information described in (c) of this subsection, the plan shall state the maximum amount of oil which could be recovered per twenty-four-hour period.

(e) For purposes of determining plan adequacy under WAC 173-181-065, and to assess realistic capabilities based on potential limitations by weather, sea state, and other variables, the data presented in (c) and (d) of this subsection will be multiplied by an average efficiency factor of twenty percent. The department will apply a higher efficiency factor for equipment listed in a plan if that plan holder provides adequate evidence that the higher efficiency factor is warranted for particular equipment. The department may assign a lower efficiency factor to particular equipment listed in a plan if it determines that the performance of that equipment warrants such a reduction.

(f) The plan shall provide arrangements for prepositioning of oil spill response equipment at strategic locations which will meet criteria pursuant to WAC 173-181-065 (3)(d).

(14) Each plan shall describe the communication system used for spill notification and response operations, including:

(a) Communication procedures;

(b) The communication function (e.g., ground-to-air) assigned to each channel or frequency used; and

(c) The maximum geographic range for each channel or frequency used.

(15) Each plan shall describe the process to establish sites needed for spill response operations, including location or location criteria for:

(a) A central command post;

(b) A central communications post if located away from the command post; and

(c) Equipment and personnel staging areas.

(16)(a) Each plan shall present a flowchart or decision tree describing the procession of each major stage of spill response operations from spill discovery to completion of cleanup. The flowchart or decision tree shall describe the general order and priority in which key spill response activities are performed.

(b) Each plan shall describe all key spill response operations in checklist form, to be used by spill response managers in the event of an oil spill.

(17)(a) Each plan shall list the local, state, and other government authorities responsible for the emergency procedures peripheral to spill containment and cleanup, including:

(i) Procedures to control fires and explosions, and to rescue people or property threatened by fire or explosion;

(ii) Procedures to control ground and air traffic which may interfere with spill response operations; and

(iii) Procedures to manage access to the spill response site.

(b) Each plan shall describe the plan holder's role in these emergency operation procedures prior to the arrival of proper authorities.

(18) Each plan shall describe equipment and procedures to be used by the facility personnel to minimize the magnitude of the spill and minimize structural damage which may increase the quantity of oil spilled. Damage control procedures shall include methods to slow or stop pipeline, storage tank, and other leaks, and methods to achieve immediate emergency shutdown.

(19) Each plan shall describe, in detail, methods to contain spilled oil and remove it from the environment. Methods shall describe deployment of equipment and personnel, using diagrams or other visual aids when possible. Response methods covered must include:

(a) Surveillance methods used to detect and track the extent and movement of the spill;

(b) Methods to contain and remove oil in offshore waters;

(c) Methods to contain and remove oil in near-shore waters, including shoreline protection procedures and oil diversion/pooling procedures; and

(d) Methods to contain and remove oil, including surface oil, subsurface oil, and oiled debris and vegetation, from a variety of shoreline, adjacent land, and beach types.

(20) Each plan shall briefly describe initial equipment and personnel deployment activities which will accomplish the response standard listed in WAC 173-181-065 (3)(d), and provide an estimate of the actual execution time.

(21) If the plan holder will use dispersants, coagulants, bioremediants, or other chemical agents for response operations, conditions permitting, the plan shall describe:

(a) Type and toxicity of chemicals;

(b) Under what conditions they will be applied in conformance with all applicable local, state, and federal requirements, including the statewide master oil and hazardous substance spill contingency plan;

(c) Methods of deployment; and

(d) Location and accessibility of supplies and deployment equipment.

(22) If the plan holder will use in-situ burning for response operations, conditions permitting, the plan shall describe:

(a) Type of burning operations;

(b) Under what conditions burning will be applied in conformance with all applicable local, state, and federal requirements, including the statewide master oil and hazardous substance spill contingency plan;

(c) Methods of application; and

(d) Location and accessibility of supplies and deployment equipment.

(23) Each plan shall describe how environmental protection will be achieved, including:

(a) Protection of sensitive shoreline and island habitat by diverting or blocking oil movement;

(b) Priorities for sensitive area protection in the geographic area covered by the plan as designated by the department in environmentally sensitive area maps referenced in the statewide master oil and hazardous substance spill contingency plan;

(c) Rescue and rehabilitation of birds, marine mammals, and other wildlife contaminated or otherwise affected by the oil spill in compliance with rules adopted by the Washington department of wildlife; and

(d) Measures taken to reduce damages to the environment caused by shoreline and adjacent land cleanup operations, such as impacts to sensitive shoreline habitat by heavy machinery.

(24)(a) Each plan shall describe site criteria and methods used for interim storage of oil recovered and oily wastes generated during response and cleanup operations, including sites available within the facility. Interim storage methods and sites shall be designed to prevent contamination by recovered oil and oily wastes.

(b) If use of interim storage sites will require approval by local, state, or federal officials, the plan shall include information which could expedite the approval process, including a list of appropriate contacts and a brief description of procedures to follow for each applicable approval process.

(c) Each plan shall describe methods and sites used for permanent disposal of oil recovered and oily wastes generated during response and cleanup operations.

(d) Interim storage and permanent disposal methods and sites shall be sufficient to keep up with oil recovery operations and handle the entire volume of oil recovered and oily wastes generated.

(e) Interim storage and permanent disposal methods and sites shall comply with all applicable local, state, and federal requirements.

(25) Each plan shall describe procedures to protect the health and safety of oil spill response workers, volunteers, and other individuals on-site. Provisions for training, decontamination facilities, safety gear, and a safety officer position shall be addressed.

(26) Each plan shall explain post-spill review procedures, including methods to review both the effectiveness of the plan and the need for plan amendments. Post-spill procedures shall provide for a debrief of the department.

(27)(a) Each plan shall describe the schedule and type of drills and other exercises which will be practiced to ensure readiness of the plan elements, including drills which satisfy WAC 173-181-070(3).

(b) Tests of internal call out procedures shall be performed at least once every ninety calendar days and documented by the plan holder. Such tests are only required to involve notification, not actual deployment.

(28) Unless the plan holder has received approval for a prevention plan submitted pursuant to chapter 200, Laws of 1991, each onshore facility and offshore facility plan shall describe measures taken to reduce the likelihood that a spill will occur which exceed or are not covered by existing state and federal requirements, including:

(a) Type and frequency of personnel training on methods to minimize operational risks;

(b) Methods to ensure equipment integrity, including inspection and maintenance schedules;

(c) Methods to reduce spills during transfer operations, including overfill prevention; and

(d) Secondary containment for tanks, pipes, manifolds, or other structures used for storage or movement of oil other than liquefied petroleum gases.

(29) Each facility plan shall list the spill risk variables within the geographic area covered by the plan, including:

(a) Types, physical properties, and amounts of oil handled;

(b) A written description and map indicating site topography, storm water and other drainage systems, mooring areas, pipelines, tanks, and other oil processing, storage, and transfer sites and operations; and

(c) A written description of sites or operations with a history of or high potential for oil spills.

(30) Each plan shall list the environmental variables within the geographic area covered by the plan, including:

(a) Natural resources, including coastal and aquatic habitat types and sensitivity by season, breeding sites, presence of state or federally listed endangered or threatened species, and presence of commercial and recreational species (environmental variable information may be obtained directly from environmentally sensitive area maps referenced in the statewide master oil and hazardous substance spill contingency plan);

(b) Public resources, including public beaches, water intakes, drinking water supplies, and marinas;

(c) Seasonal hydrographic and climatic conditions; and

(d) Physical geographic features, including relative isolation of coastal regions, beach types, and other geological characteristics.

(31) Each plan shall list the logistical resources within the geographic area covered by the plan, including:

(a) Facilities for fire services, medical services, and accommodations; and

(b) Shoreline access areas, including boat launches.

(32)(a) Each plan shall describe detailed, plausible, step-by-step response scenarios for:

(i) A small oil spill less than five hundred gallons; and

(ii) A worst case spill as described in the plan pursuant to subsection (4)(c) of this section.

(b) Each scenario description shall include:

(i) The circumstances surrounding the spill, including size, type, location, climatic and hydrographic conditions, time, and cause;

(ii) An estimate of oil movement during the first seventy-two hours, including likely shoreline contact points; and

(iii) Estimates of response time and percent recovery for each major phase of operations.

(c) If a plan applies to multiple facilities, each scenario description shall discuss implementation of the plan in the event of simultaneous separate spills.

(33) Each plan shall include a glossary of technical terms and abbreviations used in the plan.

[Statutory Authority: RCW 90.48.035. 91-22-087 (Order 91-12), § 173-181-050, filed 11/5/91, effective 12/6/91.]

WAC 173-181-060 Plan submittal. (1)(a) Plans for onshore facilities capable of storing one million gallons or more of oil, and offshore facilities shall be submitted to the department within six months after adoption of this chapter.

(b) All other onshore facilities shall submit plans to the department by January 1, 1993.

(2) Any onshore or offshore facility that first begins operating after the above deadlines shall submit a plan to the department at least sixty-five calendar days prior to the beginning of operations.

(3) Three copies of the plan and appendices shall be delivered to:

Spill Management Section,
Contingency Plan Review
Washington Department of Ecology
PV-11
P.O. Box 47600
Olympia, WA 98504-7600

(4) Onshore and offshore facility plans may be submitted by:

(a) The facility owner or operator; or

(b) A primary response contractor approved by the department pursuant to WAC 173-181-090, in conformance with requirements under WAC 173-181-050(1).

(5) A single plan may be submitted for more than one facility, provided that the plan contents meet the requirements in this chapter for each facility listed.

(6) The plan submitter may request that proprietary information be kept confidential under RCW 43.21B.160.

[Statutory Authority: RCW 90.48.035. 91-22-087 (Order 91-12), § 173-181-060, filed 11/5/91, effective 12/6/91.]

WAC 173-181-065 Plan review. (1) The department shall endeavor to review each plan in sixty-five calendar days. Upon receipt of a plan, the department shall evaluate promptly whether the plan is incomplete. If the department determines that a plan is incomplete, the submitter shall be notified of deficiencies. The review period shall not begin until the department receives a complete plan.

(2) The department shall regularly notify interested parties of any contingency plans which are under review by the department, and make plans available for review to all department programs, other state, local, and federal agencies, and the public. The department shall accept comments from

these interested parties on the plan during the first thirty calendar days of review by the department.

(3) A plan shall be approved if, in addition to meeting criteria in WAC 173-181-045 and 173-181-050, it demonstrates that when implemented, it can:

(a) To the maximum extent practicable, provide for prompt and proper response to and cleanup of a variety of spills, including small chronic spills, and worst case spills;

(b) To the maximum extent practicable, provide for prompt and proper protection of the environment from oil spills;

(c) Provide for immediate notification and mobilization of resources upon discovery of a spill;

(d) Provide for initial deployment of response equipment and personnel at the site of the spill within one hour of the plan holder's awareness that a spill has occurred given suitable safety conditions; and

(e) Use as primary response contractors, only those response contractors approved by the department pursuant to WAC 173-181-090.

(4) When reviewing plans, the department shall, in addition to the above criteria, consider the following:

(a) The volume and type of oil(s) addressed by the plan;

(b) The history and circumstances of prior spills by similar types of facilities, including spill reports by department on-scene coordinators;

(c) The presence of operating hazards;

(d) The sensitivity and value of natural resources within the geographic area covered by the plan;

(e) Any pertinent local, state, federal agency, or public comments received on the plan;

(f) The extent to which reasonable, cost-effective spill prevention measures have been incorporated into the plan.

(5) The department may approve a plan without a full review as per provisions of this section if that plan has been approved by a federal agency or other state which the department has deemed to possess approval criteria which equal or exceed those of the department.

(6) The department shall prepare a manual to aid department staff responsible for plan review. This manual shall be made available to provide guidance for plan preparers. While the manual will be used as a tool to conduct review of a plan, the department will not be bound by the contents of the manual.

(7) The department shall endeavor to notify the facility owner or operator within five working days after the review is completed whether the plan has been approved.

(a) If the plan receives approval, the facility owner or operator shall receive a certificate of approval describing the terms of approval, including expiration dates.

(b)(i) The department may approve a plan conditionally by requiring a facility owner or operator to operate with specific precautionary measures until unacceptable components of the plan are resubmitted and approved.

(ii) Precautionary measures may include, but are not limited to, reducing oil transfer rates, increasing personnel levels, or restricting operations to daylight hours. Precautionary measures may also include additional requirements to ensure availability of response equipment.

(iii) A plan holder shall have thirty calendar days after the department gives notification of conditional status to submit and implement required changes to the department, with the option for an extension at the department's discretion. Plan holders who fail to meet conditional requirements or provide required changes in the time allowed shall lose conditional approval status.

(c) If plan approval is denied, the facility owner or operator shall receive an explanation of the factors for disapproval and a list of actions to be taken to gain approval. The facility shall not continue oil storage, transfer, production, or other operations until a plan for that facility has been approved.

(d) A plan holder may appeal the department's decision under WAC 173-04-010.

(e) If a plan holder demonstrates an inability to comply with an approved contingency plan or otherwise fails to comply with requirements of this chapter, the department may, at its discretion:

(i) Place conditions on approval pursuant to (b) of this subsection; or

(ii) Revoke its approval pursuant to (c) of this subsection.

(f) Approval of a plan by the department does not constitute an express assurance regarding the adequacy of the plan nor constitute a defense to liability imposed under state law.

(8) The department shall work with the office of marine safety to ensure that no duplication of regulatory responsibilities occurs in the review of contingency plans from marine facilities.

[Statutory Authority: RCW 90.48.035. 91-22-087 (Order 91-12), § 173-181-065, filed 11/5/91, effective 12/6/91.]

WAC 173-181-070 Drills and inspections. (1) For the purpose of determining plan adequacy, the department may require a plan holder to participate in one unannounced full deployment drill annually. The department shall choose plan holders for such drills through a random process.

(2) The department may require a plan holder to participate in one announced, limited deployment drill annually. The department shall choose plan holders for such drills through a random process.

(3) Requirements under subsections (1) and (2) of this section may be met:

(a) By drills led by other state, local, or federal authorities if the department finds that the criteria for drill execution and review equal or exceed those of the department;

(b) By drills initiated by the plan holder, if the department is involved in participation, review, and evaluation of the drill, and if the department finds that the drill adequately tests the plan; and

(c) By responses to actual spill events, if the department is involved in participation, review, and evaluation of the spill response, and if the department finds that the spill event adequately tests the plan.

(4) The department may excuse a primary response contractor from full deployment participation in more than one drill, if in the past twelve months, the primary response contractor has performed to the department's satisfaction in a full deployment drill or an exercise listed in subsection (3) of this section.

(5) The department shall review the degree to which the specifications of the plan are implemented during the drill. The department shall endeavor to notify the facility owner or operator of the review results within thirty calendar days following the drill. If the department finds deficiencies in the plan, the department shall report those deficiencies to the plan holder and require the plan holder to make specific amendments to the plan pursuant to requirements in WAC 173-181-080.

(6) The department shall publish an annual report on plan drills, including a summary of response times, actual equipment and personnel use, recommendations for plan requirement changes, and industry response to those recommendations.

(7) The department may require the facility owner or operator to participate in additional drills beyond those required in subsections (1) and (2) of this section if the department is not satisfied with the adequacy of the plan during exercises or spill response events.

(8) The department may verify compliance with this chapter by unannounced inspections in accordance with RCW 90.48.090.

[Statutory Authority: RCW 90.48.035. 91-22-087 (Order 91-12), § 173-181-070, filed 11/5/91, effective 12/6/91.]

WAC 173-181-075 Plan maintenance and use. (1) At least one copy of the plan shall be kept in a central location accessible at any time by the incident commander or spill response manager named in accordance with WAC 173-181-050(7). Each facility covered by the plan shall possess a copy of the plan and keep it in a conspicuous and accessible location.

(2) A field document prepared under WAC 173-181-045(5) shall be available to all appropriate personnel.

(3) A facility owner or operator shall implement the plan in the event of a spill. The facility owner or operator must receive approval from the department before it conducts any major aspect of the spill response contrary to the plan unless:

(a) Such actions are necessary to protect human health and safety;

(b) Such actions must be performed immediately in response to unforeseen conditions to avoid additional environmental damage; or

(c) The plan holder has been directed to perform such actions by the department or the United States Coast Guard.

[Statutory Authority: RCW 90.48.035. 91-22-087 (Order 91-12), § 173-181-075, filed 11/5/91, effective 12/6/91.]

WAC 173-181-080 Plan update timeline. (1) The department shall be notified in writing as soon as possible and within twenty-four hours of any significant change which could affect implementation of the plan, including a substantial decrease in available spill response equipment or personnel. The plan holder shall also provide a schedule for the prompt return of the plan to full operational status. A facsimile will be considered written notice for the purposes of this subsection. Changes which are not considered significant include minor variations in equipment or personnel characteristics, call out lists, or operating procedures. Failure to notify the department of significant changes shall be considered noncompliance with this chapter and subject to provisions of WAC 173-181-065 (7)(e).

(2) If the department finds that, as a result of the change, the plan no longer meets approval criteria pursuant to WAC 173-181-065, the department may, in its discretion, place conditions on approval or revoke approval in accordance to WAC 173-181-065 (7)(e). Plan holders are encouraged to maintain back-up response resources in order to ensure that their plans can always be fully implemented.

(3) Within thirty calendar days of an approved change, the facility owner or operator shall distribute the amended page(s) of the plan to the department and other plan holders.

(4) Plans shall be reviewed by the department every five years pursuant to WAC 173-181-065. Plans shall be submitted for reapproval unless the plan holder submits a letter requesting that the department review the plan already in the department's possession. The plan holder shall submit the plan or such a letter at least sixty-five calendar days in advance of the plan expiration date.

(5) The department may review a plan following any spill for which the plan holder is responsible.

[Statutory Authority: RCW 90.48.035. 91-22-087 (Order 91-12), § 173-181-080, filed 11/5/91, effective 12/6/91.]

WAC 173-181-085 Noncompliance with plan requirements. (1) Any violation of this chapter may be subject to the enforcement and penalty sanctions of RCW 90.48.376 as recodified by section 1115, chapter 200, Laws of 1991.

(2) The department may notify the secretary of state to suspend the business license of any onshore or offshore facility or other person that is in violation of this section. The department may assess a civil penalty of up to one hundred thousand dollars against any person who is in violation of this section. Each day that a facility or person is in violation of this section shall be considered a separate violation.

[Statutory Authority: RCW 90.48.035. 91-22-087 (Order 91-12), § 173-181-085, filed 11/5/91, effective 12/6/91.]

WAC 173-181-090 Contractor standards. (1) Primary response contractors listed in an offshore or onshore facility contingency plan must be approved by the department. Response contractors which are listed in a contingency plan only as subcontractors to a primary response contractor do not have to be approved by the department.

(2) Primary response contractors shall be approved by the department subject to the following conditions:

(a) Equipment, equipment maintenance, and equipment and personnel deployment readiness must be verifiable by departmental inspection. Any resources not on site at the time of an inspection must be accounted for by company records. Approval of personnel readiness shall require capability of a one hour call out time in which personnel must be able to begin mobilization of response efforts. Equipment readiness shall include being available and able to be deployed to a spill site without delay, not counting normal maintenance and repairs;

(b) Response personnel shall comply with all appropriate safety and training requirements listed in WAC 296-62-300. Training records may be audited for verification; and

(c) Determination of an acceptable safety history by review of pertinent records on a case-by-case, best-professional-judgment basis. Lack of a safety history will not be grounds for denying approval.

(3) The department shall work with the office of marine safety to ensure that no duplication of regulatory responsibilities occurs in the review of primary response contractors.

[Statutory Authority: RCW 90.48.035. 91-22-087 (Order 91-12), § 173-181-090, filed 11/5/91, effective 12/6/91.]

WAC 173-181-092 Contractor approval information required. To apply for approval, contractors shall submit the following items to the department:

(1) Contractor's name, UBI number, address, and phone number;

(2) Response capability, including geographic area of response coverage, with any exclusions;

(3) The types of oil and media (e.g., marine, fresh water, or land) to which the contractor is willing and able to respond;

(4) An organizational diagram depicting chain of command;

(5) A call out list as described in WAC 173-181-050 (11)(a)(i);

(6) A list of all response equipment and personnel pursuant to WAC 173-181-050 (12)(a), (b), and (d) and (13)(a) and (c); and

(7) A list of all OSHA/WISHA citations and reports, lost-time accidents, and accident claims related to oil spill response operations for the last five years. Any applicant with less than five years under their current business name or organization shall provide a listing of any oil spill response contract businesses owned or operated by the principals in the new company within the last five years, including a brief description of the companies and their safety history information listed above.

[Statutory Authority: RCW 90.48.035. 91-22-087 (Order 91-12), § 173-181-092, filed 11/5/91, effective 12/6/91.]

WAC 173-181-094 Submittal of contractor approval applications. (1) Three copies of the contractor's approval application shall be delivered to:

Spill Management Section,
Response Contractor Approval
Washington Department of Ecology
PV-11
P.O. Box 47600
Olympia, WA 98504-7600

(2) Applications may be submitted at any time after adoption of this chapter. If submitted with a contingency plan, the information required pursuant to WAC 173-181-092 shall be presented separately.

[Statutory Authority: RCW 90.48.035. 91-22-087 (Order 91-12), § 173-181-094, filed 11/5/91, effective 12/6/91.]

WAC 173-181-096 Contractor application review. (1) The department shall endeavor to review each application for primary response contractor approval in forty-five calendar days. Upon receipt of an application, the department shall evaluate promptly whether the application is incomplete. If the department determines that an application is incomplete, the submitter shall be notified of deficiencies. The forty-five day review period shall begin when the application is complete.

(2) An application shall be approved if it meets the conditions specified in WAC 173-181-090.

(3) The department shall endeavor to notify the applicant that the application has been approved/not approved within five working days after the review is completed.

(a) If the application is approved, the contractor shall receive a certificate of approval describing the terms of approval, including expiration dates.

(b) If the application is not approved, the contractor shall receive an explanation of the factors for disapproval and a list of actions to be taken to gain approval. The contractor may not act as a primary response contractor for a facility contingency plan until approved by the department.

(c) A contractor may appeal the department's decision under WAC 173-04-010.

(d) Approval of a response contractor by the department does not constitute an express assurance regarding the adequacy of the contractor nor constitute a defense to liability imposed under state law.

(4) Response contractor approvals shall be reviewed by the department every two years pursuant to WAC 173-181-094. Reapproval applications shall be submitted sixty calendar days in advance of the approval expiration date.

(5) An approved contractor shall notify the department in writing as soon as possible and within twenty-four hours of any significant change in the information reported in the approval application, such as a substantial change in equipment ownership. A facsimile received by the department will be considered written notice for the purposes of this subsection. Failure to notify the department may result in loss of approval status. Upon notification, the department may review the approval of the primary response contractor pursuant to this section. If the department determines that approval conditions are no longer met, approval may be withdrawn.

[Statutory Authority: RCW 90.48.035. 91-22-087 (Order 91-12), § 173-181-096, filed 11/5/91, effective 12/6/91.]

WAC 173-181-098 Severability. If any provision of this chapter is held invalid, the remainder of the rule is not affected.

[Statutory Authority: RCW 90.48.035. 91-22-087 (Order 91-12), § 173-181-098, filed 11/5/91, effective 12/6/91.]

Chapter 173-183 WAC

PREASSESSMENT SCREENING AND OIL SPILL COMPENSATION SCHEDULE REGULATIONS

WAC

173-183-010 Purpose.
173-183-020 Authority.
173-183-030 Applicability.
173-183-100 Definitions.

THE RDA COMMITTEE AND PREASSESSMENT SCREENING

173-183-200 Preassessment screening process.

(c) Determination of an acceptable safety history by review of pertinent records on a case-by-case, best-professional-judgment basis. Lack of a safety history will not be grounds for denying approval.

(3) The department shall work with the office of marine safety to ensure that no duplication of regulatory responsibilities occurs in the review of primary response contractors.

[Statutory Authority: RCW 90.48.035. 91-22-087 (Order 91-12), § 173-181-090, filed 11/5/91, effective 12/6/91.]

WAC 173-181-092 Contractor approval information required. To apply for approval, contractors shall submit the following items to the department:

(1) Contractor's name, UBI number, address, and phone number;

(2) Response capability, including geographic area of response coverage, with any exclusions;

(3) The types of oil and media (e.g., marine, fresh water, or land) to which the contractor is willing and able to respond;

(4) An organizational diagram depicting chain of command;

(5) A call out list as described in WAC 173-181-050 (11)(a)(i);

(6) A list of all response equipment and personnel pursuant to WAC 173-181-050 (12)(a), (b), and (d) and (13)(a) and (c); and

(7) A list of all OSHA/WISHA citations and reports, lost-time accidents, and accident claims related to oil spill response operations for the last five years. Any applicant with less than five years under their current business name or organization shall provide a listing of any oil spill response contract businesses owned or operated by the principals in the new company within the last five years, including a brief description of the companies and their safety history information listed above.

[Statutory Authority: RCW 90.48.035. 91-22-087 (Order 91-12), § 173-181-092, filed 11/5/91, effective 12/6/91.]

WAC 173-181-094 Submittal of contractor approval applications. (1) Three copies of the contractor's approval application shall be delivered to:

Spill Management Section,
Response Contractor Approval
Washington Department of Ecology
PV-11
P.O. Box 47600
Olympia, WA 98504-7600

(2) Applications may be submitted at any time after adoption of this chapter. If submitted with a contingency plan, the information required pursuant to WAC 173-181-092 shall be presented separately.

[Statutory Authority: RCW 90.48.035. 91-22-087 (Order 91-12), § 173-181-094, filed 11/5/91, effective 12/6/91.]

WAC 173-181-096 Contractor application review. (1) The department shall endeavor to review each application for primary response contractor approval in forty-five calendar days. Upon receipt of an application, the department shall evaluate promptly whether the application is incomplete. If the department determines that an application is incomplete, the submitter shall be notified of deficiencies. The forty-five day review period shall begin when the application is complete.

(2) An application shall be approved if it meets the conditions specified in WAC 173-181-090.

(3) The department shall endeavor to notify the applicant that the application has been approved/not approved within five working days after the review is completed.

(a) If the application is approved, the contractor shall receive a certificate of approval describing the terms of approval, including expiration dates.

(b) If the application is not approved, the contractor shall receive an explanation of the factors for disapproval and a list of actions to be taken to gain approval. The contractor may not act as a primary response contractor for a facility contingency plan until approved by the department.

(c) A contractor may appeal the department's decision under WAC 173-04-010.

(d) Approval of a response contractor by the department does not constitute an express assurance regarding the adequacy of the contractor nor constitute a defense to liability imposed under state law.

(4) Response contractor approvals shall be reviewed by the department every two years pursuant to WAC 173-181-094. Reapproval applications shall be submitted sixty calendar days in advance of the approval expiration date.

(5) An approved contractor shall notify the department in writing as soon as possible and within twenty-four hours of any significant change in the information reported in the approval application, such as a substantial change in equipment ownership. A facsimile received by the department will be considered written notice for the purposes of this subsection. Failure to notify the department may result in loss of approval status. Upon notification, the department may review the approval of the primary response contractor pursuant to this section. If the department determines that approval conditions are no longer met, approval may be withdrawn.

[Statutory Authority: RCW 90.48.035. 91-22-087 (Order 91-12), § 173-181-096, filed 11/5/91, effective 12/6/91.]

WAC 173-181-098 Severability. If any provision of this chapter is held invalid, the remainder of the rule is not affected.

[Statutory Authority: RCW 90.48.035. 91-22-087 (Order 91-12), § 173-181-098, filed 11/5/91, effective 12/6/91.]

Chapter 173-183 WAC

PREASSESSMENT SCREENING AND OIL SPILL COMPENSATION SCHEDULE REGULATIONS

WAC

173-183-010 Purpose.
173-183-020 Authority.
173-183-030 Applicability.
173-183-100 Definitions.

THE RDA COMMITTEE AND PREASSESSMENT SCREENING

173-183-200 Preassessment screening process.

173-183-210 Incident discovery and reporting.
173-183-220 Initial site reconnaissance and notification of the RDA committee.
173-183-230 RDA committee.
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WAC 173-183-010 Purpose. The purpose of this rule is to establish procedures for convening a resource damage assessment (RDA) committee, preassessment screening of resource damages resulting from oil spills to determine which damage assessment methods to use, and determining damages in cases where the compensation schedule is selected as the damage assessment methodology to apply. The RDA committee, utilizing the preassessment screening process, shall determine whether a detailed resource damage assessment studies should be conducted or whether the compensation schedule authorized under RCW 90.48.366 and 90.48.367 will be used to assess damages for each oil spill into state waters.

[Statutory Authority: Chapter 90.48 RCW. 92-10-005 (Order 91-13), § 173-183-010, filed 4/23/92, effective 5/24/92.]

WAC 173-183-020 Authority. This regulation implements RCW 90.48.366, 90.48.367, and 90.48.368 of the Water Pollution Control Act, as amended in 1987, 1989, and 1991.

[Statutory Authority: Chapter 90.48 RCW. 92-10-005 (Order 91-13), § 173-183-020, filed 4/23/92, effective 5/24/92.]

WAC 173-183-030 Applicability. This chapter shall apply to all oil spills into the waters of the state. Under this chapter, the department may require or take any and all actions necessary to investigate and assess damages from those spills.

[Statutory Authority: Chapter 90.48 RCW. 92-10-005 (Order 91-13), § 173-183-030, filed 4/23/92, effective 5/24/92.]

WAC 173-183-100 Definitions. (1) "Columbia River estuary environment" means the habitat and all other public resources associated with or dependent on the estuarine waters of the Columbia River.

(2) "Compensation schedule" means the set of procedures enumerated in WAC 173-183-300 through 173-183-870 to determine the public resource damages resulting from an oil spill for cases in which damages are not quantifiable at a reasonable cost.

(3) "Damages" means the amount of monetary compensation necessary to:

(a) Restore any injured public resource to its condition before sustaining injury as a result of an oil discharge in violation of chapter 90.48 or 90.56 RCW, to the extent technically feasible, including any loss in value incurred during the period between injury and restoration in cases where damages are quantifiable at a reasonable cost; or

(b) Adequately compensate for the loss or diminution in value as determined through application of the compensation schedule provided in WAC 173-183-300 through 173-183-870 in cases where damages are not quantifiable at a reasonable cost.

(4) "Department" means the department of ecology.

(5) "Director" means the director of the department of ecology, or his or her designee.

(6) "Discharge" means any spilling, leaking, pumping, pouring, emitting, emptying, or dumping.

(7) "Estuarine environment" means the habitat and all other public resources associated with or dependent on estuarine waters of the state.

(8) "Estuarine waters" or "estuarine waters of the state" means the waters within state jurisdiction that are semi-enclosed by land but have open, partly obstructed, or sporadic access to the ocean, and in which seawater is at least occasionally diluted by freshwater runoff from land. Estua-

rine waters of the state include adjacent tidal flats and beaches up to the limit of tidal inundation or wave splash. For purposes of this chapter, estuarine waters of the state include those designated on the map attached as Appendix 1 to this chapter, and the portion of the Columbia River estuary within state jurisdiction upstream to river mile 46 or the line drawn perpendicularly across the river which touches the upstream end of Puget Island.

(9) "Freshwater stream, river, and lake environment" means the habitat and all other public resources associated with or dependent on the streams, rivers, and lakes under state jurisdiction.

(10) "Freshwater wetland" or "freshwater wetlands" means lands transitional between terrestrial and freshwater aquatic systems where the water table is usually at or near the surface or the land is covered by shallow water, and lands having one or more of the following attributes at least periodically: The land supports predominantly hydrophytes; the substrate is predominately undrained hydric soil; and the substrate is nonsoil and saturated with water or covered by shallow water at some time during the growing season each year.

(11) "Freshwater wetland environment" means the habitat and all other public resources associated with or dependent on the freshwater wetlands of the state.

(12) "Freshwaters" or "freshwaters of the state" means all waters of the state except those classified as marine and estuarine waters of the state as defined in this chapter, including lakes, rivers, streams, ponds, other surface waters and wetlands.

(13) "Habitat" means the substrate and complement of associated biota not otherwise included in the vulnerability rankings in the applicable compensation schedule(s) that is part of this chapter.

(14) "Immediate removal" or "immediately removes" means removal of the spilled oil, or portions thereof, from the receiving environment by the potentially liable party within six hours of spill initiation.

(15) "Initial department responder" means the department of ecology spill responder who first arrives at the scene of the spill.

(16) "Injury" or "injuries" means an adverse change, either long- or short-term, to a public resource resulting either directly or indirectly from exposure to a discharge of oil in violation of chapter 90.48 or 90.56 RCW.

(17) "Loss in services" means a temporary or permanent reduction in the ability of the resource to provide its use or benefit to the public or to other resources.

(18) "Loss in value or lost value" of a damaged resource means the amount equal to the sum of consumptive, nonconsumptive, and indirect use values, as well as lost taxation, leasing, and licensing revenues during the period between injury and restoration; indirect use values may include existence, bequest, option, and aesthetic values.

(19) "Marine and estuarine habitats" mean the habitats found in marine and estuarine waters of the state as defined in this chapter.

(20) "Marine birds" means all seabirds, shorebirds, waterfowl, raptors and other avifauna that are dependent on marine and estuarine environments of the state for some portion of their life requirements including feeding, breeding, and habitat.

(21) "Marine environment" means the habitat and all other public resources associated with or dependent on marine waters of the state.

(22) "Marine fish," in context of the compensation schedule, means the species listed in Appendix 2.

(23) "Marine mammals" means the cetaceans, pinnipeds, sea otters, and river otters associated with marine and estuarine waters of the state.

(24) "Marine waters" or "marine waters of the state" means all coastal waters not appreciably diluted by freshwater, including open coastal areas, straits, and euhaline inland waters extending from the seaward limit of state jurisdiction to:

(a) The landward limit of tidal inundation or wave splash; or

(b) The seaward limit of estuarine waters of the state.

(25) "Not quantifiable at a reasonable cost" means any diminution in value of a public resource that cannot be measured with sufficient precision or accuracy by currently available and accepted procedures within a reasonable time frame.

(26) "Oil" or "oils" means naturally occurring liquid hydrocarbons at atmospheric temperature and pressure coming from the earth, including condensate and natural gasoline, and any fractionation thereof, including, but not limited to, crude oil, petroleum gasoline, fuel oil, diesel oil, oil sludge, oil refuse, and oil mixed with wastes other than dredged spoil. Oil does not include any substance listed in Table 302.4 of C.F.R. Part 302 adopted August 14, 1989, under section 101(14) of the Federal Comprehensive Environmental Response, Compensation and Liability Act of 1980, as amended by P.L. 99-499.

(27) "On scene coordinator" (OSC) means the department official who supervises the spill response team and compiles the initial report concerning the facts and circumstances of the spill for the department.

(28) "Person" means any political subdivision, government agency, municipality, industry, public or private corporation, copartnership, association, firm, individual, or any other entity whatsoever.

(29) "Potentially liable party" means the person or persons who may be liable for damages resulting from an oil spill.

(30) "Preassessment screening" means the investigation and determination of the facts and circumstances surrounding an oil spill which are used to determine whether a damage assessment investigation should be conducted, or alternatively, whether the compensation schedule will be used to assess damages.

(31) "Public resources" or "publicly owned resources" means fish, animals, vegetation, land, waters of the state, and other resources belonging to, managed by, held in trust by, appertaining to, or otherwise controlled by the state.

(32) "Reasonable cost" for a damage assessment means a cost that is anticipated to be less than the amount of damages that may have occurred or may occur.

(33) "Receiving environment" means waters of the state exposed to the spill and all public resources associated with or dependent on the exposed waters.

(34) "Resource damage assessment committee" or "RDA committee" means the preassessment screening committee established under RCW 90.48.368 and charged with determining whether to conduct detailed damage assessment studies or to apply the compensation schedule for oil spills into waters of the state, and overseeing reconnaissance and damage assessment activities.

(35) "Restoration or enhancement projects or studies" means an activity that is intended to restore, replenish, restock, or replace public resources, or to further investigate the long-term effect of resource injuries as determined by the RDA committee for the benefit of the public.

(36) "Salmon," in context of the compensation schedule, means the species listed in Appendix 3.

(37) "Scientific advisory board" means the advisory group established by the department to assist in development of the compensation schedule as required by RCW 90.48.366.

(38) "Season" or "seasons" means winter, spring, summer, and/or fall, where winter occurs during the months December through February, spring occurs during the months March through May, summer occurs during the months June through August, and fall occurs during the months September through November.

(39) "Shellfish," in context of the compensation schedule, means the species listed in Appendix 4, but does not include privately grown shellfish on public lands.

(40) "Spill" means an unauthorized discharge of oil into waters of the state.

(41) "State" means state of Washington.

(42) "State trustee agencies" means the state agencies with responsibility for protecting and/or managing public resources.

(43) "Subregion" or "subregions" means the areas into which state marine and estuarine waters have been divided for purposes of the compensation schedule as designated on the maps attached as
Appendix 1.

(44) "Technical feasibility" or "technically feasible" means that given available technology, a restoration or enhancement project can be successfully completed at a cost that is not disproportionate to the value of the public resource before the injury.

(45) "Trust resources" means the public resource(s) under a particular state agency's jurisdiction for protection and/or management.

(46) "Unquantifiable damage" means any diminution in value of a public resource that cannot be measured with sufficient precision or accuracy by currently available and accepted procedures within a reasonable period of time.

(47) "Waters of the state" or "state waters" includes lakes, rivers, ponds, streams, inland waters, underground water, salt waters, estuaries, tidal flats, beaches, and lands adjoining the seacoast of the state, sewers, and all other surface waters and watercourses within the jurisdiction of the state of Washington.

(48) "Wetland" or "wetlands" means lands transitional between terrestrial and aquatic systems where the water table is usually at or near the surface or the land is covered by shallow water, and lands having one or more of the following attributes at least periodically: The land supports predominantly hydrophytes; the substrate is predominantly undrained hydric soil; and the substrate is nonsoil and saturated with water or covered by shallow water at some time during the growing season each year.

[Statutory Authority: Chapter 90.48 RCW. 92-10-005 (Order 91-13), § 173-183-100, filed 4/23/92, effective 5/24/92.]

THE RDA COMMITTEE AND PREASSESSMENT SCREENING

WAC 173-183-200 Preassessment screening process. (1) Findings from the preassessment screening shall be used to determine whether a formal damage assessment investigation should be conducted or whether the compensation schedule will be applied to assess public resource damages associated with spills of oil into state waters.

(2) The preassessment screening process shall occur concurrently with reconnaissance and cleanup activities as defined in WAC 173-183-220(2).

[Statutory Authority: Chapter 90.48 RCW. 92-10-005 (Order 91-13), § 173-183-200, filed 4/23/92, effective 5/24/92.]

WAC 173-183-210 Incident discovery and reporting. The state on-scene coordinator (OSC) or initial department responder, shall provide prompt notice to the committee chair when there is evidence of an oil spill into state waters.

[Statutory Authority: Chapter 90.48 RCW. 92-10-005 (Order 91-13), § 173-183-210, filed 4/23/92, effective 5/24/92.]

WAC 173-183-220 Initial site reconnaissance and notification of the RDA committee. (1) The on-scene coordinator (OSC) or initial department responder to an oil spill shall report the following to the RDA committee chair as soon as practicable:

(a) Initial determination of the type and character of the oil(s) spilled;

(b) Initial determination of location of the spill, general type of habitat(s) impacted, geographic coverage of the spill, and amount of oil(s) spilled; and

(c) Initial determination of potentially liable party identity.

(2) The RDA committee chair shall notify RDA committee members of an oil spill as soon as practicable after receiving a report by the OSC or initial department responder, and provide a preliminary assessment of the potential risks to public resources.

(3) The RDA committee may, upon notification of an oil spill, initiate or authorize the RDA committee chair to initiate any necessary reconnaissance activities to:

(a) Further identify public resources at risk;

(b) Determine the extent to which public resources are, or may be, adversely affected;

(c) Document actual or potential injury to public resources; and

(d) Determine which local, state, and federal agencies and Indian tribes may have interests or jurisdiction over any of the public resources that may be adversely affected by the spill.

[Statutory Authority: Chapter 90.48 RCW. 92-10-005 (Order 91-13), § 173-183-220, filed 4/23/92, effective 5/24/92.]

WAC 173-183-230 RDA committee. (1) The following state agencies shall have membership on the RDA committee: Departments of ecology, fisheries, health, natural resources, wildlife, and the parks and recreation commission.

(2) Agencies with membership on the RDA committee shall nominate a representative and alternate to be appointed to the committee by the director.

(3) The department of ecology shall chair the RDA committee.

(4) The department may select representatives from the following agencies and governments for participation on the RDA committee on a spill-by-spill basis: Departments of emergency management, as well as other federal, state, and local agencies, and tribal and local governments whose presence would enhance reconnaissance or damage assessment activities of spill response.

If a selected representative declines or is unable to participate on the committee, the representative shall provide written notice to the department within twelve hours of being notified so that a replacement member may be appointed. Prompt consideration will be given to other local, state, or federal agency, or tribal government requests for participation on the RDA committee on a spill-by-spill basis.

(5) The RDA committee shall convene as soon as possible, but no later than thirty days after the department receives notification of a spill, or the next regularly scheduled meeting of the committee following a spill.

[Statutory Authority: Chapter 90.48 RCW. 92-10-005 (Order 91-13), § 173-183-230, filed 4/23/92, effective 5/24/92.]

WAC 173-183-240 Preassessment screening. (1) The primary duty of the RDA committee during the preassessment screening is to determine whether detailed damage assessment studies should be conducted under RCW 90.48.367, or alternatively, whether the compensation schedule authorized under RCW 90.48.366 and 90.48.367 will be used to assess damages.

(2) The RDA committee shall consider information collected during reconnaissance and cleanup as well as other relevant background information pertaining to threatened public resources or resource use for the preassessment screening.

(3) The RDA committee shall consider the following factors when determining the type of damage assessment to be conducted:

(a) Whether evidence from reconnaissance investigations suggests that injury has occurred or is likely to occur to publicly owned resources;

(b) The potential loss in services provided by public resources injured or likely to be injured and the expected value of the potential loss;

(c) Whether a restoration project to return lost services is technically feasible;

(d) The accuracy of damage quantification methods that could be used and the anticipated cost-effectiveness of applying each method;

(e) The extent to which likely injury to public resources can be verified with available quantification methods; and

(f) Whether the injury, once quantified, can be translated into monetary values with sufficient precision or accuracy.

(4) The department shall apply the compensation schedule to determine the amount of damages if the RDA committee determines that:

(a) Restoration or enhancement of the injured resources is not technically feasible;

(b) Damages are not quantifiable at a reasonable cost; and

(c) The restoration and enhancement projects or studies proposed by the potentially liable party are insufficient to adequately compensate the people of the state for public resource damages.

(5) The RDA committee is encouraged to work cooperatively with the potentially liable party, to the greatest extent possible, to increase the efficiency of the damage assessment process, and shall provide for the ongoing involvement of the potentially liable party.

[Statutory Authority: Chapter 90.48 RCW. 92-10-005 (Order 91-13), § 173-183-240, filed 4/23/92, effective 5/24/92.]

WAC 173-183-250 Damage assessment studies. (1) If the RDA committee, after considering the factors enumerated in WAC 173-183-240(3), determines that the damages to be investigated are quantifiable at a reasonable cost and that proposed assessment studies are clearly linked to quantification of the damages incurred, then the RDA committee may authorize damage assessment studies.

(2) If the RDA committee authorizes damage assessment studies under RCW 90.48.367(3), the RDA committee chair shall promptly notify the potentially liable party of this decision.

(3) The state trustee agency(ies) responsible for the potentially injured resource and habitat shall conduct the damage assessment studies and pursue all appropriate remedies with the responsible party. The RDA committee shall consider the proposed damage assessment studies and the effects of any proposed remedies in a timely manner, consistent with WAC 173-183-240(3).

(4) As new information becomes available, the committee may reevaluate the scope of damage assessment studies using the factors listed in WAC 173-183-240(3), and may reduce or expand the scope of damage assessment studies as appropriate.

(5) The department may negotiate with a potentially liable party to perform restoration and enhancement projects or studies which may substitute for all or part of the damages determined through the damage assessment studies.

[Statutory Authority: Chapter 90.48 RCW. 92-10-005 (Order 91-13), § 173-183-250, filed 4/23/92, effective 5/24/92.]

WAC 173-183-260 Restoration and enhancement projects proposed by the PLP. (1) The potentially liable party (PLP) may propose restoration or enhancement projects or studies during the preassessment screening phase to substitute for some or all of:

(a) The damages calculated from the compensation schedule authorized under RCW 90.48.366 and 90.48.367; or

(b) The claims from damage assessment studies authorized under RCW 90.48.142 and 90.48.367.

(2) To be considered as part of the preassessment screening decision process specified in WAC 173-183-240, PLP proposals must be submitted to the RDA committee chair within ten days of PLP notification by the RDA committee.

(3) The RDA committee may accept the PLP proposal in lieu of some or all of:

(a) The damages calculated from the compensation schedule authorized under RCW 90.48.366 and 90.48.367; or

(b) The claims from damage assessment studies authorized under RCW 90.48.142 and 90.48.367.

(4) For the RDA committee to find a proposal sufficient to adequately compensate the people of the state for public resource damages, the PLP proposal must at least contain the following elements:

(a) An investigation of all potentially injured public resources to determine if they have been exposed to the spilled oil;

(b) Follow-up investigations on all public resources documented to be exposed to determine if exposure has resulted in injury;

(c) Follow-up investigations on all public resources documented to be injured by the spill to quantify the injury;

(d) Quantification of damages for all public resources where injury has been quantified; and

(e) Restoration/enhancement projects to compensate for public resource injuries to the extent technically feasible; and, for damages that cannot be compensated by technically feasible restoration or enhancement projects, implementation of projects/studies to compensate for these losses. Public resource restoration and enhancement projects and studies shall be prioritized as follows:

(i) On-site, in-kind;

(ii) Off-site, in-kind;

(iii) On-site, out-of-kind; and

(iv) Off-site, out-of-kind.

(5) Prior to the PLP initiating any projects or studies intended to substitute for damages, the PLP's proposal must be approved by the RDA committee. If a PLP proposal is found to be acceptable to the RDA committee, the committee shall notify the PLP of this decision.

(6) If RDA committee finds a PLP project and study plan proposal to be acceptable, the RDA committee shall oversee all projects and studies conducted by the PLP.

(7) Upon completion of the PLP's project and study plan, the RDA committee shall decide the extent to which the PLP's projects and studies substitute for public resource damages as identified in subsection (3) of this section.

[Statutory Authority: Chapter 90.48 RCW. 92-10-005 (Order 91-13), § 173-183-260, filed 4/23/92, effective 5/24/92.]

WAC 173-183-270 Participation. To efficiently implement WAC 173-183-250 the RDA committee may develop public resource damage assessment agreements to facilitate cooperation between state and federal agencies and Indian tribes.

[Statutory Authority: Chapter 90.48 RCW. 92-10-005 (Order 91-13), § 173-183-270, filed 4/23/92, effective 5/24/92.]

OIL SPILL COMPENSATION SCHEDULE GENERAL

WAC 173-183-300 Purpose. The purpose of this section is to establish a compensation schedule that will provide a simple methodology for assessing damages to public resources from oil spills into fresh, marine, and estuarine waters of the state. The intent is to provide an alternate methodology to the extensive and expensive natural resource damage assessments presently being conducted following oil spills. This section provides the procedures for:

(1) Establishing the relative vulnerability of public resources to oil spills by taking into consideration the relative toxicity of the oil spilled and the sensitivity of public resources present in the receiving environment; and

(2) Determining adequate monetary compensation for injury to public resources resulting from an oil spill.

[Statutory Authority: Chapter 90.48 RCW. 92-10-005 (Order 91-13), § 173-183-300, filed 4/23/92, effective 5/24/92.]

WAC 173-183-310 Authority. This regulation implements the establishment of a resource damage compensation schedule consistent with the provisions of RCW 90.48.366 for the discharge of oil in violation of chapter 90.48 or 90.56 RCW which requires the department to establish the compensation schedule in consultation with the departments of fisheries, wildlife, and natural resources, and the parks and recreation commission, and with the assistance of a scientific advisory board.

[Statutory Authority: Chapter 90.48 RCW. 92-10-005 (Order 91-13), § 173-183-310, filed 4/23/92, effective 5/24/92.]

WAC 173-183-320 Compensation schedule. (1) The compensation schedule determines adequate compensation for unquantifiable damages or for damages not quantifiable at a reasonable cost for persons liable under RCW 90.48.142.

(2) Adequate compensation as determined from the compensation schedule is derived from preexisting information of resource vulnerability to a class of oil spilled in a particular subregion of the state during a particular season, plus any additional information collected at the reconnaissance stage of the spill response.

(3) Under RCW 90.48.366, the amount of compensation assessed under this schedule shall be no less than one dollar per gallon of oil spilled and no greater than fifty dollars per gallon of oil spilled.

[Statutory Authority: Chapter 90.48 RCW. 92-10-005 (Order 91-13), § 173-183-320, filed 4/23/92, effective 5/24/92.]

WAC 173-183-330 Resource damage assessment using the compensation schedule. The compensation schedule includes:

(1) A relative ranking for each of the classes of oil defined in this chapter as determined by their known chemical, physical, and mechanical properties, and other factors that may affect the severity and persistence of the spill on the receiving environment;

(2) A relative vulnerability ranking of receiving environments which takes into account location of the spill, habitat and public resource sensitivity to oil, seasonal distribution of

public resources, areas of recreational use and aesthetic importance, the proximity of the spill to important habitats for birds, aquatic mammals, fish, or to species listed as threatened or endangered under state or federal law, and other areas of special ecological or recreational importance as determined by the department;

(3) A quantitative method for determining public resource damages resulting from an oil spill, based on the oil effects and vulnerability rankings designed to compensate the people of this state for those damages that cannot be quantified at a reasonable cost that result from oil spills; and

(4) A method for adjusting damages calculated under the compensation schedule based on actions taken by the potentially liable party that:

(a) Demonstrate a recognition and affirmative acceptance of responsibility for the spill, such as the immediate removal of oil and the amount of oil removed from the environment; or

(b) Enhance or impede the detection of the spill, the determination of the quantity of oil spilled, or the extent of damage, including the unauthorized removal of evidence such as injured fish or wildlife.

[Statutory Authority: Chapter 90.48 RCW. 92-10-005 (Order 91-13), § 173-183-330, filed 4/23/92, effective 5/24/92.]

WAC 173-183-340 Oil class ranking. (1) The purpose of this section is to provide a relative ranking of the severity of effects caused by a spilled oil. The ranking is based on the known chemical, physical, and mechanical properties of oils in the six classes identified in this section, as well as other properties affecting propensity to cause acute toxicity and mechanical injury, and to persist in the environment. For purposes of the compensation schedule, relative rankings of the severity of effects caused by a spilled oil are provided for the following classes of oils:

(a) Prudhoe Bay crude oil;

(b) Bunker C;

(c) No. 2 fuel oil;

(d) Gasoline;

(e) Kerosene; and

(f) Kerosene-type jet fuel.

(2) The relative ranking scores for the oil classes range from 1 to 5, where 1 represents the least harmful effect and 5 represents the most harmful effect. For purposes of RCW 90.48.366 and 90.48.367, the acute toxicity, mechanical injury, and persistence relative ranking scores for the oils described by the classes enumerated in subsection (1) of this section shall be as follows:

Table 1. Acute Toxicity, Mechanical Injury and Persistence Relative Ranking Scores for Classified Oils (OIL).

Oil Class	Acute Toxicity	Mechanical Injury	Persistence
Prudhoe Bay Crude Oil	0.9	3.6	5
Bunker C	2.3	5.0	5
No. 2 Fuel Oil	2.3	3.2	2
Gasoline	5.0	1.0	1
Kerosene	1.4	2.4	1
Kerosene-type Jet Fuel	1.4	2.4	1

(3) In cases where the spilled oil is not described by any of the oil classes listed in subsection (1) of this section, or is a mixture of oils, the department shall determine the acute toxicity, mechanical injury, and persistence scores as follows:

(a) By assigning the acute toxicity, mechanical injury, and persistence scores assigned to the oil class best describing the spilled oil from subsection (2) of this section; or

(b) By using the following guidance to determine the acute toxicity, mechanical injury, and persistence relative ranking scores:

(i) Acute toxicity relative ranking score. An acute toxicity raw score is determined by summing the weighted averages of the 1-, 2-, and 3-ringed aromatic compounds comprising the spilled oil and dividing this sum by 107, where aromatic compound composition is determined by percent-weight, and weighting is determined by aqueous solubility of the aromatic compounds, as described by the following formula:

Acute Toxicity Raw Score=

$$[(SOL_1*PCT\text{-}WT_1)+(SOL_2*PCT\text{-}WT_2)+(SOL_3*PCT\text{-}WT_3)]/107$$

where SOL_i= solubility in seawater of i-ring aromatic hydrocarbons, and

$PCT\text{-}WT_i$= percent weight of i-ring aromatic hydrocarbons in the spilled oil, i= 1, 2, and 3.

The final acute toxicity relative ranking score is determined by rounding the acute toxicity raw score to the nearest 0.1 using standard rounding procedures where decimals less than 0.05 are rounded down and decimals equal to or greater than 0.05 are rounded up.

(ii) Mechanical injury relative ranking score. A mechanical injury raw score is determined by subtracting 0.688 from the specific gravity of the spilled oil and dividing this result by 0.062 as follows:

Mechanical Injury Score= (SP - 0.688)/0.062

where SP= specific gravity of the spilled oil.

The final mechanical injury ranking score is determined by rounding the mechanical injury raw score to the nearest 0.1 using standard rounding procedures where decimals less than 0.05 are rounded down and decimals equal to or greater than 0.05 are rounded up.

(iii) Persistence relative ranking score. A persistence relative ranking score is determined from empirical data describing the length of time the spilled oil is known to, or is likely to, persist in a variety of habitat types. Scoring is assigned on a 1 to 5 scale as follows:

SCORE	ANTICIPATED PERSISTENCE
5	5 - 10 years or more
4	2 - 5 years
3	1 - 2 years
2	1 month to 1 year
1	days to weeks.

(4) In cases where the spilled oil is comprised of two or more types of oil, damages shall be calculated under the schedule for each oil type and then summed to calculate total damages liability.

[Statutory Authority: Chapter 90.48 RCW. 92-10-005 (Order 91-13), § 173-183-340, filed 4/23/92, effective 5/24/92.]

Reviser's note: The brackets and enclosed material in the text of the above section occurred in the copy filed by the agency.

COMPENSATION SCHEDULE FOR SPILLS INTO MARINE AND ESTUARINE WATERS, EXCLUDING ESTUARINE WATERS OF THE COLUMBIA RIVER

WAC 173-183-400 Vulnerability of marine and estuarine environments to oil spills. (1) The purpose of this section is to describe the method of ranking vulnerability of marine and estuarine environments, excluding the Columbia River estuary environment to oil spills for the purposes of assessing damages using the compensation schedule.

(2) Marine and estuarine waters of the state excluding the Columbia River estuary are divided into sixteen regions and one hundred thirty-one subregions for purposes of RCW 90.48.366, as designated on the maps attached as Appendix 5 of this chapter.

(3) A spill vulnerability score (SVS) shall be calculated at the time of a spill for the most sensitive subregion and season impacted by the spill. The SVS rates the vulnerability of public resources to spilled oil based on the propensity of the oil to cause acute toxicity and mechanical injury, and to persist in the environment. SVS is determined by summing the vulnerability scores for marine birds, marine mammals, fishery species, recreational use and habitats for the subregion(s) and most sensitive season impacted by the spill. The formula to be used to calculate SVS for each of the three oil effects, acute toxicity, mechanical injury, and persistence, is as follows:

Spill vulnerability score $(SVS)_{ij}$=
$HVS_i+BVS_j+MVS_j+MFVS_j+SFVS_j+SAVS_j+RVS_j$

where HVS_i= habitat vulnerability to oil's propensity to cause i
BVS= marine bird vulnerability score (WAC 173-183-420(3));
MVS= marine mammal vulnerability score (WAC 173-183-460(3));
MFVS= marine fisheries vulnerability score (WAC 173-183-430(3));
SFVS= shellfish vulnerability score (WAC 173-183-440(3));
SAVS= salmon vulnerability score (WAC 173-183-450(5));
RVS= recreation vulnerability score (WAC 173-183-470(3));
i= acute toxicity (AT), mechanical injury (MI), or persistence (Per); and
j= the most sensitive season affected by the spill: Spring, summer, fall, or winter

[Statutory Authority: Chapter 90.48 RCW. 92-10-005 (Order 91-13), § 173-183-400, filed 4/23/92, effective 5/24/92.]

WAC 173-183-410 Marine and estuarine habitat vulnerability. (1) The purpose of this section is to provide a marine and estuarine habitat vulnerability ranking. The marine and estuarine habitats present in the state are:

(a) Classified into thirty-seven types based on substrate type, energy regime and depth of occurrence; and

(b) Relatively ranked and scored for vulnerability to oil spills on a 1 to 5 scale, where a habitat vulnerability score (hv) of 5 represents the greatest vulnerability and an hv of 1 represents the least vulnerability.

(2) Marine and estuarine habitat vulnerability scores (hv) are based on the following:

(a) Presence of living public resources at risk, where living public resources include only those not otherwise incorporated into the compensation schedule in the marine fish, shellfish, salmon, marine mammal or marine bird vulnerability rankings of WAC 173-183-420 through 173-183-460; and

(b) Predicted sensitivity to the acute toxicity, mechanical injury and persistence effects of oil based on energy regime of the habitat and propensity to entrain oil.

(3) For purposes of RCW 90.48.366, marine and estuarine habitats of the state are classified into the following thirty-seven habitat types:

(a) Marine intertidal habitats.

(i) Exposed and semi-exposed rocky shores. Bedrock and boulder habitats exposed to the full range of wave energies of the Pacific (i.e., on the outer coast), or to extensive wave fetch along the Strait of Juan de Fuca. Rocky areas on the coast partly protected behind sea stacks or islands also fall into this category.

(ii) Sand-scoured rocky shores. Rocky headlands or sea stacks directly adjacent to high energy sandy beaches such that there is much suspended sand in the water, which scours the rock. Unique plants and animals are found here.

(iii) Protected rocky shores. Bedrock and boulder habitats lacking oceanic swell and extensive wave fetch; e.g., inside waters of the San Juan Islands, headlands in bays off the Strait of Juan de Fuca or well protected behind islands on the outer coast.

(iv) Semi-exposed cobble and mixed-coarse beaches. Beaches exposed to moderate wave action composed of cobble overlying sand, or to somewhat less wave action, with a mix of cobble, gravel, and sand where no one component occupies more than seventy percent of the surface. Algae may grow on larger cobbles, and animals live both on the surface and in the sediment. Species vary dramatically with degree of wave exposure and composition of the sediment. Found inside the San Juan Islands, outside of Whidbey Island, at semi-protected sites along the Strait, and behind island and sea stacks on the coast.

(v) Semi-exposed gravel beaches. Unstable beaches, containing some sand in more protected areas. Many sites along the Strait of Juan de Fuca.

(vi) Exposed sandy beaches. Pure marine sands found in moderate to high-energy areas, e.g., on the outer coast and along the Strait of Juan de Fuca. Mouths of bays with some wave action also fall into this category.

(vii) Semi-protected mixed-fine beaches. Mixed sand and silt habitats, found in bays and inlets with some wave action so they are not dominated by the finer sediments (muds). Patches of gravel may be present high on the shore.

(viii) Protected mud flats. Areas of little to no wave energy, where fine sediments settle and accumulate organic matter. Found in calm bays and inlets with little freshwater influx (i.e., not estuaries).

(b) Marine subtidal.

(i) Shallow subtidal rock and boulders. Areas less than 15 m depth with some currents so that sediments do not totally cover bedrock. Kelp beds are found in these habitats, which are widespread in the state.

(ii) Deep subtidal rock and boulders. Areas deeper than 15 m and thus lacking in significant algal cover, but still with enough currents to keep the substrate exposed. Common in the San Juans and the Strait.

(iii) Deep subtidal cobble and mixed-coarse areas. "Scoured" areas in channels or passes with high currents, composed entirely of cobbles or with gravel and sand mixed in.

(iv) Shallow subtidal mixed-coarse to mixed-fine areas (low energy). Areas ranging from cobbles lying over a matrix of sand and gravel to mixed sand and silt, in waters less than 15 m. Bays and inlets commonly have this range of substrate types. Plants and animals exist both on the cobbles and in the sediment.

(v) Shallow subtidal gravel or mixed-fine areas (high energy). Areas just offshore of sand or gravel beaches, where swells or wave action keep fine sediments from accumulating. Substrates range from pure gravel to gravel mixed with sand and shells. Common in the Strait.

(vi) Deep subtidal sand. Areas deeper than 15 m in the Strait or on the coast where swells keep the substratum fairly coarse.

(vii) Deep subtidal mixed-fine areas. Areas of sand, shells, and pebbles with some currents removing finer particles.

(viii) Deep subtidal muddy areas. Areas with no swell and few currents, where fine silts settle out and accumulate organic matter.

(ix) Open water. Areas deeper than 20 m.

(c) Estuarine intertidal.

(i) Open rocky shores. Rocky intertidal areas (including hardpan and riprap) in areas exposed to moderate waves or currents, e.g., on headlands in Puget Sound.

(ii) Open mixed-coarse beaches. One of the most common beach types in Puget Sound, composed of a mix of cobble, gravel, and sand in areas with some wave action that keeps finer silts suspended. Sparse salt marsh vegetation may occur at the tops of these beaches, especially in quieter areas.

(iii) Open gravel beaches. Areas of gravel or pebbles, often overlying sand, in areas of moderate wave action.

(iv) Open sandy beaches. Common habitats of gently sloping beaches but moderate wave action. May have gravel on the upper shore. Found in Puget Sound and in some areas of other estuaries, including Grays Harbor.

(v) Sandy low marshes. Found on spits, berms, and deltas where sand collects. Areas of different salinities are dominated by different marsh plant communities. Widespread (although disturbed) throughout the Puget Trough.

(vi) Mixed-fine beaches and low marshes. Found in backwaters or deltas away from large channels, where the substrate is mixed sand and mud, sometimes with patches of gravel or peat. Substrate is stable and organic-rich. Marsh communities vary with salinity.

(vii) Saline lagoons. Areas where water-borne sediments are deposited into a spit closing off an embayment, which is flushed regularly or irregularly. Salinities vary with evaporation and runoff but are generally high.

(viii) Low-salinity lagoons. Lagoons that are nearly separated from tidal/salt influence by a berm, and where there is a source of freshwater. Substrate is usually soft silt. This habitat is rare in the state.

(ix) Mud flats. Areas lacking in gravel or significant amounts of sand due to limited wave action, usually found in the heads of bays and inlets. Includes undisturbed channels and sloughs which drain slowly through a tidal cycle, and which may contain some sand.

(x) High salt marshes. Areas above normal high water but salt influenced, with organic/peat substrata. Salinities vary, and plant communities with them.

(xi) Transition zone wetland. Areas transitional between salt marshes and uplands, where salt water only rarely inundates. Substrata are peat or fine silts.

(d) Estuarine subtidal.

(i) Shallow subtidal rock and boulders. Areas less than 15 m deep with moderate currents or wave action that remove silt. Kelp beds develop here.

(ii) Deep subtidal rock and boulders. Areas in narrow channels or around headlands where currents remove sediment that otherwise would settle in these deeper areas. These habitats are essentially marine, since freshwater tends to stay layered in shallow water.

(iii) Shallow subtidal cobble and mixed-coarse areas. Mixed cobble, gravel, and sand remain in shallow areas fairly open to wave action or currents.

(iv) Deep subtidal cobble and mixed-coarse areas. Tidal currents running through deep channels in Puget Sound keep fine silts from settling and create areas of mixed cobbles, sand, and gravel.

(v) Shallow subtidal sandy or mixed-fine areas. High-current areas with little debris and some gravel, or less current-swept with more debris. Both are common outside of enclosed bays in Puget Sound.

(vi) Deep subtidal sandy or mixed-fine areas. Current-swept areas below 15 m. Organic debris and gravel tend to accumulate deeper (below 30 m), leading to different assemblages there.

(vii) Shallow subtidal muddy bays. Common habitats in open to partly enclosed bays in Puget Sound, where limited water movement allows fine sediments to accumulate. Organic enrichment is high, especially in more enclosed bays.

(viii) Deep subtidal muddy bays. Habitats in the heads and centers of inlets in Puget Sound where there is little motion and the substrate is soft mud and sand. Assemblages vary with depth and amount of organic debris accumulated.

(ix) Open water. Areas deeper than twenty meters.

(4) For purposes of RCW 90.48.366, marine and estuarine habitat vulnerability scores (hv) for each of the habitat types classified in subsection (3) of this section shall be as follows:

TABLE 2. Habitat Vulnerability for a Single Habitat Type and Oil Effect (hv)

HABITAT TYPE	HABITAT VULNERABILITY (hv) ACUTE (hv_{AT})	MECH (hv_{MI})	PERS (hv_{PER})
MARINE INTERTIDAL			
Exposed and semi-exposed rock shores	3.7	4.3	3.1
Sand-scoured rocky shores	3.3	3.8	2.7
Protected rocky shores	3.0	3.5	3.0
Semi-exposed cobble and mixed-coarse beaches	3.2	3.2	3.2
Semi-exposed gravel beaches	3.2	1.4	2.0
Exposed sandy beaches	2.9	1.3	1.8
Semi-protected mixed-fine beaches	3.2	2.6	3.7
Protected mud flats	3.8	2.7	4.3
MARINE SUBTIDAL			
Shallow subtidal rock and boulders	3.7	3.7	3.1
Deep subtidal rock and boulders	2.7	2.7	3.3
Deep subtidal cobble and mixed coarse	1.5	2.2	2.2
Shallow subtidal mixed-coarse to mixed-fine	3.6	3.6	3.6
Shallow subtidal gravel or mixed-fine	2.8	1.6	2.3
Deep subtidal sand	1.6	2.0	1.6
Deep subtidal mixed-fine	1.5	2.6	3.1
Deep subtidal muddy	2.0	2.0	3.2
Open water	5.0	3.2	2.2
ESTUARINE INTERTIDAL			
Open rocky shores	3.0	3.5	3.0
Open mixed-coarse beaches and low marsh	3.7	3.2	3.2
Open gravel beaches	3.4	1.5	2.2
Open sandy beaches	3.3	2.8	2.3
Sandy low marshes	3.5	3.0	3.0
Mixed-fine beaches and low marshes	4.3	4.3	4.3
Saline lagoons	3.7	3.7	4.1
Low-salinity lagoons	3.0	3.5	3.9
Mud flats	3.7	2.6	4.1
High salt marshes	3.0	3.5	3.9
Transition zone wetlands	3.0	3.5	3.9
ESTUARINE SUBTIDAL			
Shallow subtidal rock and boulders	3.2	3.2	2.6
Deep subtidal rock and boulders	2.3	2.3	2.8
Shallow subtidal cobble and mixed-coarse	2.6	3.2	3.2
Deep subtidal cobble and mixed-coarse	1.5	2.2	2.2
Shallow subtidal sandy or mixed-fine	3.2	3.2	3.2
Deep subtidal sandy or mixed-fine	2.0	2.4	2.8
Shallow subtidal muddy bays	3.0	2.4	3.9
Deep subtidal muddy bays	1.8	1.8	2.9
Open water	5.0	3.2	2.2

(5) When seagrass or kelp are present in a particular habitat type, the portion of the habitat type with seagrass or kelp shall be treated as a separate habitat type. The habitat vulnerability for a particular habitat type and oil effect (hv) shall be multiplied by a factor of 1.5 for habitat types with seagrass or kelp present. The RDA committee shall be responsible for determining whether seagrass or kelp are present in a habitat type, and the portion of a habitat type containing seagrass or kelp.

(6) In general, several of the habitat types classified in this section may be affected by a particular spill. The habitat vulnerability score for a particular spill and oil effect (HVSi) is composite of the habitat vulnerability scores for each of the habitat types affected by the spill which takes into consideration the percent coverage of each habitat type in the area of spill impact.

(7) The habitat vulnerability score for a particular spill and oil effect (HVS) shall be determined as follows:

(a) For spills of 1,000 gallons or more. Sum the weighted habitat vulnerability scores for each habitat type exposed to the spill as described by the formula provided in (c) of this subsection, where weighting is defined by percent coverage of each habitat type within the area of spill exposure.

(b) For spills of less than 1,000 gallons. Sum the weighted habitat vulnerability scores for each habitat type present in the subregion(s) exposed to the spill as described by the formula provided in (c) of this subsection, where weighting is defined by percent coverage of each habitat type present in the subregion(s) exposed to the spill.

(c) The formula to calculate the raw habitat vulnerability score for a particular spill and oil effect (HVSi) is as follows:

$$HVS_i = \sum_{j=1}^{n} (hv_{ij} \times PC_j)$$

where PC_j = Percent-coverage of habitat-type j expressed as a decimal;
hv_{ij}= habitat vulnerability for a particular habitat type & oil effect;
j= habitat type;
i= acute toxicity (AT), mechanical injury (MI) and persistence (PER); and
n= number of habitats to be considered as determined under (a) and (b) of this subsection.

(d) The final HVS_{AT}, HVS_{MI}, and HVS_{PER} scores are found by rounding the raw scores calculated from the formula in (c) of this subsection to the nearest 0.01 as follows: Decimals less than 0.005 shall be rounded down and decimals equal to or greater than 0.005 shall be rounded up.

[Statutory Authority: Chapter 90.48 RCW. 92-10-005 (Order 91-13), § 173-183-410, filed 4/23/92, effective 5/24/92.]

WAC 173-183-420 Marine bird vulnerability. (1) Each of the marine and estuarine subregions of state waters established in WAC 173-183-400(2) is relatively ranked and scored for marine bird vulnerability to oil spills on a 1 to 5 scale for each season, where a score of 5 represents the greatest vulnerability and a score of 1 represents the least vulnerability.

(2) The marine bird vulnerability ranking relatively ranks the vulnerability of seabirds, shorebirds, and waterfowl present in a subregion during a particular season to oil spills, where vulnerability is based on population status, abundance, roosting habits, escape behavior, flocking behavior, feeding specialization, population size, reproductive capacity, breeding dispersion, winter dispersion, seasonal exposure to waters where oil spills could occur, and significance of Washington population to total population.

(3) Marine bird seasonal vulnerability scores for each of the marine and estuarine subregions defined in WAC 173-183-400 are based on existing information and determinations made by the marine bird subcommittee of the scientific advisory board. For purposes of RCW 90.48.366, marine bird seasonal vulnerability scores (BVS) for each of the subregions defined in WAC 173-183-400 shall be as follows:

Table 4. Subregional Marine Bird Vulnerability Scores (BVS)

SUBREGION		SP	SU	FA	WI
101	NORTHERN OUTER COAST	5	5	5	5
102	KALALOCH	5	5	5	5
103	QUINAULT	5	5	5	5
104	COPALIS BEACH	5	5	5	5
105	GRAYS HARBOR	5	5	5	5
106	TWIN HARBORS BEACH	5	5	5	5
107	WILLAPA BAY	5	5	5	5
108	LONG BEACH	5	5	5	5
109	INNER SHELF	4	2	5	5
110	OUTER SHELF	4	1	1	1
111	SHELF EDGE	5	1	1	1
112	CONTINENTAL SLOPE	2	1	1	1
201	STRAIT OF JUAN DE FUCA-OUTER	3	2	5	4
203	CAPE FLATTERY	4	3	4	3
204	NEAH BAY	2	2	2	2
205	NEAH BAY TO CLALLAM BAY	2	3	3	2
206	CLALLAM BAY	2	2	2	2
207	CLALLAM BAY TO CRESCENT BAY	2	3	3	2
208	CRESCENT BAY	2	2	2	2
209	CRESCENT BAY TO EDIZ HOOK	2	2	2	4
301	STRAIT OF JUAN DE FUCA-INNER	3	3	3	4
302	EDIZ HOOK	1	1	1	1
303	PORT ANGELES	2	3	3	2
304	VOICE OF AMERICA	2	2	2	2
305	DUNGENESS SPIT	2	2	2	3
306	DUNGENESS BAY/HARBOR	4	2	2	3
307	JAMESTOWN	5	5	5	5
308	SEQUIM BAY	2	1	1	2
309	MILLER PENINSULA	2	2	2	3
310	PROTECTION ISLAND	4	5	5	3
311	DISCOVERY BAY	3	1	1	4
312	QUIMPER PENINSULA	2	3	3	4
313	WHIDBEY ISLAND	1	2	2	2
314	SMITH ISLAND	3	5	5	3
315	DECEPTION PASS	2	2	2	2
316	LOPEZ ISLAND (SOUTH SHORE)	5	4	4	3
317	SAN JUAN IS. (SOUTH SHORE)	2	2	2	2
401	ADMIRALTY INLET	3	5	5	2
402	SOUTH ADMIRALTY INLET	2	1	2	3
403	PORT TOWNSEND	3	2	3	4
404	OAK BAY	2	2	2	2
405	KILISUT HARBOR	3	2	3	4
501	BELLINGHAM CHANNEL	2	2	4	4
502	GUEMES CHANNEL	2	2	1	3
503	FIDALGO BAY	2	2	2	3
504	PADILLA BAY	5	5	4	5
505	SAMISH BAY	5	5	4	5
506	BELLINGHAM BAY	4	4	4	5
507	HALE PASSAGE	3	3	2	2
601	LUMMI BAY	5	5	3	4
602	CHERRY POINT	5	5	2	2
603	BIRCH BAY	4	4	3	3
604	SEMIAHOO SPIT	4	4	4	4
605	DRAYTON HARBOR	3	3	3	4
607	SAN JUAN IS.-NORTHERN TIER	3	3	2	4
608	GEORGIA STRAIT-EASTERN	4	4	4	4
701	PT. ROBERTS	4	4	2	4
703	GEORGIA STRAIT-WESTERN	2	2	2	2
801	NORTHERN HARO STRAIT	2	2	4	3
802	SOUTHERN HARO STRAIT	1	1	1	2
901	SOUTHERN ROSARIO STRAIT	3	3	3	5
902	CENTRAL ROSARIO STRAIT	3	3	5	4
903	NORTHERN ROSARIO STRAIT	5	5	5	4
1001	PRESIDENT CHANNEL	2	2	2	2
1002	NORTHERN AREAS	1	1	2	3
1101	SPEIDEN CHANNEL	1	1	2	2
1102	NORTHERN SAN JUAN CHANNEL	1	1	1	1
1103	SOUTHERN SAN JUAN CHANNEL	1	1	2	3
1104	WASP PASS	1	1	1	2
1105	UPRIGHT CHANNEL	1	1	2	2
1106	HARNEY CHANNEL	1	1	1	2
1107	OBSTRUCTION PASS	2	2	3	2

Table 4. Subregional Marine Bird Vulnerability Scores (BVS)

SUBREGION		SP	SU	FA	WI
1108	THATCHER PASS	1	1	1	1
1201	MOSQUITO/ROCHE COMPLEX	2	2	2	3
1202	FRIDAY HARBOR	2	2	2	2
1203	GRIFFIN BAY	2	2	2	3
1205	FISHERMAN BAY	2	2	2	3
1206	SWIFTS/SHOAL BAYS	2	2	2	2
1207	DEER HARBOR	2	2	2	2
1208	WEST SOUND	1	1	2	2
1209	EAST SOUND	2	2	1	2
1210	LOPEZ SOUND	2	2	3	4
1401	SKAGIT BAY	5	3	2	1
1402	PENN COVE/CRESCENT HARBOR	5	3	2	1
1403	SARATOGA PASSAGE	5	1	2	2
1404	HOLMES HARBOR	4	2	3	3
1405	PORT SUSAN	3	1	1	1
1406	POSSESSION SOUND	3	1	2	2
1501	HOOD CANAL ENTRANCE	2	1	2	3
1502	PORT LUDLOW	2	2	2	2
1503	PORT GAMBLE	2	2	2	2
1504	NORTHERN HOOD CANAL	2	1	2	2
1505	CENTRAL HOOD CANAL	2	1	2	2
1506	DABOB BAY	2	1	2	3
1507	QUILCENE BAY	2	2	2	2
1508	SOUTHCENTRAL HOOD CANAL	2	1	2	3
1509	ANNAS BAY	2	2	2	2
1510	GREAT BEND	3	1	3	5
1601	N. PUGET SOUND	4	1	2	2
1602	N. CENTRAL PUGET SOUND	2	1	2	2
1603	CENTRAL PUGET SOUND	2	1	2	2
1604	ELLIOT BAY	2	2	2	1
1605	EAST PASSAGE	2	1	2	2
1606	COLVOS PASSAGE	2	1	2	2
1607	COMMENCEMENT BAY	2	2	2	2
1608	NARROWS	3	2	3	4
1609	STEILACOOM	2	1	2	3
1610	NISQUALLY	2	1	2	3
1611	TREBLE-JOHNSON	2	2	2	2
1612	HALE PASSAGE	3	2	3	3
1613	CARR INLET	3	1	3	4
1614	PITT PASSAGE	2	2	2	2
1615	DRAYTON HARBOR	2	2	2	2
1616	CASE INLET	2	1	2	3
1617	HENDERSON INLET	2	2	2	1
1618	DANA PASSAGE	2	2	2	1
1619	BUDD INLET	2	2	2	2
1620	ELD INLET	2	2	2	2
1621	TOTTEN INLET	2	2	2	2
1622	PICKERING PASSAGE	2	2	2	2
1623	PEALE PASSAGE	2	2	2	1
1624	SQUAXIN	2	2	2	2
1625	SKOOKUM INLET	2	2	2	2
1626	HAMMERSLEY INLET	2	2	2	2
1627	OAKLAND BAY	2	2	2	2
1628	AGATE PASSAGE	2	2	2	2
1629	LIBERTY BAY	3	2	3	3
1630	PORT ORCHARD	2	2	2	2
1631	SINCLAIR INLET	3	2	3	3
1632	DYES INLET	2	2	2	2
1633	RICH PASSAGE	2	2	2	2
1634	QUARTERMASTER HARBOR	3	2	3	3
1635	DALCO PASSAGE	2	2	2	2
1636	BALCH PASS	2	2	2	2

(4) The marine bird vulnerability score for a spill shall be multiplied by 1.5 when any number of state or federal threatened or endangered marine birds are exposed to spilled oil.

[Statutory Authority: Chapter 90.48 RCW. 92-10-005 (Order 91-13), § 173-183-420, filed 4/23/92, effective 5/24/92.]

WAC 173-183-430 Marine fisheries vulnerability. (1) Each of the subregions designated in WAC 173-183-430 is relatively ranked and scored for marine fisheries vulnerability to oil spills on a 1 to 5 scale for each season where 5 represents the most vulnerable ranking and 1 represents the least vulnerable ranking.

(2) The marine fisheries vulnerability ranking relatively ranks the vulnerability of marine fisheries species present in a subregion to oil spills, where vulnerability is based on habitat preference, population status, abundance, fecundity, and sensitivity of life stages.

(3) Marine fisheries seasonal vulnerability scores for each of the marine and estuarine subregions are based on existing information and recommendations of the marine fisheries subcommittee. For purposes of RCW 90.48.366 marine fisheries seasonal vulnerability ranking scores (MFVS) for the subregions defined in WAC 173-183-400 are as follows:

Table 5. Subregional Marine Fisheries Vulnerability Scores (MFVS)

SUBREGION		SEASON			
		SP	SU	FA	WI
101	NORTHERN OUTER COAST	5	3	3	5
102	KALALOCH	5	3	3	5
103	QUINAULT	5	3	3	5
104	COPALIS BEACH	5	3	3	5
105	GRAYS HARBOR	5	5	5	5
106	TWIN HARBORS BEACH	5	3	3	4
107	WILLAPA BAY	5	5	5	5
108	LONG BEACH	5	3	3	4
109	INNER SHELF	5	3	3	4
110	OUTER SHELF	4	2	2	4
111	SHELF EDGE	4	1	2	3
112	CONTINENTAL SLOPE	2	1	1	1
201	STRAIT OF JUAN DE FUCA-OUTER	5	3	3	4
203	CAPE FLATTERY	5	3	3	4
204	NEAH BAY	5	3	3	4
205	NEAH BAY TO CLALLAM BAY	5	3	3	4
206	CLALLAM BAY	5	3	3	4
207	CLALLAM BAY TO CRESCENT BAY	5	3	3	4
208	CRESCENT BAY	5	3	3	4
209	CRESCENT BAY TO EDIZ HOOK	5	3	3	4
301	STRAIT OF JUAN DE FUCA-INNER	5	3	3	4
302	EDIZ HOOK	5	3	3	4
303	PORT ANGELES	5	3	3	4
304	VOICE OF AMERICA	5	3	3	4
305	DUNGENESS SPIT	5	3	3	4
306	DUNGENESS BAY/HARBOR	5	3	3	4
307	JAMESTOWN	5	3	3	4
308	SEQUIM BAY	5	3	3	4
309	MILLER PENINSULA	5	3	3	4
310	PROTECTION ISLAND	5	3	3	4
311	DISCOVERY BAY	5	3	3	4
312	QUIMPER PENINSULA	5	3	3	4
313	WHIDBEY ISLAND	5	3	3	4
314	SMITH ISLAND	5	3	3	4
315	DECEPTION PASS	5	3	3	4
316	LOPEZ ISLAND (SOUTH SHORE)	5	3	3	4
317	SAN JUAN ISLAND (SOUTH SHORE)	5	3	3	4
401	ADMIRALTY INLET	5	4	3	5
402	SOUTH ADMIRALTY INLET	5	4	3	5
403	PORT TOWNSEND	5	4	3	5
404	OAK BAY	5	4	3	5
405	KILISUT HARBOR	5	4	3	5
501	BELLINGHAM CHANNEL	5	4	3	5
502	GUEMES CHANNEL	5	4	3	5
503	FIDALGO BAY	5	4	3	5
504	PADILLA BAY	5	4	3	5
505	SAMISH BAY	5	3	3	5
506	BELLLINGHAM BAY	5	3	3	5
507	HALE PASSAGE	5	3	3	5
601	LUMMI BAY	5	3	3	5
602	CHERRY POINT	5	3	3	5
603	BIRCH BAY	5	3	3	5
604	SEMIAHOO SPIT	5	3	3	5
605	DRAYTON HARBOR	5	3	3	5
607	SAN JUAN ISLANDS-NORTHERN TIER	5	3	3	4
608	GEORGIA STRAIT-EASTERN	5	3	3	5
701	PT. ROBERTS	5	3	3	5
703	GEORGIA STRAIT-WESTERN	5	3	3	5
801	NORTHERN HARO STRAIT	5	3	3	4
802	SOUTHERN HARO STRAIT	5	3	3	4
901	SOUTHERN ROSARIO STRAIT	5	3	3	4
902	CENTRAL ROSARIO STRAIT	5	3	3	4
903	NORTHERN ROSARIO STRAIT	5	3	3	4
1001	PRESIDENT CHANNEL	5	3	3	4
1002	NORTHERN AREAS	5	3	3	4
1101	SPEIDEN CHANNEL	5	3	3	4
1102	NORTHERN SAN JUAN CHANNEL	5	3	3	4
1103	SOUTHERN SAN JUAN CHANNEL	5	3	3	4
1104	WASP PASS	5	3	3	4
1105	UPRIGHT CHANNEL	5	3	3	4
1106	HARNEY CHANNEL	5	3	3	4
1107	OBSTRUCTION PASS	5	3	3	4
1108	THATCHER PASS	5	3	3	4
1201	MOSQUITO/ROCHE COMPLEX	5	3	3	4
1202	FRIDAY HARBOR	5	3	3	4
1203	GRIFFIN BAY	5	3	3	4
1205	FISHERMAN BAY	5	3	3	4
1206	SWIFTS/SHOAL BAYS	5	3	3	4
1207	DEER HARBOR	5	3	3	4
1208	WEST SOUND	5	3	3	4
1209	EAST SOUND	5	3	3	4
1210	LOPEZ SOUND	5	3	3	4
1401	SKAGIT BAY	5	4	3	5
1402	PENN COVE /CRESCENT HARBOR	5	4	3	5
1403	SARATOGA PASSAGE	5	4	3	5
1404	HOLMES HARBOR	5	4	3	5
1405	PORT SUSAN	5	4	3	5
1406	POSSESSION SOUND	5	4	3	5
1501	HOOD CANAL ENTRANCE	2	1	1	2
1502	PORT LUDLOW	2	1	1	2
1503	PORT GAMBLE	2	1	1	2
1504	NORTHERN HOOD CANAL	2	1	1	2
1505	CENTRAL HOOD CANAL	2	1	1	2
1506	DABOB BAY	2	1	1	2
1507	QUILCENE BAY	2	1	1	2
1508	SOUTHCENTRAL HOOD CANAL	2	1	1	2
1509	ANNAS BAY	2	1	1	2
1510	GREAT BEND	2	1	1	2
1601	N. PUGET SOUND	5	4	3	5
1602	N. CENTRAL PUGET SOUND	5	4	3	5
1603	CENTRAL PUGET SOUND	5	4	3	5
1604	ELLIOT BAY	5	4	3	5
1605	EAST PASSAGE	4	3	2	3
1606	COLVOS PASSAGE	4	3	2	3
1607	COMMENCEMENT BAY	4	3	2	3
1608	NARROWS	4	3	2	3
1609	STEILACOOM	4	3	2	3
1610	NISQUALLY	4	3	2	3
1611	TREBLE-JOHNSON	4	3	2	3
1612	HALE PASSAGE	4	3	2	3
1613	CARR INLET	4	3	2	3
1614	PITT PASSAGE	4	3	2	3
1615	DRAYTON HARBOR	4	3	2	3
1616	CASE INLET	4	3	2	3
1617	HENDERSON INLET	4	3	2	3
1618	DANA PASSAGE	4	3	2	3
1619	BUDD INLET	4	3	2	3
1620	ELD INLET	4	3	2	3

SUBREGION		SEASON SP	SU	FA	WI
1621	TOTTEN INLET	4	3	2	3
1622	PICKERING PASSAGE	4	3	2	3
1623	PEALE PASSAGE	4	3	2	3
1624	SQUAXIN	4	3	2	3
1625	SKOOKUM INLET	4	3	2	3
1626	HAMMERSLEY INLET	4	3	2	3
1627	OAKLAND BAY	4	3	2	3
1628	AGATE PASSAGE	5	4	3	5
1629	LIBERTY BAY	5	5	5	5
1630	PORT ORCHARD	5	5	5	5
1631	SINCLAIR INLET	5	5	5	5
1632	DYES INLET	5	5	5	5
1633	RICH PASSAGE	5	5	5	5
1634	QUARTERMASTER HARBOR	4	3	2	3
1635	DALCO PASSAGE	4	3	2	3
1636	BALCH PASS	4	3	2	3

[Statutory Authority: Chapter 90.48 RCW. 92-10-005 (Order 91-13), § 173-183-430, filed 4/23/92, effective 5/24/92.]

WAC 173-183-440 Shellfish vulnerability. (1) Each of the subregions designated in WAC 173-183-430 is relatively ranked and scored for shellfish vulnerability to oil spills on a 1 to 5 scale for each season where 5 represents the most vulnerable ranking and 1 represents the least vulnerable ranking.

(2) Shellfish vulnerability ranking relatively ranks the vulnerability of shellfish present in a subregion to oil spills, where vulnerability is based on habitat preference, population status, abundance, fecundity, and sensitivity of life stages.

(3) Shellfish seasonal vulnerability scores for each of the marine and estuarine subregions are based on existing information and recommendations of the shellfish subcommittee of the scientific advisory board. For purposes of RCW 90.48.366 shellfish seasonal vulnerability ranking scores (SFVS) for the subregions defined in WAC 173-183-400 are as follows:

Table 6. Shellfish Vulnerability Scores (SFVS)

Region/Subregion	SP	SU	FA	WI
101	4	4	4	4
102	5	5	5	5
103	3	3	3	3
104	4	4	4	4
105	2	2	2	2
106	3	3	2	2
107	4	4	4	4
108	4	3	3	3
109	5	5	5	5
110	1	1	1	1
111	1	1	1	1
112	1	1	1	1
2	5	5	5	5
3	5	5	5	5
401	2	1	1	2
402	3	3	3	3
403	4	4	3	4
404	3	3	3	3
405	4	4	3	4
5	5	5	5	5
6	5	5	4	5
7	5	5	4	5
8	4	3	3	4
9	4	3	3	4
1	4	3	3	4
11	4	3	3	4
12	4	3	3	4
1401	2	3	3	2
1402	1	1	1	1
1403	1	1	1	1
1404	1	1	1	1
1405	1	2	2	1
1406	1	2	2	1
1501	2	2	2	2
1502	2	2	2	2
1503	2	2	2	2
1504	3	3	2	2
1505	3	3	2	2
1506	3	3	2	2
1507	3	3	2	2
1508	3	4	3	3
1509	3	4	3	3
1510	3	4	3	3
1601	2	2	2	2
1602	2	2	2	2
1603	2	2	2	2
1604	2	2	2	2
1605	2	2	2	2
1606	2	2	2	2
1607	2	2	2	2
1608	2	1	1	2
1609	5	5	5	5
1610	5	5	5	5
1611	5	5	5	5
1612	5	5	5	5
1613	5	5	5	5
1614	5	5	5	5
1615	5	5	5	5
1616	5	5	4	5
1617	5	5	5	5
1618	1	1	1	1
1619	4	5	4	4
1620	4	5	4	4
1621	4	5	4	4
1622	5	5	4	5
1623	4	5	4	4
1624	4	5	4	4
1625	4	5	4	4
1626	4	5	4	4
1627	4	5	4	4
1628	4	3	3	3
1629	4	3	3	3
1630	4	3	3	3
1631	4	3	3	3
1632	4	3	3	3
1633	4	3	3	3
1634	2	2	2	2
1635	2	2	2	2
1636	5	5	5	5

(4) The shellfish vulnerability score for a spill shall be multiplied by 1.5 when any number of individuals of state or federal threatened or endangered shellfish species are exposed to spilled oil.

[Statutory Authority: Chapter 90.48 RCW. 92-10-005 (Order 91-13), § 173-183-440, filed 4/23/92, effective 5/24/92.]

WAC 173-183-450 Salmon vulnerability. (1) The salmon vulnerability ranking is based on seasonal habitat preference of juveniles during outmigration, adults as they return to spawn and the presence of oil in river mouths during peak occurrence of salmon runs. The salmon vulnerability ranking was developed from existing information and determinations of the salmon subcommittee of the scientific advisory board. In the case of Chinook salmon, habitat preference differs for subyearlings and yearlings.

(2) The vulnerability of five salmon species in nine habitats are relatively scored for vulnerability to oil spills on a 1 to 5 scale for each season, where 5 represents the most vulnerable condition, and a score of 1 represents the least vulnerable condition, as follows:

Table 7. Vulnerability of Salmon Species and/or Species Yearclass by Habitat and Season

SPECIES/YEARCLASS and SALMON VULNERABILITY HABITAT	HABITAT VULNERABILITY SCORE (savs) SEASON			
	SP	SU	FA	WI
Chinook (subyearling)				
Intertidal				
Rocky	1	1	1	1
Cobble	2	2	1	1
Gravel	3	3	2	2
Sand (vegetated)	4	5	3	3
Sand (no vegetation)	3	3	2	2
Mud (vegetated)	4	5	3	3
Mud (no vegetation)	3	3	2	3
Subtidal	2	2	1	1
Pelagic	4	4	3	3
Chinook (yearling)				
Intertidal				
Rocky	1	1	1	1
Cobble	3	3	2	2
Gravel	3	3	3	2
Sand (vegetated)	3	3	2	2
Sand (no vegetation)	3	3	2	2
Mud (vegetated)	3	3	2	2
Mud (no vegetation)	3	3	2	2
Subtidal	2	2	1	1
Pelagic	4	4	3	3
Coho				
Intertidal				
Rocky	1	1	1	1
Cobble	3	2	2	2
Gravel	3	4	2	2
Sand (vegetated)	5	4	3	4
Sand (no vegetation)	3	2	2	3
Mud (vegetated)	5	4	3	4
Mud (no vegetation)	3	4	2	3
Subtidal	2	2	1	1
Pelagic	4	4	3	3
Pink				
Intertidal				
Rocky	1	1	1	1
Cobble	2	1	1	1
Gravel	3	1	1	3
Sand (vegetated)	5	2	2	5
Sand (no vegetation)	3	2	2	3
Mud (vegetated)	5	2	2	5
Mud (no vegetation)	3	1	1	3
Subtidal	2	1	1	1
Pelagic	4	2	2	2
Chum				
Intertidal				
Rocky	1	1	1	1
Cobble	2	1	1	1
Gravel	3	2	2	3
Sand (vegetated)	5	3	2	5
Sand (no vegetation)	3	2	2	3
Mud (vegetated)	5	4	2	5
Mud (no vegetation)	3	2	2	3
Subdtidal	2	2	1	1
Pelagic	4	4	2	2
Sockeye				
Intertidal				
Rocky	2	2	1	1
Cobble	2	1	1	1
Gravel	2	1	1	1
Sand (vegetated)	2	1	1	1
Sand (no vegetation)	2	1	1	1
Mud (vegetated)	2	1	1	1
Mud (no vegetation)	3	1	1	1
Subtidal	1	2	1	1
Pelagic	4	4	2	2

The habitat-types classified under WAC 173-183-400 correlate with the habitats listed in Table 7 as follows:

TABLE. 8. KEY TO TRANSLATINC MARINE/ESTUARINE HABITAT TYPES CLASSIFIED UNDER WAC 173-183-410 TO SALMON VULNERABILITY HABITATS

MARINE/ESTUARINE HABITAT TYPE from WAC 173-183-410(3)	EQUIVALENT SALMON VULNERABILITY HABITAT
Marine Intertidal, exposed and semi-exposed rocky shores	Intertidal, rocky
Marine Intertidal, sand-scoured rocky shores	Intertidal, rocky
Marine Intertidal, protected rocky shores	Intertidal, rocky
Estuarine Intertidal, open rocky shores	Intertidal, rocky
Marine Intertidal, semi-exposed cobble and mixed-course beaches	Intertidal, cobble
Estuarine Intertidal, open mixed-course beaches	Intertidal, cobble
Marine Intertidal, semi-exposed gravel beaches	Intertidal, gravel
Estuarine Intertidal, open gravel beaches	Intertidal, gravel
Marine Intertidal, exposed sandy beaches	Intertidal, sand (presence of vegetation will be determined at the time of the spill)
Marine Intertidal, semi-protected mixed-fine beaches	Intertidal, sand (presence of vegetation will be determined at the time of the spill)
Estuarine Intertidal, open sandy beaches	Intertidal, sand (presence of vegetation will be determined at the time of the spill)
Estuarine Intertidal, sandy low marshes	Intertidal, sand (presence of vegetation will be determined at the time of the spill)
Estuarine Intertidal, mixed-fine beaches and low marshes	Intertidal, sand (presence of vegetation will be determined at the time of the spill)
Marine Intertidal, protected mud flats	Intertidal, mud (presence of vegetation will be determined at the time of the spill)
Estuarine Intertidal, mud flats	Intertidal, mud (presence of vegetation will be determined at the time of the spill)
all Marine and Estuarine Subtidal categories except open water	Subtidal
Marine Subtidal, open water	Pelagic
Estuarine Subtidal, open water	Pelagic

(3) For each oil spill where the compensation schedule is applied, the RDA committee shall determine the following:

(a) For spills greater than 1,000 gallons, the salmon vulnerability habitat(s) exposed to spilled oil and each habitat's percent-coverage of the total area exposed to spilled oil;

(b) For spills of less than 1,000 gallons, the salmon vulnerability habitat(s) in the subregion(s) exposed to spilled oil and the percent-coverage of these habitats in the exposed subregion(s);

(c) The season in which spill impacts will be greatest;

(d) The individual species/year class vulnerability score (SAVSi) as described in subsection (4) of this section; and

(e) The composite salmon vulnerability score for a spill (SAVSs) as described in subsection (5) of this section.

(4) From the information enumerated in subsection (2) of this section, the RDA committee shall determine the species/year class vulnerability score for a spill (SAVSi) by summing the weighted species/year class vulnerability scores for each of the salmon vulnerability habitats classified in Table 8 of subsection (2) of this section, where weighting is defined as percent-coverage of the salmon vulnerability habitats as determined in subsection (3) of this section, as follows:

$SAVS_i = (savs_1 * PCT\text{-}COV_1) + (savs_2 * PCT\text{-}COV_2) + \ldots + (savs_n * PCT\text{-}COV_n)$

where $SAVS_i$ = salmon vulnerability score for a species/year class;
$savs_j$ = species/year class habitat vulnerability score for the season of greatest spill impact from subsection (2) of this section;
$PCT\text{-}COV_j$ = percent-coverage of habitat j from subsection (2) of this section;
i = Chinook, subyearling (Cs); Chinook, yearling (Cy); Coho (C); Pink (P); Chum (Ch); and Sockeye (So); and
n = the number of salmon vulnerabililty habitats used to calculate SAVS as determined in subsection (3) of this section.

(5) The raw salmon vulnerability score for a spill ($SAVS_s$) shall be calculated as follows:

(a) In years when pink salmon are present in state waters. The chinook salmon spill vulnerability scores for subyearlings ($SAVS_{Cs}$) and yearlings ($SAVS_{Cy}$) as determined in subsection (4) of this section shall be averaged, then added to the spill vulnerability scores for coho ($SAVS_C$), pink ($SAVS_P$), chum ($SAVS_{Ch}$) and sockeye ($SAVS_{So}$) salmon as determined in subsection (4) of this section. The sum of these scores shall then be divided by 5, as described by the following formula:

$SAVS_s = [(SAVS_{Cs} + SAVS_{Cy})/2 + SAVS_C + SAVS_P + SAVS_{Ch} + SAVS_{So}]/5$

$SAVS_s$ = salmon vulnerability score for a spill;
$SAVS_{Cs}$ = chinook, subyearling vulnerability score from subsection (4) of this section;
$SAVS_{Cy}$ = chinook (yearling) vulnerability score from subsection (4) of this section;
$SAVS_C$ = coho salmon vulnerability score from subsection (4) of this section;
$SAVS_P$ = pink salmon vulnerability score from subsection (4) of this section;
$SAVS_C$ = chum salmon vulnerability score from subsection (4) of this section;
$SAVS_{So}$ = sockeye salmon vulnerability score from subsection (4) of this section;

(b) In years when pink salmon are not present in state waters. The chinook salmon spill vulnerability scores for subyearlings ($SAVS_{Cs}$) and yearlings ($SAVS_{Cy}$) as determined in subsection (4) of this section shall be averaged, then added to the spill vulnerability scores for coho ($SAVS_C$), chum ($SAVS_{Ch}$) and sockeye ($SAVS_{So}$) salmon as determined in subsection (4) of this section. The sum of these scores shall then be divided by 4, as described by the following formula:

$SAVS_s = [(SAVS_{Cs} + SAVS_{Cy})/2 + SAVS_C + SAVS_{Ch} + SAVS_{So}]/4$

where $SAVS_s$ = salmon vulnerability score for a spill;
$SAVS_{Cs}$ = chinook, subyearling vulnerability score from subsection (4) of this section;
$SAVS_{Cy}$ = chinook (yearling) vulnerability score from subsection (4) of this section;
$SAVS_C$ = coho salmon vulnerability score from subsection (4) of this section;
$SAVS_P$ = pink salmon vulnerability score from subsection (4) of this section;
$SAVS_C$ = chum salmon vulnerability score from subsection (4) of this section;
$SAVS_{So}$ = sockeye salmon vulnerability score from subsection (4) of this section;

(6) If spilled oil enters a river mouth, $SAVS_i$ from subsection (4) of this section shall be assigned a score of 5 for each species/year class in peak occurrence in a river mouth during the period of time the spilled oil enters and remains in the river mouth. Scores of 5 determined for species/year classes under this subsection shall supersede $SAVS_i$ scores calculated under subsection (4) of this section. The RDA committee shall make determinations of whether oil enters a river mouth and whether species/year classes are in peak occurrence when spilled oil is present in a river mouth.

(7) The final $SAVS_s$ score is found by rounding the raw $SAVS_s$ score calculated in subsection (5) of this section to the nearest 0.01 as follows: Decimals less than 0.005 shall be rounded down and decimals equal to or greater than 0.005 shall be rounded up.

(8) The final salmon vulnerability score for a spill shall be multiplied by 1.5 when any number of individuals of state or federal threatened or endangered salmon races and/or runs are exposed to spilled oil.

[Statutory Authority: Chapter 90.48 RCW. 92-10-005 and 92-13-083 (Order 91-13 and 91-13A), § 173-183-450, filed 4/23/92 and 6/16/92, effective 5/24/92 and 7/17/92.]

Reviser's note: The brackets and enclosed material in the text of the above section occurred in the copy filed by the agency.

WAC 173-183-460 Marine mammal vulnerability. (1) Each of the marine and estuarine subregions of state waters designated in WAC 173-183-400(2) is relatively ranked and scored for marine mammal vulnerability to oil

spills on a 1 to 5 scale for each season where 5 represents the greatest vulnerability and 1 represents the least vulnerability.

(2) Marine mammal vulnerability ranking scores take into consideration species presence, diversity, population status, breeding vulnerability, presence of young, physiological vulnerability, primary habitat, feeding habitats and abundance.

(3) Marine mammal seasonal vulnerability scores for each of the marine and estuarine subregions of state waters are based on existing information and determinations made by the marine mammals subcommittee of the scientific advisory board. For purposes of RCW 90.48.366, marine mammal vulnerability ranking scores for subregions classified in WAC 173-183-400(2) are as follows:

Table 9. Marine Mammal Vulnerability Scores (MVS)

SUBREGION		SEASON SP	SU	FA	WI
101	NORTHERN OUTER COAST	5	5	5	5
102	KALALOCH	5	5	5	5
103	QUINAULT	5	5	5	5
104	COPALIS BEACH	5	5	5	4
105	GRAYS HARBOR	5	4	5	4
106	TWIN HARBORS BEACH	5	5	5	4
107	WILLAPA BAY	5	5	5	4
108	LONG BEACH	5	5	5	5
109	INNER SHELF	5	5	5	5
110	OUTER SHELF	4	2	3	3
111	SHELF EDGE	4	1	3	3
112	CONTINENTAL SLOPE	1	1	1	1
201	STRAIT OF JUAN DE FUCA-OUTER	4	4	3	2
203	CAPE FLATTERY	4	4	3	2
204	NEAH BAY	4	4	3	2
205	NEAH BAY TO CLALLAM BAY	3	3	2	2
206	CLALLAM BAY	3	3	2	2
207	CLALLAM BAY TO CRESCENT BAY	3	3	2	2
208	CRESCENT BAY	3	3	2	2
209	CRESCENT BAY TO EDIZ HOOK	3	3	2	2
301	STRAIT OF JUAN DE FUCA-INNER	4	4	4	3
302	EDIZ HOOK	4	4	4	3
303	PORT ANGELES	4	4	4	3
304	VOICE OF AMERICA	4	4	4	3
305	DUNGENESS SPIT	4	4	4	3
306	DUNGENESS BAY/HARBOR	4	4	4	3
307	JAMESTOWN	4	4	4	3
308	SEQUIM BAY	4	4	4	3
309	MILLER PENINSULA	4	4	4	3
310	PROTECTION ISLAND	4	4	4	3
311	DISCOVERY BAY	4	4	4	3
312	QUIMPER PENNSULA	4	4	4	3
313	WHIDBEY ISLAND	4	4	4	3
314	SMITH ISLAND	4	4	4	3
315	DECEPTION PASS	4	4	4	3
316	LOPEZ ISLAND (SOUTH SHORE)	4	4	4	3
317	SAN JUAN ISLAND (SOUTH SHORE)	4	4	4	3
401	ADMIRALTY INLET	4	4	4	3
402	SOUTH ADMIRALTY INLET	4	4	4	3
403	PORT TOWNSEND	4	4	4	3
404	OAK BAY	4	4	4	3
405	KILISUT HARBOR	4	4	4	3
501	BELLINGHAM CHANNEL	2	3	2	2
502	GUEMES CHANNEL	2	3	2	2
503	FIDALGO BAY	2	3	2	2
504	PADILLA BAY	2	3	2	2
505	SAMISH BAY	2	3	2	2
506	BELLINGHAM BAY	2	3	2	2
507	HALE PASSAGE	2	3	2	2
601	LUMMI BAY	4	4	4	3
602	CHERRY POINT	4	4	4	3
603	BURCH BAY	4	4	4	3
604	SEMIAHOO SPIT	4	4	4	3

Table 9. Marine Mammal Vulnerability Scores (MVS)

SUBREGION		SEASON SP	SU	FA	WI
605	DRAYTON HARBOR	4	4	4	3
607	SAN JUAN ISLANDS-NORTHERN TIER	4	4	4	3
608	GEORGIA STRAIT-EASTERN	4	4	4	3
701	PT. ROBERTS	4	4	4	3
703	GEORGIA STRAIT-WESTERN	4	4	4	3
801	NORTHERN HARO STRAIT	5	4	4	4
802	SOUTHERN HARO STRAIT	5	4	4	4
901	SOUTHERN ROSARIO STRAIT	4	4	3	2
902	CENTRAL ROSARIO STRAIT	4	4	3	2
903	NORTHERN ROSARIO STRAIT	5	4	3	2
1001	PRESIDENT CHANNEL	5	4	4	3
1002	NORTHERN AREAS	5	4	4	3
1101	SPEIDEN CHANNEL	3	3	3	2
1102	NORTHERN SAN JUAN CHANNEL	3	3	3	2
1103	SOUTHERN SAN JUAN CHANNEL	3	3	3	2
1104	WASP PASS	3	3	3	2
1105	UPRIGHT CHANNEL	3	3	3	2
1106	HARNEY CHANNEL	3	3	3	2
1107	OBSTRUCTION PASS	3	3	3	2
1108	THATCHER PASS	3	3	3	2
1201	MOSQUITO/ROCHE COMPLEX	3	3	3	2
1202	FRIDAY HARBOR	3	3	3	2
1203	GRIFFIN BAY	3	3	3	2
1205	FISHERMAN BAY	3	3	3	2
1206	SWIFTS/SHOAL BAYS	3	3	3	2
1207	DEER HARBOR	3	3	3	2
1208	WEST SOUND	3	3	3	2
1209	EAST SOUND	3	3	3	2
1210	LOPEZ SOUND	3	3	3	2
1401	SKAGIT BAY	2	1	1	1
1402	PENN COVE/CRESCENT HARBOR	2	1	1	1
1403	SARATOGA PASSAGE	2	1	1	2
1404	HOLMES HARBOR	2	1	1	1
1405	PORT SUSAN	2	1	1	1
1406	POSSESSION SOUND	2	1	1	2
1501	HOOD CANAL ENTRANCE	1	1	1	1
1502	PORT LUDLOW	1	1	1	1
1503	PORT GAMBLE	1	1	1	1
1504	NORTHERN HOOD CANAL	1	1	1	1
1505	CENTRAL HOOD CANAL	1	1	1	1
1506	DABOB BAY	1	1	1	1
1507	QUILCENE BAY	1	1	1	1
1508	SOUTHCENTRAL HOOD CANAL	1	1	1	1
1509	ANNAS BAY	1	1	1	1
1510	GREAT BEND	1	1	1	1
1601	N. PUGET SOUND	3	2	2	2
1602	N. CENTRAL PUGET SOUND	3	2	2	2
1603	CENTRAL PUGET SOUND	2	1	1	1
1604	ELLIOT BAY	2	1	1	1
1605	EAST PASSAGE	2	1	1	1
1606	COLVOS PASSAGE	2	1	1	1
1607	COMMENCEMENT BAY	2	1	1	1
1608	NARROWS	2	1	1	1
1609	STEILACOOM	2	1	1	1
1610	NISQUALLY	2	1	1	1
1611	TREBLE-JOHNSON	2	1	1	1
1612	HALE PASSAGE	2	1	1	1
1613	CARR INLET	2	1	1	1
1614	PITT PASSAGE	2	1	1	1
1615	DRAYTON HARBOR	2	1	1	1
1616	CASE INLET	2	1	1	1
1617	HENDERSON INLET	2	1	1	1
1618	DANA PASSAGE	2	1	1	1
1619	BUDD INLET	2	1	1	1
1620	ELD INLET	2	1	1	1
1621	TOTTEN INLET	2	1	1	1
1622	PICKERING PASSAGE	2	1	1	1
1623	PEALE PASSAGE	2	1	1	1
1624	SQUAXIN	2	1	1	1
1625	SKOOKUM INLET	2	1	1	1
1626	HAMMERSLEY INLET	2	1	1	1

Table 9. Marine Mammal Vulnerability Scores (MVS)

SUBREGION		SEASON SP	SU	FA	WI
1627	OAKLAND BAY	2	1	1	1
1628	AGATE PASSAGE	2	1	1	1
1629	LIBERTY BAY	2	1	1	1
1630	PORT ORCHARD	2	1	1	1
1631	SINCLAIR INLET	2	1	1	1
1632	DYES INLET	2	1	1	1
1633	RICH PASSAGE	2	1	1	1
1634	QUARTERMASTER HARBOR	2	1	1	1
1635	DALCO PASSAGE	2	1	1	1
1636	BALCH PASS	2	1	1	1

(4) The marine mammal vulnerability score for a spill shall be multiplied by 1.5 when any number of state or federal threatened or endangered marine mammal species are exposed to spilled oil.

[Statutory Authority: Chapter 90.48 RCW. 92-10-005 (Order 91-13), § 173-183-460, filed 4/23/92, effective 5/24/92.]

WAC 173-183-470 Marine and estuarine recreation vulnerability. (1) Each of the marine and estuarine subregions of state waters designated in WAC 173-183-400(2) are relatively ranked and scored for recreation vulnerability on a 1 to 5 scale for each season where a score of 5 represents the greatest vulnerability and a score of 1 represents the least vulnerability.

(2) Recreation vulnerability ranking scores take into consideration seasonal level of participation in recreational activities, number of recreation sites and types of recreational amenities available in a subregion.

(3) Recreation vulnerability ranking scores for each of the marine and estuarine subregions of state waters in each season has been determined from existing information and recommendations of the recreation subcommittee of the scientific advisory board. For purposes of RCW 90.48.366, recreation vulnerability ranking scores (RVS) for the subregions designated in WAC 173-183-400(2) are as follows:

Table 10. Marine and Estuarine Recreation Vulnerability Scores (RVS)

SUBREGION		SEASON SP	SU	FA	WI
101	NORTHERN OUTER COAST	5	5	5	5
102	KALALOCH	5	5	5	5
103	QUINAULT	1	1	1	1
104	COPALIS BEACH	5	5	5	5
105	GRAYS HARBOR	4	4	4	3
106	TWIN HARBORS BEACH	5	5	5	5
107	WILIAPA BAY	5	5	5	5
108	LONG BEACH	5	5	5	5
109	INNER SHELF	1	1	1	1
110	OUTER SHELF	1	1	1	1
111	SHELF EDGE	1	1	1	1
112	CONTINENTAL SLOPE	1	1	1	1
201	STRAIT OF JUAN DE FUCA-OUTER	1	1	1	1
203	CAPE FLATTERY	1	1	1	1
204	NEAH BAY	1	1	1	1
205	NEAH BAY TO CLALLAM BAY	5	5	5	4
206	CLALLAM BAY	3	4	3	2
207	CLALLAM BAY TO CRESCENT BAY	5	5	5	4
208	CRESCENT BAY	3	4	3	3
209	CRESCENT BAY TO EDIZ HOOK	4	5	4	3
301	STRAIT OF JUAN DE FUCA-INNER	1	1	1	1
302	EDIZ HOOK	3	4	3	3
303	PORT ANGELES	5	5	5	4
304	VOICE OF AMERICA	2	3	2	2
305	DUNGENESS SPIT	1	1	1	1
306	DUNGENESS BAY/HARBOR	5	5	5	4
307	JAMESTOWN	2	3	2	2
308	SEQUIM BAY	4	5	4	4
309	MILLER PENINSULA	2	3	2	2
310	PROTECTION ISLAND	1	1	1	1
311	DISCOVERY BAY	2	2	2	2
312	QUIMPER PENNSULA	3	3	2	2
313	WHIDBEY ISLAND	2	3	2	2
314	SMITH ISLAND	1	1	1	1
315	DECEPTION PASS	5	5	5	5
316	LOPEZ ISLAND (SOUTH SHORE)	4	5	4	3
317	SAN JUAN ISLAND (SOUTH SHORE)	4	5	4	3
401	ADMIRALTY INLET	5	5	5	4
402	SOUTH ADMIRALTY INLET	5	5	5	4
403	PORT TOWNSEND	3	4	3	3
404	OAK BAY	4	5	4	3
405	KILISUT HARBOR	2	2	2	2
501	BELLINGHAM CHANNEL	5	5	5	4
502	GUEMES CHANNEL	1	1	1	1
503	FIDALGO BAY	4	4	3	3
504	PADILLA BAY	5	5	5	4
505	SAMISH BAY	4	4	3	3
506	BELLINGHAM BAY	5	5	5	4
507	HALE PASSAGE	3	4	3	2
601	LUMMI BAY	1	1	1	1
602	CHERRY POINT	1	1	1	1
603	BURCH BAY	3	4	3	3
604	SEMIAHOO SPIT	3	4	3	3
605	DRAYTON HARBOR	2	2	2	2
607	SAN JUAN ISLANDS-NORTHERN TIER	5	5	5	5
608	GEORGIA STRAIT-EASTERN	1	1	1	1
701	PT. ROBERTS	3	3	3	2
703	GEORGIA STRAIT-WESTERN	1	1	1	1
801	NORTHERN HARO STRAIT	5	5	5	4
802	SOUTHERN HARO STRAIT	5	5	5	4
901	SOUTHERN ROSARIO STRAIT	5	5	5	5
902	CENTRAL ROSARIO STRAIT	4	5	4	4
903	NORTHERN ROSARIO STRAIT	4	4	4	3
1001	PRESIDENT CHANNEL	4	5	4	4
1002	NORTHERN AREAS	4	5	4	3
1101	SPEIDEN CHANNEL	3	4	3	2
1102	NORTHERN SAN JUAN CHANNEL	4	5	4	3
1103	SOUTHERN SAN JUAN CHANNEL	5	5	5	4
1104	WASP PASS	5	5	5	4
1105	UPRIGHT CHANNEL	5	5	4	4
1106	HARNEY CHANNEL	4	5	4	3
1107	OBSTRUCTION PASS	2	2	2	2
1108	THATCHER PASS	4	5	4	3
1201	MOSQUITO/ROCHE COMPLEX	3	4	3	3
1202	FRIDAY HARBOR	3	3	3	2
1203	GRIFFIN BAY	4	5	4	4
1205	FISHERMAN BAY	1	1	1	1
1206	SWIFT/SHOAL BAYS	1	1	1	1
1207	DEER HARBOR	2	2	2	2
1208	WEST SOUND	3	4	3	2
1209	EAST SOUND	4	5	4	4
1210	LOPEZ SOUND	5	5	5	4
1401	SKAGIT BAY	5	5	5	5
1402	PENN COVE/CRESCENT HARBOR	4	4	3	3
1403	SARATOGA PASSAGE	3	4	3	3
1404	HOLMES HARBOR	2	3	2	2
1405	PORT SUSAN	3	4	3	3
1406	POSSESSION SOUND	4	5	4	3
1501	HOOD CANAL ENTRANCE	4	5	4	3
1502	PORT LUDLOW	4	4	4	3
1503	PORT GAMBLE	1	1	1	1
1504	NORTHERN HOOD CANAL	1	1	1	1
1505	CENTRAL HOOD CANAL	4	4	3	3
1506	DABOB BAY	4	5	4	3
1507	QUILCENE BAY	3	3	2	2

Table 10. Marine and Estuarine Recreation Vulnerability Scores (RVS)

SUBREGION		SEASON SP	SU	FA	WI
1508	SOUTHCENTRAL HOOD CANAL	4	5	4	3
1509	ANNAS BAY	4	4	4	3
1510	GREAT BEND	3	4	3	3
1601	N. PUGET SOUND	4	4	3	3
1602	N. CENTRAL PUGET SOUND	4	5	4	4
1603	CENTRAL PUGET SOUND	5	5	4	4
1604	ELLIOT BAY	4	5	4	3
1605	EAST PASSAGE	4	5	4	3
1606	COLVOS PASSAGE	3	3	2	2
1607	COMMENCEMENT BAY	2	2	2	2
1608	NARROWS	3	3	3	2
1609	STEILACOOM	3	3	3	2
1610	NISQUALLY	5	5	5	4
1611	TREBLE-JOHNSON	3	3	2	2
1612	HALE PASSAGE	2	2	2	2
1613	CARR INLET	4	5	4	4
1614	PITT PASSAGE	2	2	2	2
1615	DRAYTON HARBOR	2	2	2	2
1616	CASE INLET	4	4	3	3
1617	HENDERSON INLET	2	2	2	1
1618	DANA PASSAGE	2	2	2	2
1619	BUDD INLET	3	4	3	3
1620	ELD INLET	2	3	2	2
1621	TOTTEN INLET	1	1	1	1
1622	PICKERING PASSAGE	3	4	3	2
1623	PEALE PASSAGE	3	3	3	2
1624	SQUAXIN	2	2	2	1
1625	SKOOKUM INLET	1	1	1	1
1626	HAMMERSLEY INLET	2	2	2	2
1627	OAKLAND BAY	2	2	1	1
1628	AGATE PASSAGE	2	2	2	2
1629	LIBERTY BAY	2	3	2	2
1630	PORT ORCHARD	3	3	3	2
1631	SINCLAIR INLET	2	3	2	2
1632	DYES INLET	3	3	2	2
1633	RICH PASSAGE	3	4	3	3
1634	QUARTERMASTER HARBOR	2	3	2	2
1635	DALCO PASSAGE	4	5	4	3
1636	BALCH PASS	1	1	1	1

[Statutory Authority: Chapter 90.48 RCW. 92-10-005 (Order 91-13), § 173-183-470, filed 4/23/92, effective 5/24/92.]

COMPENSATION SCHEDULE FOR SPILLS INTO THE COLUMBIA RIVER ESTUARY

WAC 173-183-500 Vulnerability of the Columbia River estuary environment to oil spills. (1) The purpose of this section is to describe the method of ranking vulnerability of the Columbia River estuary environment to oil spills for purposes of assessing damages using the compensation schedule.

(2) The Columbia River estuary has been distinguished from other estuarine waters of the state because it resides within the jurisdiction of two states, Washington and Oregon.

(3) For purposes of RCW 90.48.366, estuarine waters of the Columbia River are divided into one kilometer square cells. Bird, fish, mammal, invertebrate, habitat, and human use resource sensitivity have been evaluated for each cell by season. Seasonal resource sensitivities are ranked for each cell on a 1 to 5 scale where 5 represents the greatest sensitivity and 1 represents the least sensitivity as designated on the maps attached as Appendix 6 of this chapter.

(4) A vulnerability score (VS) shall be calculated at the time of a spill for each cell and for the most sensitive season impacted by the spill. The VS rates the vulnerability of public resources to the spilled oil.

(a) VS for a particular cell is determined by summing the sensitivity scores assigned to each cell for bird, fish, mammal, invertebrate, habitat, and human use resources as follows:

$$VS_{ij} = BSS_{ij} + FSS_{ij} + MSS_{ij} + ISS_{ij} + HSS_{ij} + HUS_{ij}$$

where VS_{ij}= spill vulnerability score for a particular call and season
BSS= bird sensitivity score (from Appendix 6 of this chapter)
FSS= fish sensitivity score (from Appendix 6 of this chapter)
MSS= mammal sensitivity score (from Appendix 6 of this chapter)
ISS= invertebrate sensitivity score (from Appendix 6 of this chapter)
HSS= habitat sensitivity score (from Appendix 6 of this chapter)
HUS= human use sensitivity score (from Appendix 6 of this chapter)
i= the cell under consideration
j= the most sensitive season impacted; fall, winter, spring, or summer

(b) The raw vulnerability score for a spill (SVS) is determined by calculating the average of the vulnerability scores for the cells exposed to the spill as follows:

$$SVS_j = (VS_1 + VS_2 + \ldots + VS_x)/x$$

where VS_i= vulnerability score for cell i (from subsection (4)(a) of this section),
x= number of cells exposed to the spill, and

(5) The final SVS score is found by rounding the raw SVS score calculated from the formula in subsection (4) of this section to the nearest 0.01 as follows: Decimals less than 0.005 shall be rounded down and decimals equal to or greater than 0.005 shall be rounded up.

[Statutory Authority: Chapter 90.48 RCW. 92-10-005 (Order 91-13), § 173-183-500, filed 4/23/92, effective 5/24/92.]

COMPENSATION SCHEDULE FOR SPILLS INTO FRESHWATER STREAMS, RIVERS, AND LAKES

WAC 173-183-600 Vulnerability of freshwater stream, river, and lake environments to oil spills. (1) The purpose of this section is to describe the method of ranking the vulnerability of state freshwater stream, river, and lake environments, and portions thereof, to oil spills for purposes of applying the compensation schedule.

(2) Vulnerability of freshwater stream, river, and lake environments to oil spills is based on water type classifications and a habitat index.

(3) For each oil spill into a freshwater stream, river, or lake, a spill vulnerability score (SVS) is calculated. The SVS rates the vulnerability of public resources to spilled oil based on the spilled oil's propensity to cause acute toxicity, mechanical injury, and to persist in the environment. SVS is determined by multiplying the freshwater vulnerability score,

which is based on the water type classification, by the habitat index score as described by the following formula:

Raw Spill Vulnerability Score (SVS)= FVS* HI.

where FVS= Freshwater vulnerability score (from WAC 173-183-610), and
HI= Habitat index (from WAC 173-183-620).

(4) The final SVS score is found by rounding the raw SVS score calculated from the formula in subsection (3) of this section to the nearest 0.01 as follows: Decimals less than 0.005 shall be rounded down and decimals equal to or greater than 0.005 shall be rounded up.

[Statutory Authority: Chapter 90.48 RCW. 92-10-005 (Order 91-13), § 173-183-600, filed 4/23/92, effective 5/24/92.]

WAC 173-183-610 Freshwater vulnerability index. (1) For purposes of this chapter, freshwater streams, rivers, lakes, and portions thereof, are classified into 5 water types based on the identification system set forth in WAC 222-16-030 which is incorporated by reference.

(a) "Type 1 Water" means all waters, within their ordinary high-water mark, as inventoried as "shorelines of the state" under chapter 90.58 RCW.

(b) "Type 2 Water" shall mean segments of natural waters which are not classified as Type 1 Water and have a high use and are important from a water quality standpoint for:

(i) Domestic water supplies;

(ii) Public recreation;

(iii) Fish spawning, rearing, or migration or wildlife uses; or

(iv) Are highly significant to protect water quality.

(c) "Type 3 Water" shall mean segments of natural waters which are not classified as Type 1 or 2 Water and have a moderate to slight use and are moderately important from a water quality standpoint for:

(i) Domestic water supplies;

(ii) Public recreation;

(iii) Fish spawning, rearing, or migration or wildlife uses; or

(iv) Are highly significant to protect water quality.

(d) "Type 4 Water" shall mean segments of natural waters which are not classified as Type 1, 2, or 3. Their significance lies in their influence of water quality downstream in Type 1, 2, or 3 Waters. These may be perennial or intermittent.

(e) "Type 5 Water" means all other waters, in natural water courses, including streams with or without a well-defined channel, areas of perennial or intermittent seepage, ponds, and natural sinks. Drainage ways having short periods of runoff are considered to be Type 5 Waters.

(3) The vulnerability of freshwater environments is based on the stream typing system established in WAC 222-16-030 incorporated by reference. The rating of biological and recreational resources ranges from 1 to 5 where 5 represents the most sensitive category and 1 represents the least sensitive category as follows:

TABLE 11. Freshwater Vulnerability Score (FVS).

FVS	QUALIFICATION
5	"Type 1 waters"
4	"Type 2 waters"
3	"Type 3 waters"
2	"Type 4 waters"
1	"Type 5 waters"

[Statutory Authority: Chapter 90.48 RCW. 92-10-005 (Order 91-13), § 173-183-610, filed 4/23/92, effective 5/24/92.]

WAC 173-183-620 Habitat index. (1) Most state freshwaters vary to some degree from the natural condition as increased activities within individual watersheds have decreased stream, river, and/or lake habitat quality. In order to account for that degradation prior to assessing damages using the compensation schedule, a habitat index (HI) is calculated to represent existing stream conditions prior to the oil spill.

(2) For each stream, river, or lake impacted by an oil spill where the preassessment screening committee determines that the compensation schedule shall be used, a habitat index (HI) shall be calculated following an oil spill using the following methodology. The HI measures the amount of stream degradation from natural conditions and shall be calculated using the following formula:

$$\text{Habitat Index (HI)} = [(P_1+P_2+P_3+P_4+P_5+P_6) \div N_p] \times f_1 \times f_2 \times f_3$$

where: P_1= barriers to natural fish movement
P_2= urbanization
P_3= condition of riparian vegetation
P_4= condition of floodplain
P_5= land use of watershed
P_6= flow alteration
N_p= number of P parameters used to calculate HI
f_1= channel modifications
f_2= impoundment
f_3= water quality

(3) The RDA committee shall determine which of the habitat quality parameters described in subsection (2) of this section are applicable to the particular spill under consideration. If a parameter is not applicable to the spill under consideration, the parameter shall not be included in the formula provided in subsection (2) of this section.

(4) Habitat quality parameters (P).

(a) Barriers to natural fish movement (P_1). Barriers, to some degree, limit the free passage of fish upstream thus limiting the ability of streams to recover. The scoring of this parameter is based on the influence of barriers in the natural dispersal of fish populations as follows:

Table 12. Scoring of Barriers to Natural Fish Movement (P_1).

RATING	QUALIFICATION
10	No manmade obstructions to free upstream passage of fish
8	No dams or other structures causing a vertical drop of more than 1 foot during low flow
5	No dams or other structures causing a vertical drop of more than 3 foot during low flow

RATING	QUALIFICATION
3	No dams or other structures causing a vertical drop of more than 10 foot during low flow
0	One to several dams or other structures each causing a drop of more than 10 feet during low flow

(b) Urbanization (P_2). Urban development has historically had negative habitat effects on freshwater ecosystems. The percent of urban development in a watershed directly influences siltation, riparian abuse, and water quality deterioration. The scoring of this parameter is based on the percent of urbanization in the stream watershed.

Table 13. Scoring of Urbanization (P_2).

RATING	QUALIFICATION
10	Less than 5 percent of the watershed in urban development
8	Five to 10 percent of the watershed in urban development
5	Ten to 40 percent of the watershed in urban development
3	Forty to 70 percent of the watershed in urban development
0	Seventy to 100 percent of the watershed in urban development

(c) Condition of riparian vegetation (P_3). Riparian vegetation is important to seventy percent of the animal and bird species in Washington for some part of their life cycle. It also exerts thermal regulatory and thermal controls for the aquatic system. The scoring of this parameter is based on the percent of banks that are protected by effective riparian vegetation.

Table 14. Scoring of Condition of Riparian Vegetation (P_3).

RATING	QUALIFICATION
10	Ninety to 100 percent of the banks are protected by appropriate perennial vegetation
8	Sixty to 90 percent of the banks are protected by appropriate perennial vegetation
5	Forty to 60 percent of the banks are protected by appropriate perennial vegetation
3	Ten to 40 percent of the banks are protected by appropriate perennial vegetation
0	Zero to 10 percent of the banks are protected by appropriate perennial vegetation

(d) Condition of the floodplain (P_4). The condition of the floodplain forecasts the amount of sedimentation and erosion in the watershed and as such is a primary predictor of stream degradation. The rating of this parameter is as follows:

Table 15. Scoring of the Condition of the Floodplain (P_4).

RATING	QUALIFICATION
10	Little or no evidence of active or recent erosion of the floodplain during floods
5	All segments show evidence of occasional erosion of the floodplain. Stream channel essentially intact
0	Floodplain severely eroded and degraded, stream channel poorly defined with much lateral erosion and much reduced flow capacity

(e) Land use of the watershed (P_5). Land use practices exert a great deal of influence on the quality of the aquatic habitat. The rating of this parameter is as follows:

Table 16. Scoring of Land Use of the Watershed (P_5).

RATING	QUALIFICATION
10	More than 80 percent of the watershed protected by timber, improved pasture, terraces, or other conservation practices
8	Sixty to 80 percent of the watershed protected by timber, improved pasture, terraces, or other conservation practices
5	Forty to 60 percent of the watershed protected by timber, improved pasture, terraces, or other conservation practices
3	Twenty to 40 percent of the watershed protected by timber, improved pasture, terraces, or other conservation practices
1	Zero to 20 percent of the watershed protected by timber, improved pasture, terraces, or other conservation practices

(f) Flow alteration (P_6). Alteration of the natural flow regime can frequently alter habitat conditions that are necessary for certain behavioral and ecological needs of species. The rating of this parameter is as follows:

Table 17. Scoring for Flow Alteration (P_6).

RATING	QUALIFICATION
10	Less than 1 percent of the watershed controlled by impoundments and/or less than 50 percent of the watershed controlled by farm ponds
8	One to 30 percent of the watershed controlled by impoundments and/or less than 50 percent of the watershed controlled by farm ponds
5	Thirty to 60 percent of the watershed controlled by impoundments and/or less than 50 percent of the watershed controlled by farm ponds
3	Sixty to 95 percent of the watershed controlled by impoundments and/or less than 50 percent of the watershed controlled by farm ponds
0	Ninety-five to 100 percent of the watershed controlled by impoundments and/or less than 50 percent of the watershed controlled by farm ponds

(5) Habitat alteration functions (F). Each habitat alteration function has the power to reduce the habitat quality rating, dependent on the type and extent of alteration. Functions are expressed on a scale of 0 to 1.0.

(a) Channel modification (F_1). Channel modification can have a dramatic effect of the ability of a stream to provide for a diversity of habitats. This parameter is rated as follows:

Channel Modification (F_1)= 1.0 - (SM*FR)

where F_1= Channel modification rate
SM= Percent stream reach modified, expressed as a decimal
FR= Percent fish reduction, expressed as a decimal

Table 18. Scoring for Percent Fish Reduction (FR).

CHANNEL MODIFICATION	% FISH REDUCTION
Clearing, Snagging	25
Channel realignment	80
Channel paving	95

(b) Water quality (F_2). Water quality exerts a variety of detrimental and/or beneficial on the aquatic ecosystem. This parameter is rated as follows:

Table 19. Scoring for Water Quality (F_2).

RATING	QUALIFICATION
1.0	Stream water unpolluted. No pollutants detected by standard methods
0.8	Occasional above normal levels of one or more water pollutants usually present, but detectable only by analysis
0.5	Occasional visible signs of oversupply of nutrients or other pollutants detected by analysis
0.4	Occasional fish kills averaging about every 4 years or more
0.2	Occasional fish kills occurring more often than every 4 years
0.0	Grossly polluted waters with fish kills occurring annually or more frequently

(c) Streambed condition (F_3). The condition of the substrate habitat can be altered in such a way as to reduce the effective habitat available to the aquatic community as a whole. This parameter is ranked as follows:

Table 20. Scoring of Streambed Condition.

RATING	QUALIFICATION
1.0	No apparent unstable material in channel with substrate of bedrock, boulders, rubble, gravel or firm alluvium
0.9	Traces of unstabilized silt, sand, or gravel in quiet areas or large pools with firm substrate
0.8	Quiet areas covered with unstable materials, deep pools restricted to areas of greatest scour
0.7	Pools shallow, filled with silt, sand or gravel, riffles contain noticeable silt deposits
0.5	Streambed completely covered by varying thicknesses of transported material such as silt, sand and gravel
0.0	Stream channel nearly or completely filled with unconsolidated, transported material; no surface flow except during floods

[Statutory Authority: Chapter 90.48 RCW. 92-10-005 (Order 91-13), § 173-183-620, filed 4/23/92, effective 5/24/92.]

Reviser's note: The brackets and enclosed material in the text of the above section occurred in the copy filed by the agency.

COMPENSATION SCHEDULE FOR SPILLS INTO FRESHWATER WETLANDS

WAC 173-183-700 Vulnerability of freshwater wetland environments to oil spills. (1) The purpose of this section is to describe the method of ranking the vulnerability of freshwater wetland environments to oil spills for purposes of assessing damages by applying the compensation schedule.

(2) Vulnerability of freshwater wetland environments to oil spills is based on a wetlands classification which rates the vulnerability of a wetland to spilled oil. Wetland environments are classified into five categories which represent the sensitivity of habitat, plants, animals, and recreational use to oil spills. For purposes of this chapter, the wetlands vulnerability score shall be equal to the spill vulnerability score as follows:

Spill Vulnerability Score (SVS)= WVS

where WVS= wetlands vulnerability score (from WAC 173-183-710).

[Statutory Authority: Chapter 90.48 RCW. 92-10-005 (Order 91-13), § 173-183-700, filed 4/23/92, effective 5/24/92.]

WAC 173-183-710 Wetlands vulnerability classification. (1) Freshwater wetland environments and portions thereof, are classified into 4 types based on the identification system set forth below.

(a) Category I wetlands. The following types of wetlands are classed as category I wetlands:

(i) Documented habitat for threatened or endangered plant, animal, or fish species recognized by federal or state agencies; or

(ii) Documented Natural Heritage wetland sites or high quality native wetland communities which qualify as Natural Heritage wetland sites; or

(iii) Documented habitat of regional (Pacific Coast) or national significance for migratory birds; or

(iv) Regionally rare wetland communities; or

(v) Wetlands with irreplaceable ecological functions; or

(vi) Documented wetlands of local significance.

(b) Category II wetlands. The following types of wetlands are classed as category II wetlands:

(i) Documented habitat recognized by federal and state agencies for sensitive plant, animal, or fish species; or

(ii) Documented priority habitats and species recognized by state agencies; or

(iii) Wetlands with significant functions which may not be adequately replicated through creation or restoration; or

(iv) Wetlands with significant habitat value; or

(v) Documented wetlands of local significance.

(c) Category III wetlands. The following types of wetlands are classed as category III when they satisfy no category I, II, or IV criteria.

(d) Category IV wetlands. The following types of wetlands are classed as category IV wetlands:

(i) Wetlands less than one acre in size and hydrologically isolated and comprised of one vegetated class that is dominated (more than eighty percent areal cover) by one species from the list in Table 21; or

(ii) Wetlands less than two acres and hydrologically isolated with one vegetative class and more than ninety percent of the areal cover is any combination of species from the list in Table 22.

Table 21. List of invasive/exotic plant species for rating Category IV wetlands.

Common name	Scientific name
Soft Rush	*Juncus effusus*
Reed	*Phragmites communis*
Buttercup	*Ranunculus repens*
Reed Canary Grass	*Phalaris arundinaceae*
Purple loosestrife	*Lythrum salicarla*

Table 21. List of invasive/exotic plant species for rating Category IV wetlands.

Common name	Scientific name
Townsend's cordgrass	*Spartina townsendii*
Non-native blackberry	*Rubus discolor, laciniatus, vestitus, macrophyllus*
Velvet grass	*Holyus lanarus, mollis*
Fescue	*Festuca arundinaceae, pratensis*
Quackgrass	*Agropyron repena*
Meadow foxtail	*Alopercurus pratensis, aequalis*
Orchardgrass	*Dactylis glomerata*
Ryegrass	*Loliom parenne, multiflorum, temulentum*
Timothy	*Phleum pratense*
Bluegrass	*Poa compressa, palustris, pratensia*
Bromes	*Bromus tectorum, rigidus, brizaformis, geoalinus, japonicus, mollis, commutatus, inarmis, cractus*
Sandbur	*Cauchrus longispinus*
Crab Grass	*Digitarisa sanguinalis*
Barnyard grass	*Echinochloa crusgalli*
Green Bristlegrass	*Setaria viridius*
Foxtail Barley	*Hordeum jubatum*
Dogtail	*Cynosurus cristatus, achinatus*
Russian Thistle	*Salsola kali*
Knotweeds	*Polygonium aviculare, concoloculus, cuspidatum, lapathifolium, persicaria*
Tumblemustards	*Sisymbrium altissimum, loesclii, officinale*
Scotch broom	*Cytisus scoparius*
Sweet clover	*Melilotus alba, officinalis*
Bird's foot trefoil	*Lotus corniculatus*
Alfalfa	*Medicago sativa*
Clover	*Trifolium dubium, pratense, repens, aryense, subterraneum, hybridum*
Spurge	*Euphorbia pepius, caula*
St. John's wort	*Hyparicum parfoliatum*
Teasel	*Dipsacus sylvestris*
Pineapple weed	*Marricaria matricartioides*
Tansy	*Tanacetum vulgare*
Thistles	*Cirsium vulgare, arvense*
Burdock	*Arctium minus*
Knapweeds	*Centauras solstitialis, repens, cyanus, maculosa*
Cultivated species; wheat, corn, barley, triticum, rye	

Table 22. List of native species for rating of Category IV wetlands.

Common name	Scientific name
Hard hack	*Spirea douglasii*
Cattail	*Typha latifolia*
Soft rush	*Juncus effusus*

(2) Freshwater wetland environment vulnerability score (WVS). The vulnerability of freshwater wetland environments is based on the stream typing system established in WAC 222-16-030 incorporated by reference. The rating of the freshwater wetland environment vulnerability ranges from 1 to 5, where 5 represents the most sensitive category and 1 represents the least sensitive category as follows:

Table 23. Freshwater Wetlands Vulnerability Score (WVS).

WVS	QUALIFICATION
5	Category I wetlands
4	Category II wetlands
3	Category III wetlands
1	Category IV wetlands

[Statutory Authority: Chapter 90.48 RCW. 92-10-005 (Order 91-13), § 173-183-710, filed 4/23/92, effective 5/24/92.]

CALCULATION OF DAMAGES USING THE COMPENSATION SCHEDULE

WAC 173-183-800 Calculation of damages using the compensation schedule general. The purpose of WAC 173-183-800 to 173-183-850 are to describe:

(1) The responsibilities of the OSC and RDA committee chair in applying the compensation schedule; and

(2) The procedures for determining public resource damages using the compensation schedule.

[Statutory Authority: Chapter 90.48 RCW. 92-10-005 (Order 91-13), § 173-183-800, filed 4/23/92, effective 5/24/92.]

WAC 173-183-810 On-scene coordinator responsibilities. (1) The OSC or department responder, or his or her designee, shall make the following determinations:

(a) Quantity and type of oil spilled;

(b) Extent and location of the spill; and

(c) The amount of oil cleaned up on a daily basis, and in total.

(2) The potentially liable party (PLP) may hire an independent expert to determine the volume of oil spilled and cleaned up, including the volume cleaned up within the first six hours after spill initiation. The volume determinations made by the independent expert shall be used in calculations of damages under the compensation schedule if the independent expert selected is acceptable to both the PLP and the department. Determinations by the mutually agreed upon independent expert of the quantity of oil spilled and cleaned up shall be provided to the RDA committee chair within sixty days of the spill under consideration.

(3) The OSC or department responder shall provide the information enumerated in subsection (1) of this section to the RDA committee chair in a timely manner.

[Statutory Authority: Chapter 90.48 RCW. 92-10-005 (Order 91-13), § 173-183-810, filed 4/23/92, effective 5/24/92.]

WAC 173-183-820 RDA committee chair responsibilities. (1) The RDA committee chair shall, in consultation with the OSC and RDA committee, determine the following:

(a) For spills into marine or estuarine environments excluding the Columbia River estuary:

(i) The acute toxicity, mechanical injury and persistence oil class rankings for the spilled oil as provided in WAC 173-183-360;

(ii) Subregion(s) exposed to the spilled oil;

(iii) Habitat types exposed to the spilled oil as classified in WAC 173-183-410 for spills of 1,000 gallons or more;

(iv) Percent coverage of each habitat type within the area of spill exposure for spills of 1,000 gallons or more;

(v) Percent coverage of habitat types present within the subregion(s) exposed to spilled oil for spills of less than 1,000 gallons.

(vi) A spill's habitat vulnerability scores (HVS) for acute toxicity, mechanical injury, and persistence as determined by the procedures outlined in WAC 173-183-400; and

(vii) The spill vulnerability scores (SVS_{AT}, SVS_{MI}, SVS_{PER}) for the most vulnerable season affected by the spill using the formula provided in WAC 173-183-400.

(b) For spills in the estuarine waters of the Columbia River:

(i) The acute toxicity, mechanical injury, and persistence oil class rankings for the spilled oil as provided in WAC 173-183-360;

(ii) The cell(s) exposed to the spilled oil; and

(iii) The spill vulnerability score (SVS) for the most vulnerable season affected by the spilled oil using the procedures provided in WAC 173-183-500.

(c) For spills in freshwater streams, rivers, and lakes:

(i) The acute toxicity, mechanical injury and persistence oil class rankings for the spilled oil as provided in WAC 173-183-360;

(ii) Freshwater vulnerability score as described in WAC 173-183-610;

(iii) Freshwater habitat index as described in WAC 173-183-620; and

(iv) Spill vulnerability score (SVS) as outlined in WAC 173-183-600 for each stream, river, and/or lake environment exposed to the spill; and

(d) For spills in freshwater wetlands:

(i) The acute toxicity, mechanical injury, and persistence oil class rankings for the spilled oil as provided in WAC 173-183-360;

(ii) Freshwater wetland vulnerability score as described in WAC 173-183-710;

(iii) Spill vulnerability score (SVS) as outlined in WAC 173-183-700 for each wetland exposed to the spill.

(2) For spills that enter more than one environment, the RDA committee chair shall, in consultation with the OSC and RDA committee, make the determinations enumerated under subsection (1)(a) through (d) of this section.

[Statutory Authority: Chapter 90.48 RCW. 92-10-005 (Order 91-13), § 173-183-820, filed 4/23/92, effective 5/24/92.]

WAC 173-183-830 Calculation of damages for spills into marine and estuarine waters, except the Columbia River estuary. (1) The formula provided in subsection (2) of this section shall be used to determine damages liability for spills into marine and estuarine waters, except the estuarine waters of Columbia River. The value of the variables used in the formula shall be determined by:

(a) The OSC as enumerated in WAC 173-183-810(1);

(b) The mutually agreed upon independent expert, if applicable, as described in WAC 173-183-810(2); and

(c) The RDA committee chair as enumerated in WAC 173-183-820 (1)(a).

(2) In making the determination of percent-coverage of habitat types, the RDA committee chair may assume that the habitat-type visible at low tide extends out to the 20 meter depth contour.

(3) Damages liability shall be calculated using the following formula:

Damages ($)=
gallons spilled* 0.1* $[(OIL_{AT}*SVS_{AT,j})+(OIL_{MI}*SVS_{MI,j})+(OIL_{PER}*SVS_{PER,j})]$

where:
gallons spilled= the number of gallons of oil spilled as determined by the procedures outlined in WAC 173-183-810;
$SVS_{i,j}$ = spill vulnerability score (from WAC 173-183-400(3));
OIL_{AT} = Acute Toxicity Score for Oil (from WAC 173-183-360);
OIL_{MI} = Mechanical Injury Score for Oil (from WAC 173-183-360); and
OIL_{PER} = Persistence Score for Oil (from WAC 173-183-360).
i= acute toxicity, mechanical injury and persistence effect of oil
j= the most sensitive season affected by the spill
0.1= multiplier to adjust the damages calculated to the $1-50 per gallon range.

Formula results shall be rounded to the nearest 0.01 to determine damages liability as follows: Decimals less than 0.005 shall be rounded down, and decimals equal to or greater than 0.005 shall be rounded up.

[Statutory Authority: Chapter 90.48 RCW. 92-10-005 (Order 91-13), § 173-183-830, filed 4/23/92, effective 5/24/92.]

Reviser's note: The brackets and enclosed material in the text of the above section occurred in the copy filed by the agency.

WAC 173-183-840 Calculation of damages for spills into the Columbia River estuary. (1) The formula provided in subsection (2) of this section shall be used to determine damages liability for spills into the estuarine waters of Columbia River. The value of the variables used in the formula shall be determined by:

(a) The OSC as enumerated in WAC 173-183-810(1);

(b) The mutually agreed upon independent expert, if applicable, as described in WAC 173-183-810(2); and

(c) The RDA committee chair as enumerated in WAC 173-183-820 (1)(b).

(2) Damages liability shall be calculated using the following formula:

Damages ($)=
gallons spilled* 0.2* SVS_j* $(OIL_{AT}+OIL_{MI}+OIL_{PER})$

where:
gallons spilled= the number of gallons of oil spilled as determined by procedures outlined in WAC 173-183-810
SVS_j= spill vulnerability score (from WAC 173-183-500(3));
j= the most sensitive season affected by the spill
OIL_{AT}= Acute Toxicity Score for Oil (from WAC 173-183-360);
OIL_{MI}= Mechanical Injury Score for Oil (from WAC 173-183-360); and
OIL_{PER}= Persistence Score for Oil (from WAC 173-183-360).
0.2= multiplier to adjust the damages calculated to the $1-50 per gallon range.

Formula results shall be rounded to the nearest 0.01 to determine damages liability as follows: Decimals less than 0.005 shall be rounded down, and decimals equal to or greater than 0.005 shall be rounded up.

[Statutory Authority: Chapter 90.48 RCW. 92-10-005 (Order 91-13), § 173-183-840, filed 4/23/92, effective 5/24/92.]

WAC 173-183-850 Calculation of damages for spills in freshwater streams, rivers, and lakes. (1) The formula provided in subsection (2) of this section shall be used to determine damages liability for spills into freshwater streams, rivers, and lakes. The value of the variables used in the formula shall be determined by:

(a) The OSC as enumerated in WAC 173-183-810(1);

(b) The mutually agreed upon independent expert, if applicable, as described in WAC 173-183-810(2); and

(c) The RDA committee chair as enumerated in WAC 173-183-820 (1)(c).

(2) Damages liability shall be calculated using the following formula:

Damages ($)=
gallons spilled* 0.08* SVS* (OIL_{AT}+ OIL_{MI}+ OIL_{PER})

where: gallons spilled= the number of gallons of oil spilled as determined by the procedures outlined in WAC 173-183-810;
SVS= Spill vulnerability score [from WAC 173-183-600(3)];
OIL_{AT} = Acute Toxicity Score for Oil [from WAC 173-183-360];
OIL_{MI} = Mechanical Injury Score for Oil [from WAC 173-183-360]; and
OIL_{PER} = Persistence Score for Oil [from WAC 173-183-360].
0.08= multiplier to adjust damages calculated to the $1-50 per gallon range;

Formula results shall be rounded to the nearest 0.01 to determine damages liability as follows: Decimals less than 0.005 shall be rounded down, and decimals equal to or greater than 0.005 shall be rounded up.

[Statutory Authority: Chapter 90.48 RCW. 92-10-005 (Order 91-13), § 173-183-850, filed 4/23/92, effective 5/24/92.]

Reviser's note: The brackets and enclosed material in the text of the above section occurred in the copy filed by the agency.

WAC 173-183-860 Calculation of damages for spills into freshwater wetlands. (1) The formula provided in subsection (2) of this section shall be used to determine damages liability for spills into freshwater wetlands. The value of the variables used in the formula shall be determined by:

(a) The OSC as enumerated in WAC 173-183-810(1);

(b) The mutually agreed upon independent expert, if applicable, as described in WAC 173-183-810(2); and

(c) the RDA committee chair as enumerated in WAC 173-183-820 (1)(d).

(2) Damages liability shall be calculated using the following formula:

Damages ($)=
gallons spilled* 0.81* SVS* (OIL_{AT}+ OIL_{MI}+ OIL_{PER})

where: gallons spilled= the number of gallons of oil spilled as determined by procedures outlined in WAC 173-183-810;
SVS= Spill vulnerability score [from WAC 173-183-700(3)];
OIL_{AT}= Acute Toxicity Score for Oil [from WAC 173-183-360];
OIL_{MI}= Mechanical Injury Score for Oil [from WAC 173-183-360]; and
OIL_{PER}= Persistence Score for Oil [from WAC 173-183-360].
0.81= multiplier to adjust damages calculated to the $1-50 per gallon range;

Formula results shall be rounded to the nearest 0.01 to determine damages liability as follows: Decimals less than 0.005 shall be rounded down, and decimals equal to or greater than 0.005 shall be rounded up.

[Statutory Authority: Chapter 90.48 RCW. 92-10-005 (Order 91-13), § 173-183-860, filed 4/23/92, effective 5/24/92.]

Reviser's note: The brackets and enclosed material in the text of the above section occurred in the copy filed by the agency.

WAC 173-183-865 Calculation of damages for spills entering more than one type of receiving environment. For spills that enter more than one type of receiving environment, as classified in WAC 173-183-400, 173-183-500, 173-183-600, and 173-183-700, damages liability shall be determined as follows:

(1) Damages shall be calculated using the procedures enumerated in WAC 173-183-800 through 173-183-890 for each of the receiving environment types exposed to spilled oil;

(2) Total damages liability shall be equal to the greatest of the damages calculated for the receiving environment types exposed to spilled oil as determined in subsection (1) of this section.

[Statutory Authority: Chapter 90.48 RCW. 92-10-005 (Order 91-13), § 173-183-865, filed 4/23/92, effective 5/24/92.]

WAC 173-183-870 Modification of damages based on actions taken by the PLP. (1) Damages calculated under WAC 173-183-830 through 173-183-860 may be reduced by the amounts specified in subsections (2) through (5) of this section, as determined by the RDA committee, in the following cases:

(a) Where the potentially liable party takes an action that results in no spill exposure and no injury to the following special features: Seal and sea lion haulouts, public recreational areas, smelt, sand lance, and herring spawning areas, salmon concentration areas, hardshell and softshell clam beds, and seabird breeding colonies;

(b) Where the potentially liable party takes an action that restores, rehabilitates, or enhances resources injured by the spill; and

(c) Where the potentially liable party immediately booms spilled oil that has not come into contact with the shore, in areas where water depth is greater than twenty meters, and immediately removes the spilled oil that has been contained in booming.

(2) When the conditions specified under subsection (1)(a) of this section are met, compensation shall be reduced by the amount that the special feature that was protected con-

tributed to the amount of damages calculated under WAC 173-183-830 through 173-183-860. Decisions on how much the protected special feature contributed to the amount of damages calculated under the compensation schedule shall be made by the RDA committee.

(3) When conditions specified under subsection (1)(b) of this section are met, amount of damages calculated under WAC 173-183-830 through 173-183-860 may be reduced. Decisions on reduction of damages shall be made by the RDA committee.

(4) When the conditions specified under subsection (1)(c) of this section are met, the damages calculated under WAC 173-183-830 through 173-183-860 shall be reduced as described by the following steps:

(a) Two separate damages calculations shall be made using the applicable damage liability formula(s) provided in WAC 173-183-830 through 173-183-860. The number of gallons used in the first formula shall be the number of gallons immediately removed from the receiving environment as described in subsection (1)(c) of this section. The number of gallons used the second formula shall be the number of gallons spilled but not immediately removed from the receiving environment. The values of all other formula variables shall be as defined for the applicable formulas in WAC 173-183-830 through 173-183-860, except as described in subsection (4)(b) of this section;

(b) The values of the mechanical injury (OIL_{MI}) and persistence (OIL_{PER}) scores for oils shall be reduced by ten percent in the first formula; and

(c) Damages derived from the first and second formulas shall be added together to calculate the reduced damages liability.

(5) In no case shall the modifications to compensation enumerated in subsections (1) through (4) of this section result in a reduction of damages to less than one dollar per gallon of oil spilled.

[Statutory Authority: Chapter 90.48 RCW. 92-10-005 (Order 91-13), § 173-183-870, filed 4/23/92, effective 5/24/92.]

WAC 173-183-880 Damage claim. (1) The department shall provide documentation to the liable party that details the information and calculations that were used to assess damages under the compensation schedule. This documentation shall be provided to the liable party along with the damages liability claim.

(2) The liable party shall pay the full amount specified in the damages liability claim to the department within thirty days of receipt.

[Statutory Authority: Chapter 90.48 RCW. 92-10-005 (Order 91-13), § 173-183-880, filed 4/23/92, effective 5/24/92.]

WAC 173-183-890 Substitution of damages. The department may negotiate with a potentially liable party to perform restoration and enhancement projects or studies which may substitute for all or part of the damages determined through application of the procedures in WAC 173-183-300 through 173-183-870.

[Statutory Authority: Chapter 90.48 RCW. 92-10-005 (Order 91-13), § 173-183-890, filed 4/23/92, effective 5/24/92.]

WAC 173-183-900 Annual report. The department shall submit an annual report to the appropriate standing committees of the legislature that addresses each spill for which the RDA committee was convened. The following information shall be included in the report for each spill addressed: The outcome of the preassessment screening, and compensation claims imposed or damage assessment studies conducted, and the revenues to and expenditures from the coastal protection fund.

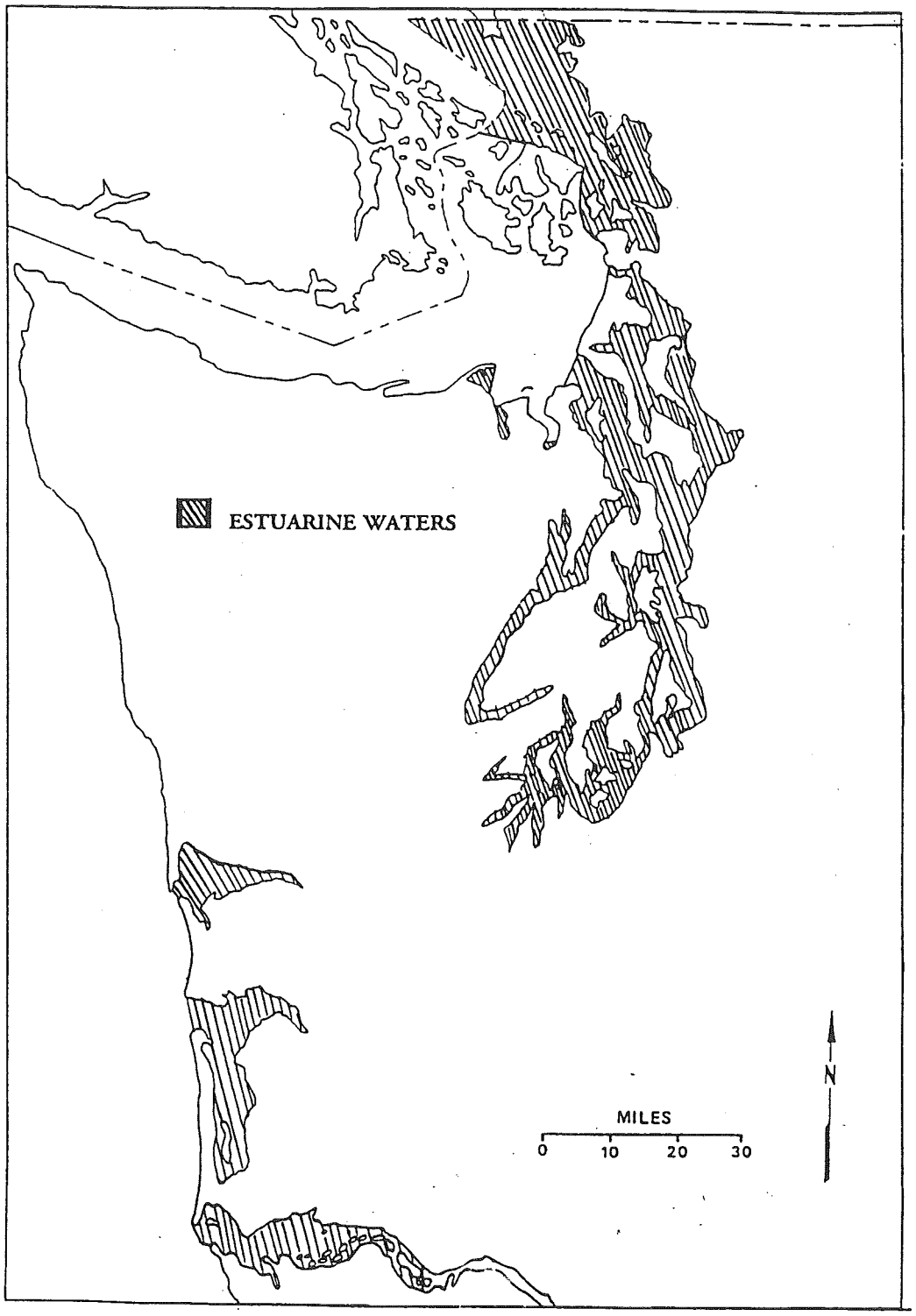
[Statutory Authority: Chapter 90.48 RCW. 92-10-005 (Order 91-13), § 173-183-900, filed 4/23/92, effective 5/24/92.]

WAC 173-183-910 Severability. If any provision of this rule or its application to any person or circumstance is held invalid, the remainder of the rule or application of the provision to other persons or circumstances is not affected.

[Statutory Authority: Chapter 90.48 RCW. 92-10-005 (Order 91-13), § 173-183-910, filed 4/23/92, effective 5/24/92.]

WAC 173-183-920 Appendices.

APPENDIX 1: ESTUARINE WATERS OF THE STATE



APPENDIX 2: SPECIES AND SPECIES GROUPS INCLUDED IN THE MARINE FISH VULNERABILITY RANKING

Common Name	Scientific Name
Pacific sleeper shark	Somniosus pacificus
Spiny dogfish	Squalus acanthias
Skates	Rajidae
Spotted ratfish	Hyrodlaguscolleri
Green sturgeon	Acipensermedirostris
White sturgeon	Acipensertransmontanus
Pacific herring	Clupeapallasii
Northern anchovy	Engraulismordax
Surf smelt	Hypomesuspretiosus
Night smelt	Spirinchusstarksi
Long fin smelt	Spirinchusthaleichthys
Eulachon	Thaleichthyspacificus
Pacific cod	Gadusmacrocephalus
Pacific tomcod	Microgadusproximus
Walleye pollock	Theragrachalcogramma
Whiting	Merlucciusproductus
Plainfin midshipman	Porichthysnotatus
Tubesnout	Aulorhynchusfavidus
Three-spine stickleback	Gasterosteusaculeatus
Pacific Ocean perch	Sebastesalutus
Brown rockfish	Sebastesauriculatus
Silvergray rockfish	Sebastesbrevispinis
Copper rockfish	Sebastescaurinus
Puget Sound rockfish	Sebastesemphaeus
Widow rockfish	Sebastesentomelas
Yellowtail rockfish	Sebastesflavidus
Quillback rockfish	Sebastesmaliger
Black rockfish	Sebastesmelanops
Blue rockfish	Sebastesmystinus
China rockfish	Sebastesnebulosus
Bocaccio	Sebastespaucispinis
Canary rockfish	Sebastespinniger
Yelloweye rockfish	Sebastesruberrimus
Shortspine thornyhead	Sebastolobusalascanus
Longspine thornyhead	Sebastolobusaltivelis
Sablefish	Anoplopomafimbria
Kelp Greenling	Hexagrammosdecragrammus
Lingcod	Ophiodonelongatus
Red Irish lord	Hemilepidotus
Pacific staghorn sculpin	Leptocottusarmatus
Cabezon	Scorpaenichthysmarmoratus
Redtail surfperch	Amphistichusrhodoterus
Shiner surfperch	Cymatogasteraggregata
Pile surfperch	Damalichthysvacca
Striped surfperch	Embiotocalateralis
Eelpouts	Zoarcidae
Snake prickleback	Lumpenussagitta
Gunnels	Pholididae
Wolf-eel	Anarrhichthysocellatus
Pacific sand lance	Ammodyteshexapterus
Pacific sand dab	Citharichthyssordidus
Speckled sand dab	Citharichthysstigmaeus
Arrowtooth flounder	Atheresthesstomias
Petrale sole	Eposettajordani
Rex sole	Glyptocephaluszachirus
Pacific halibut	Hippoglossusstenolepis
Rock sole	Lepidopsettabilineata
Dover sole	Microstomuspacificus
English sole	Parophrysvetulus
Starry Flounder	Platichthysstellatus
Sand sole	Psettichthysmelanostictus

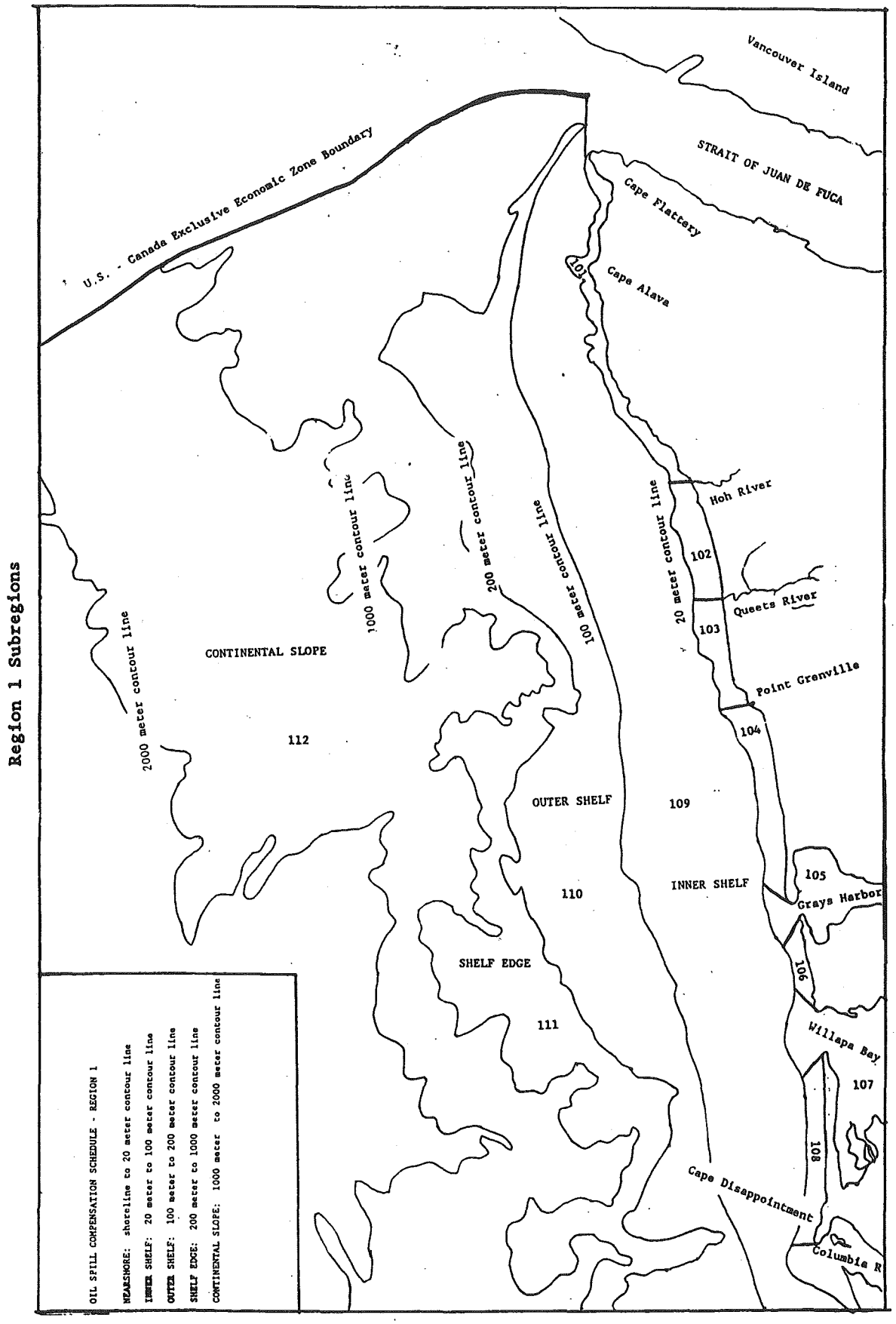
APPENDIX 3: SPECIES INCLUDED IN THE SALMON VULNERABILITY RANKING

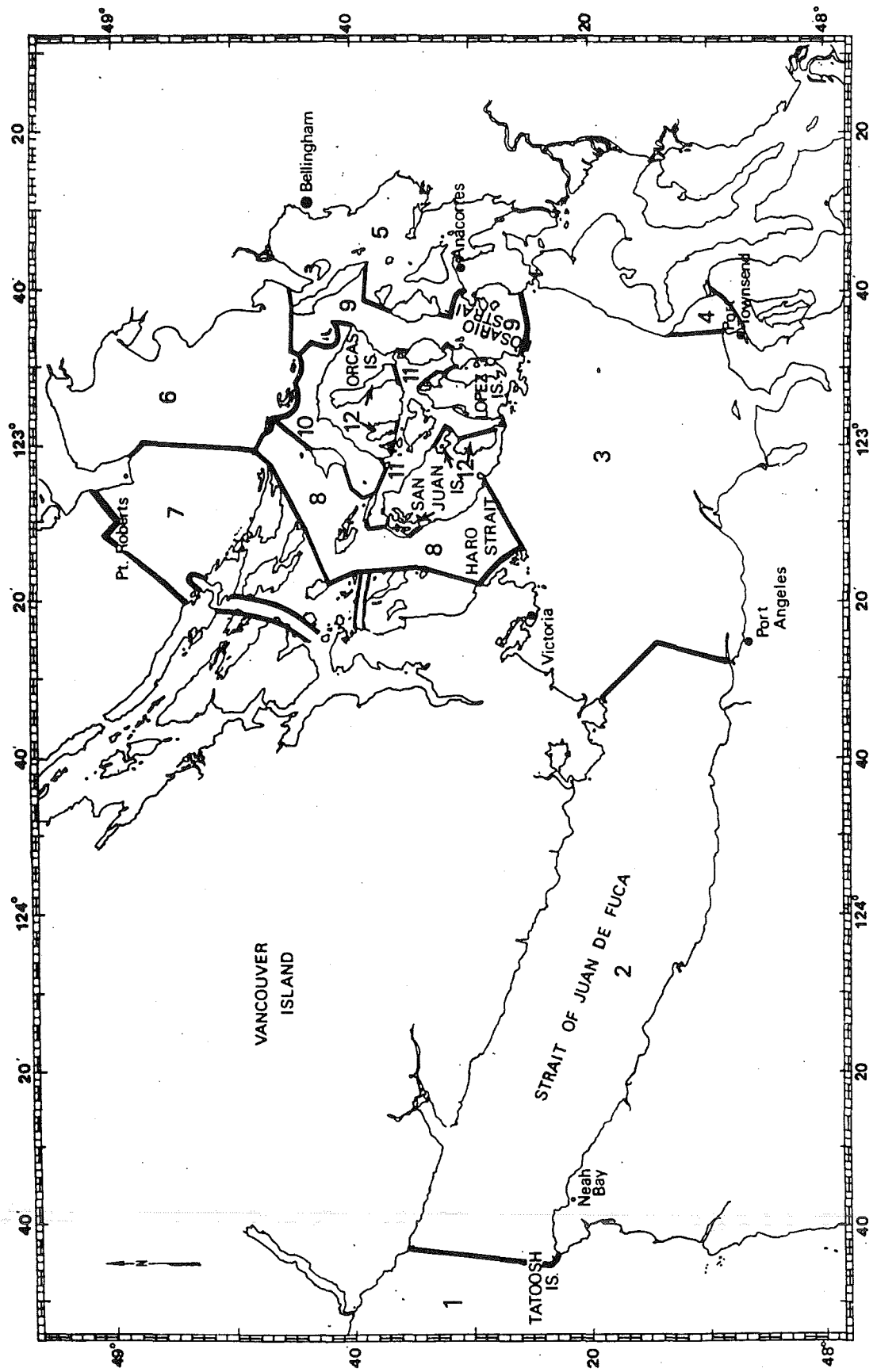
Common Name	Scientific Name
Chinook	Oncorhynchus tshawytscha
Coho	O. kisutch
Pink	O. gorbushca
Chum	O. keta
Sockeye	O. nerka

APPENDIX 4: SPECIES INCLUDED IN THE SHELLFISH VULNERABILITY RANKING

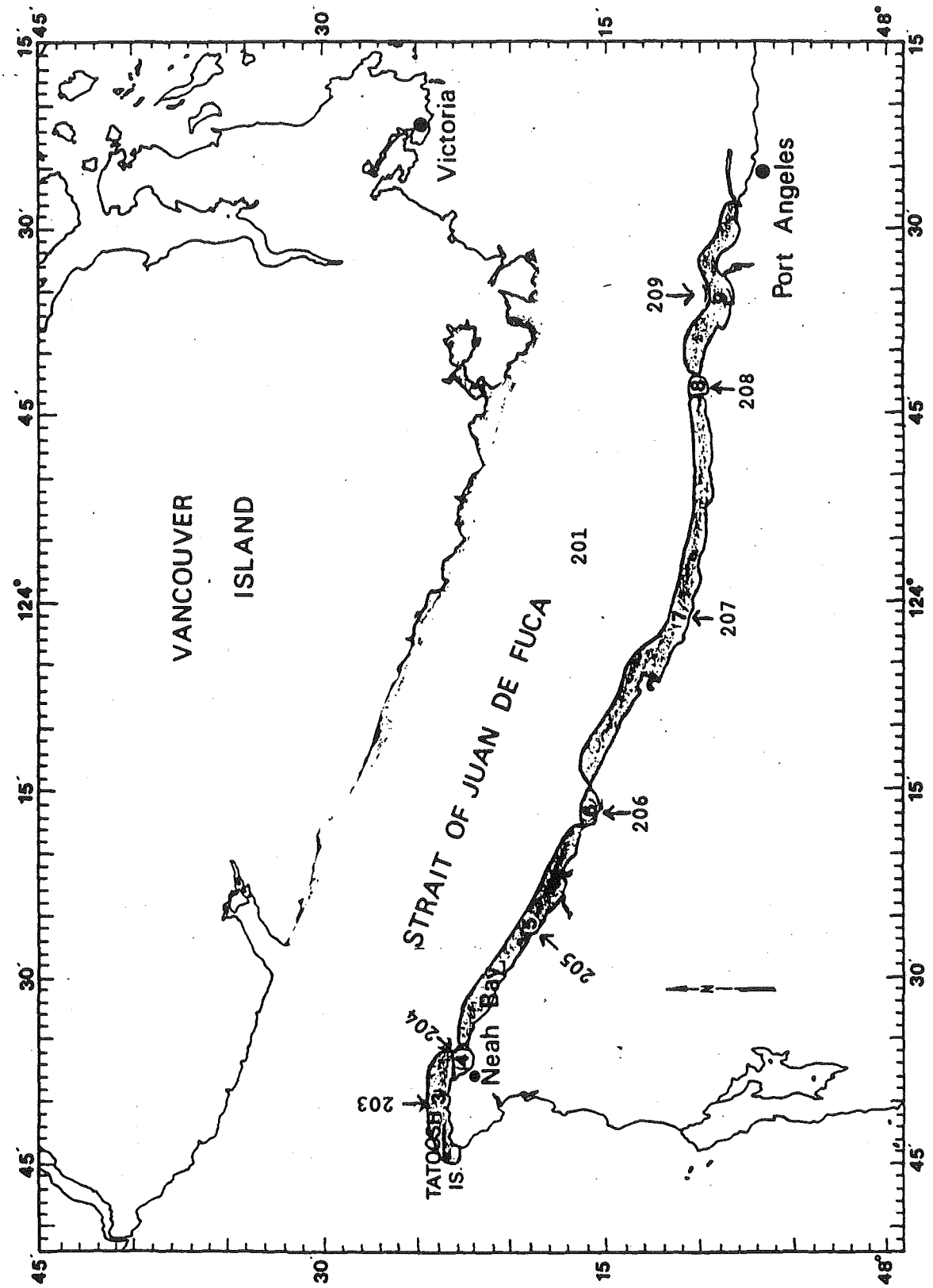
Common Name	Scientific Name
Pacific Oyster	Crassostrea gigas
Olympia Oyster	Ostrea lurida
Pacific Razor Clam	Siliqua patula
Geoduck	Panope generosa
Butter Clam	Saxidomus giganteus
Native Little Neck	Protothaca staminea
Manila Clam	Venerupis japonica
Gaper Clam	Tresus nuttalli
Horse Clam	T. capax
Eastern Soft Shell	Mya arenaria
Cockles	Clinocardium nuttalli
Pink Scallop	Chlamys rubida
Spiny Scallop	C. hastata
Rock Scallop	Hinnites multirugous
Weathervane Scallop	Pecten caurinus
Bay Mussel	Mytilus spp.
California Mussel	M. californianus
Goose(neck) Barnacle	Pollicipes polymerus
Squid	Loligo opalescens
Octopus	Octopus dolfleini
Northern Abalone	Haliotis kamschatkana
Limpets	subsistence harvest species
Whelks	subsistence harvest species
Moon Snail	Polinices
Chitons	subsistence harvest species
Sea Cucumber	Parastichopus californicus
Red Sea Urchin	Strongylocentrotus franciscanus
Green Sea Urchin	S. droebachiensis
Purple Sea Urchin	S. purpuratus
Dungeness Crab	Cancer magister
Red (Rock) Crab	C. productus
Spot Shrimp	Pandalus platyceros
Coon Stripe Shrimp	P. danae
Side Shrimp	Pandalopsis dispar
Pink Shrimp	Pandalus jordani & P. borealis
Ghost Shrimp	Callianassa spp.
Mud Shrimp	Upogebia pugettensis
Humpback Shrimp	Pandalus hypsinotus

APPENDIX 5: COMPENSATION SCHEDULE REGIONS AND SUBREGIONS

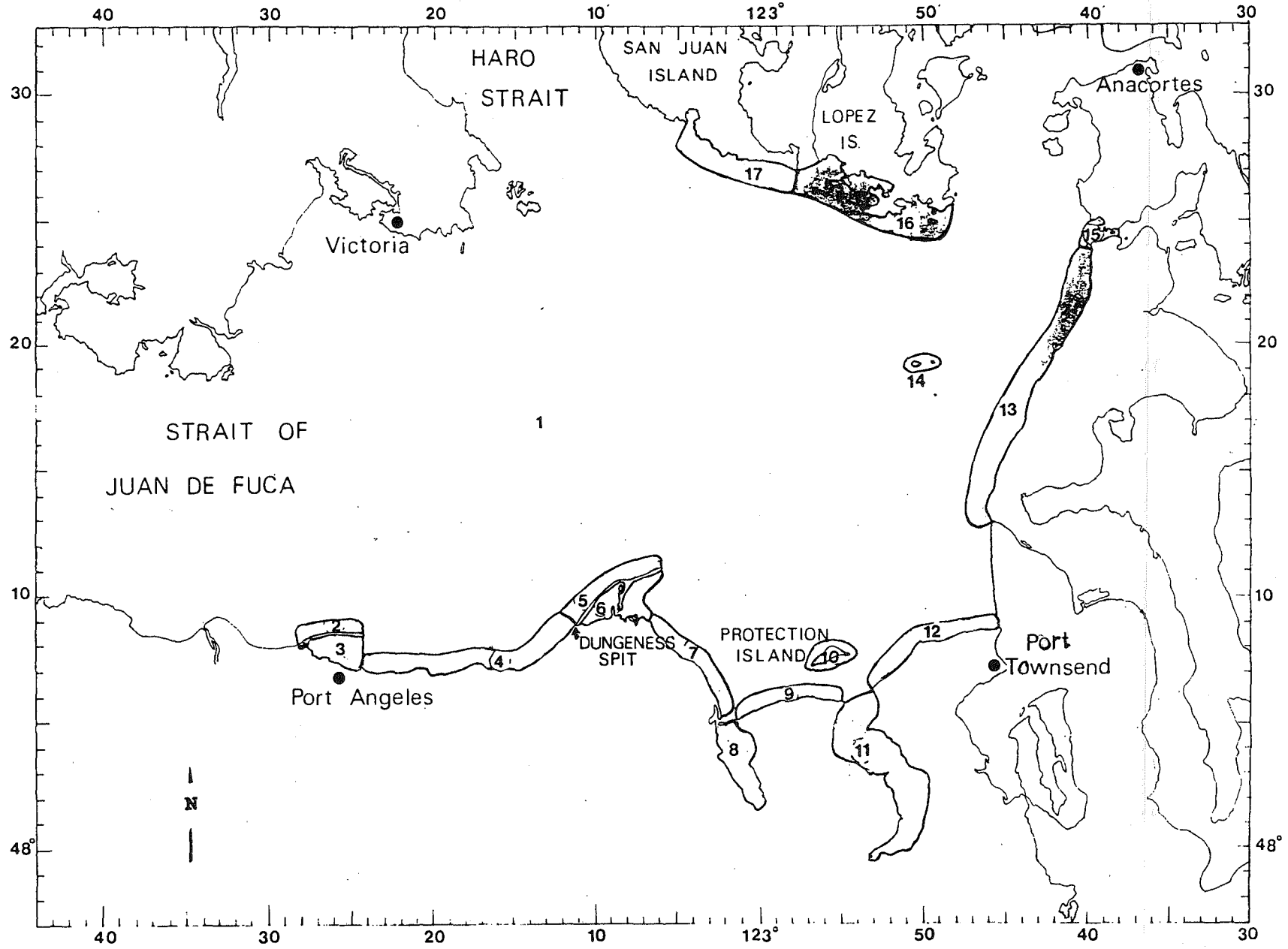




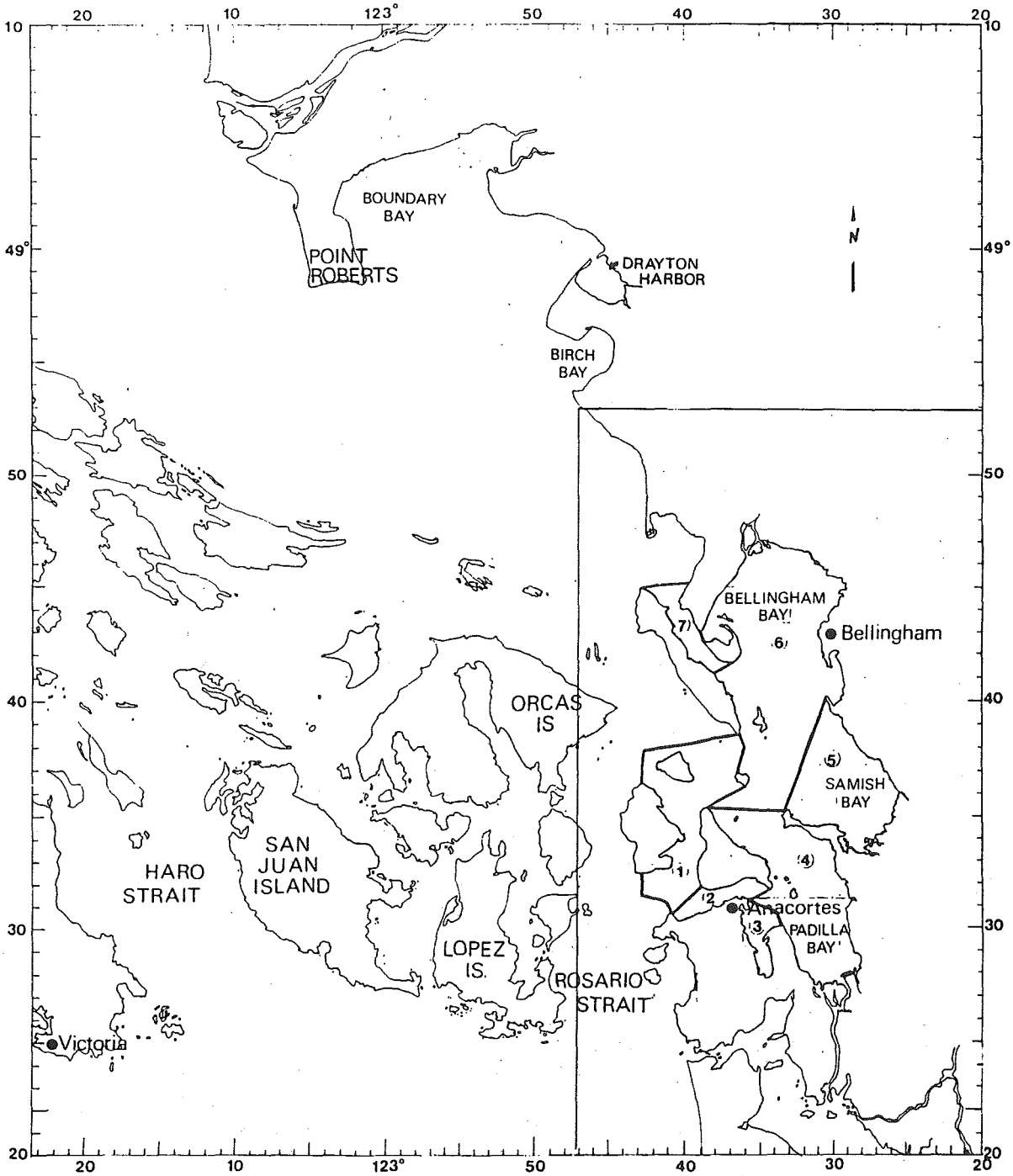
Northern Puget Sound, Strait of Juan de Fuca and Outer Coast
Compensation Schedule Regions



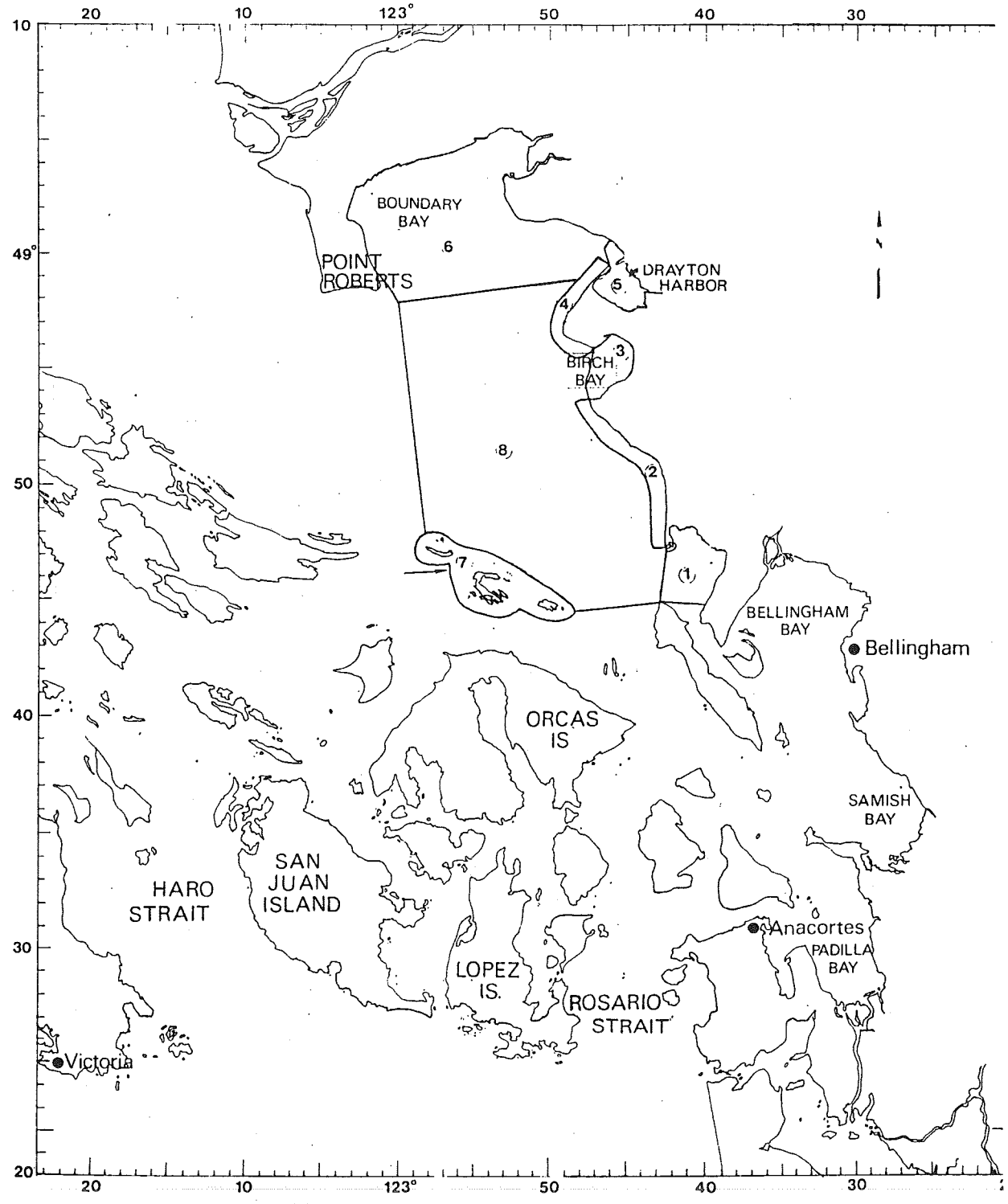
Region 2 Subregions



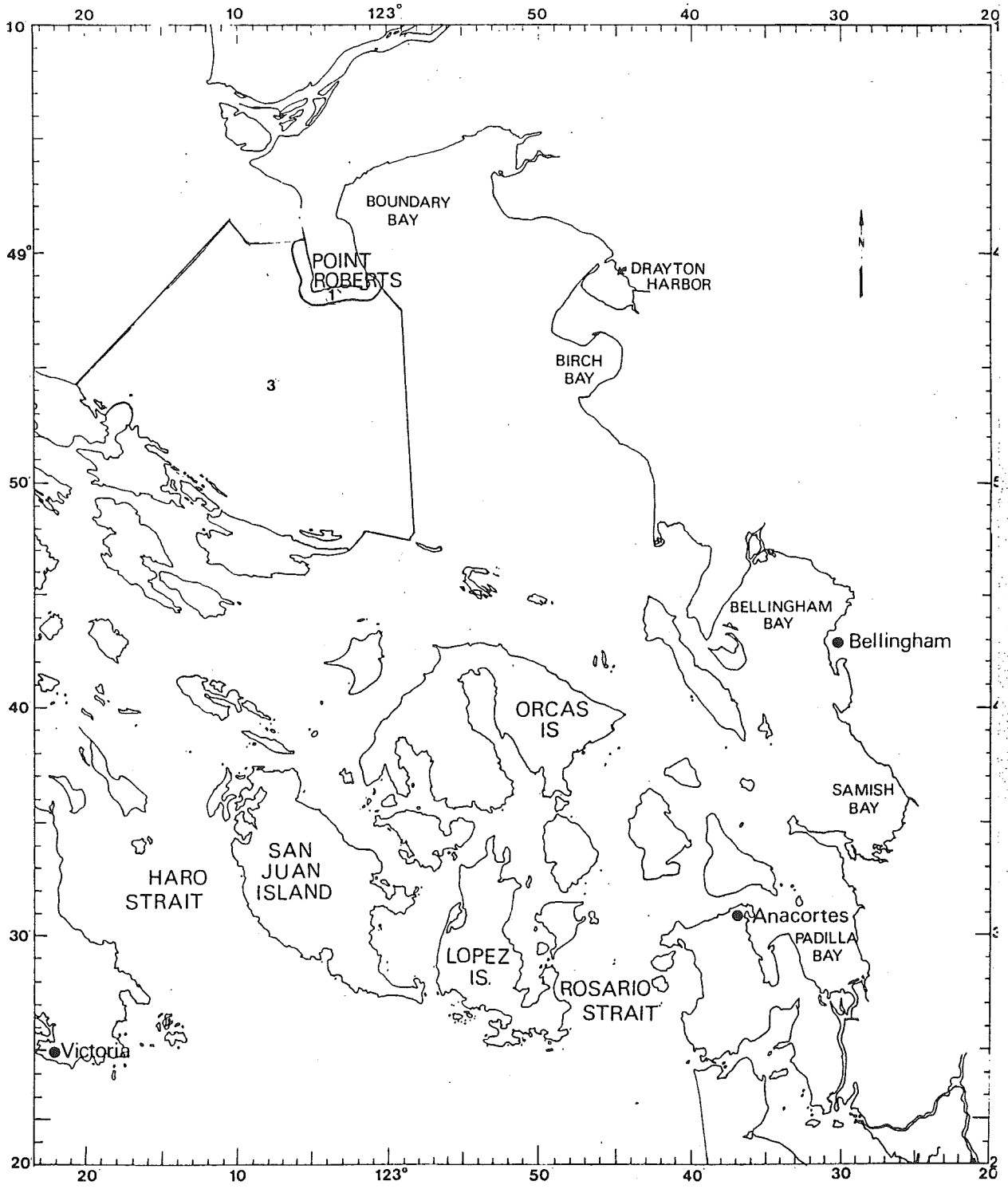
REGION 3 SUBREGIONS 301 THROUGH 317



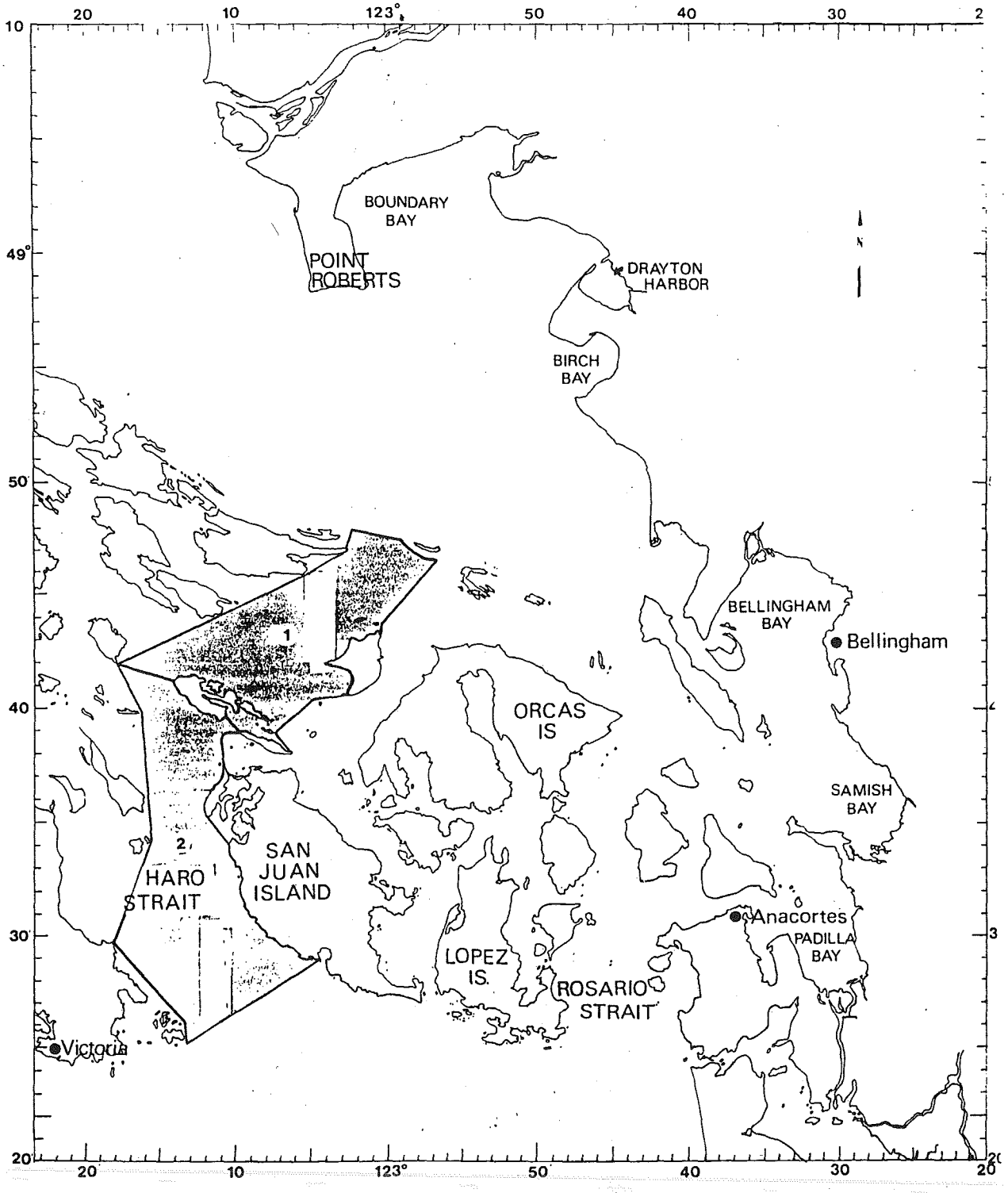
REGION 5 SUBREGIONS 501 THROUGH 507



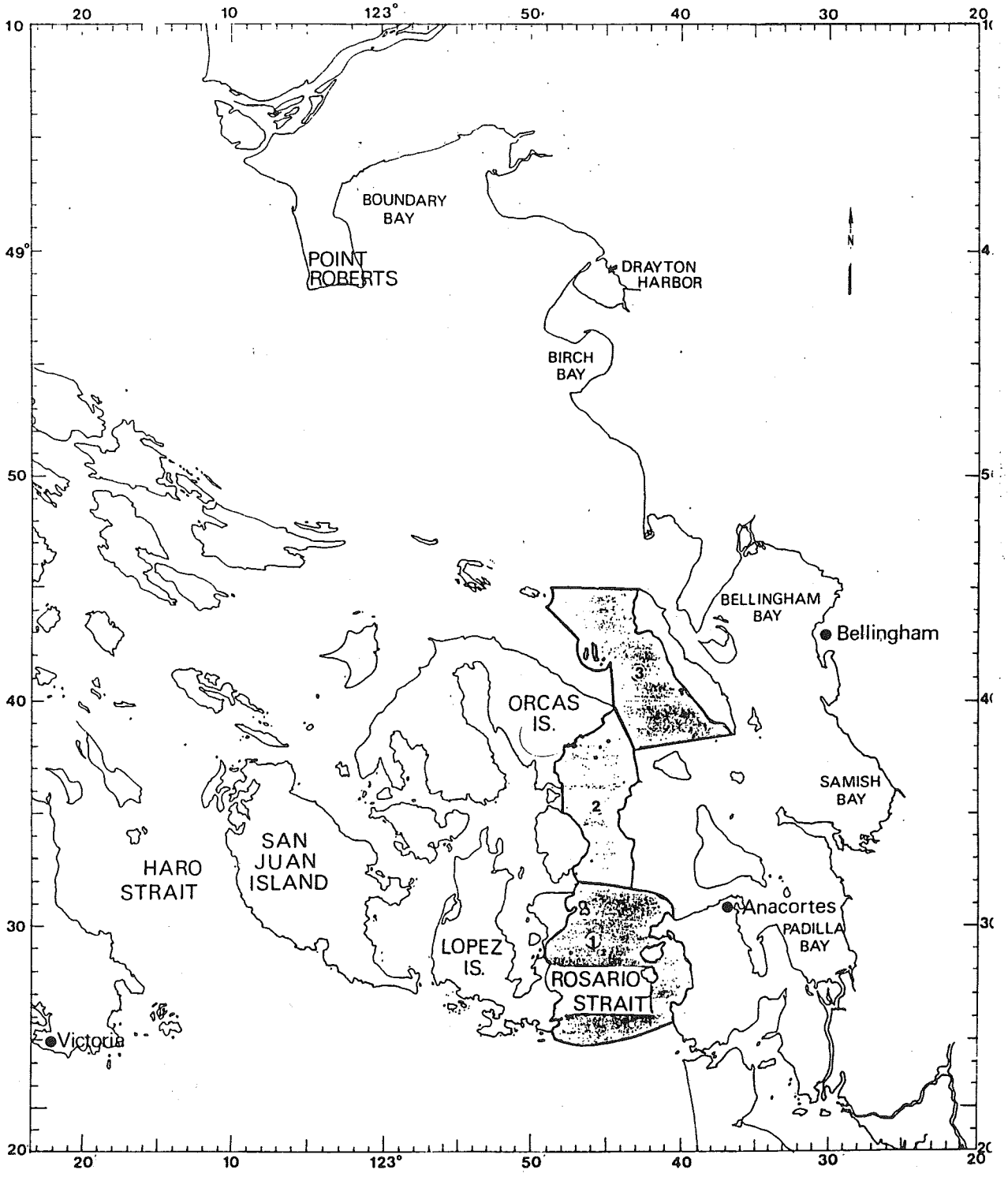
REGION 6 SUBREGIONS 601 THROUGH 607



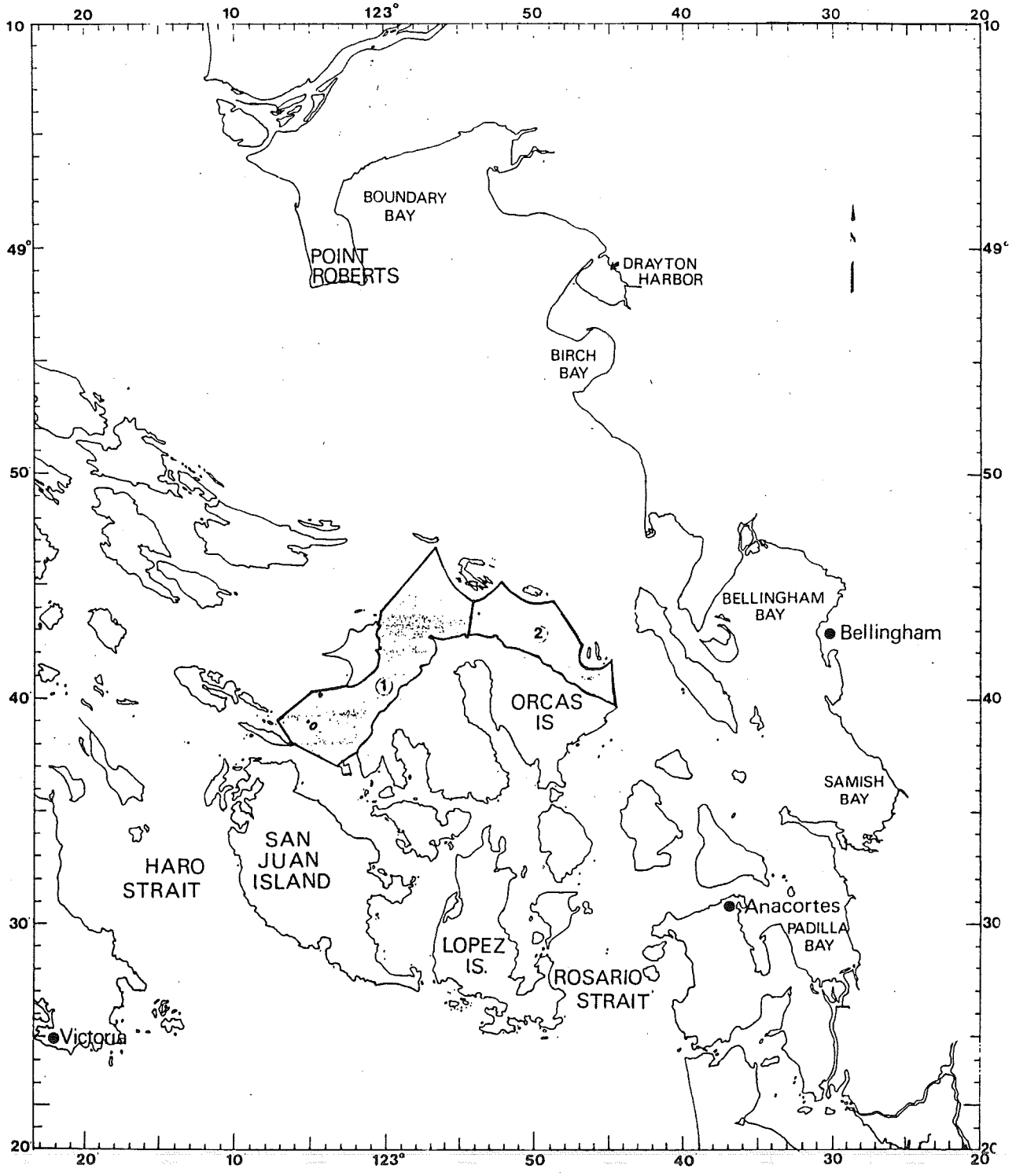
REGION 7 SUBREGIONS 701 AND 703



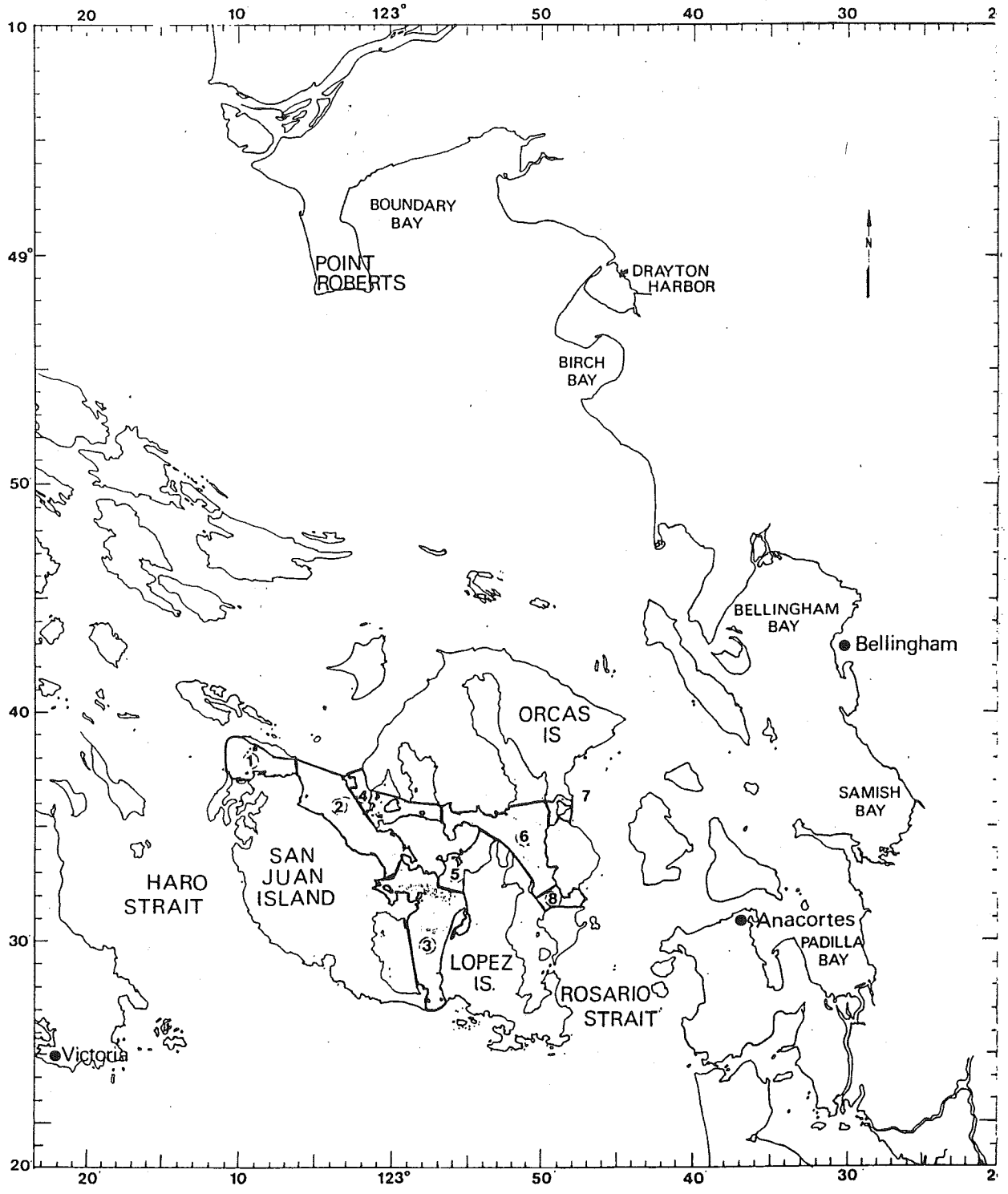
REGION 8 SUBREGIONS 801 AND 802



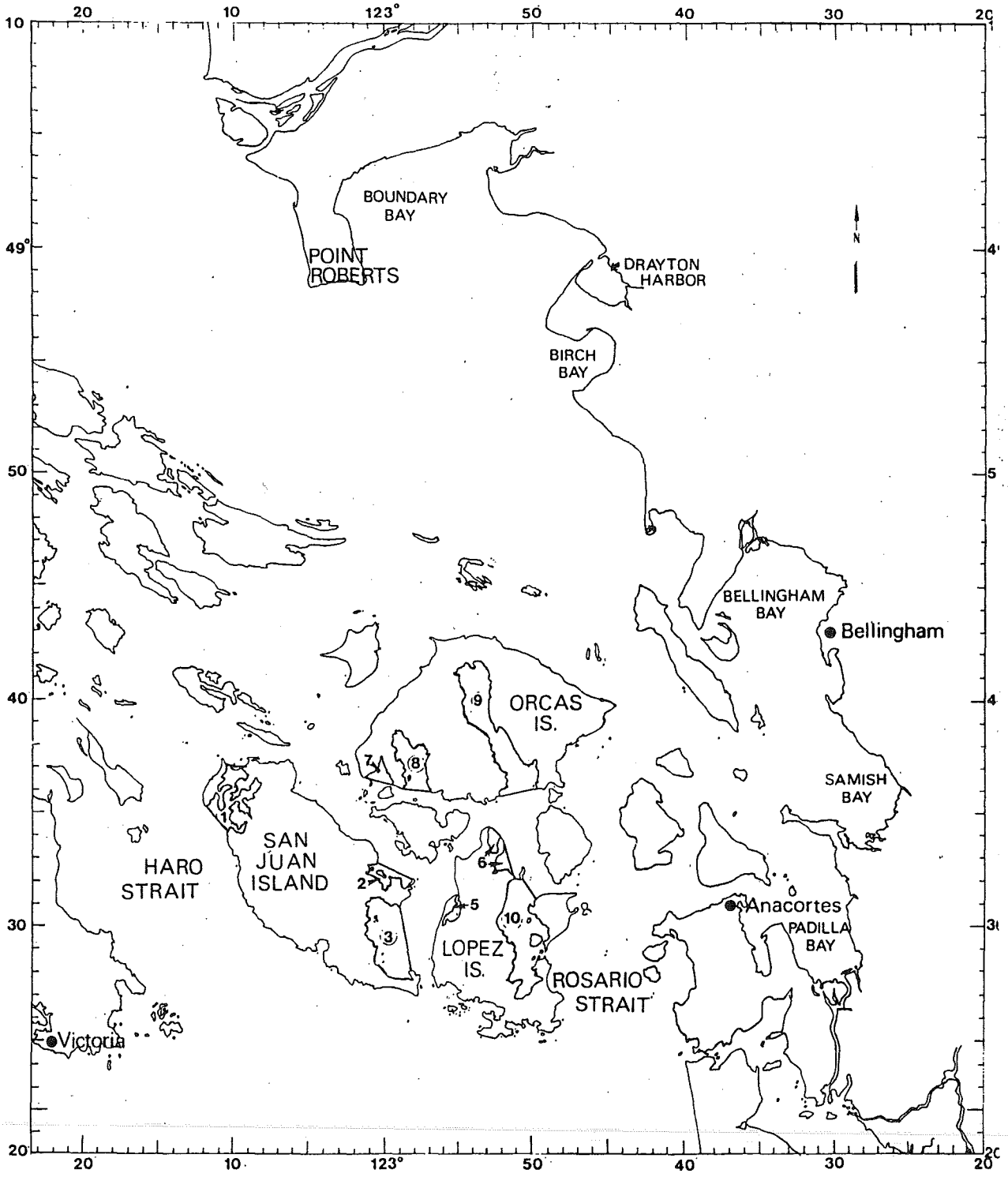
REGION 9 SUBREGIONS 901 THROUGH 903



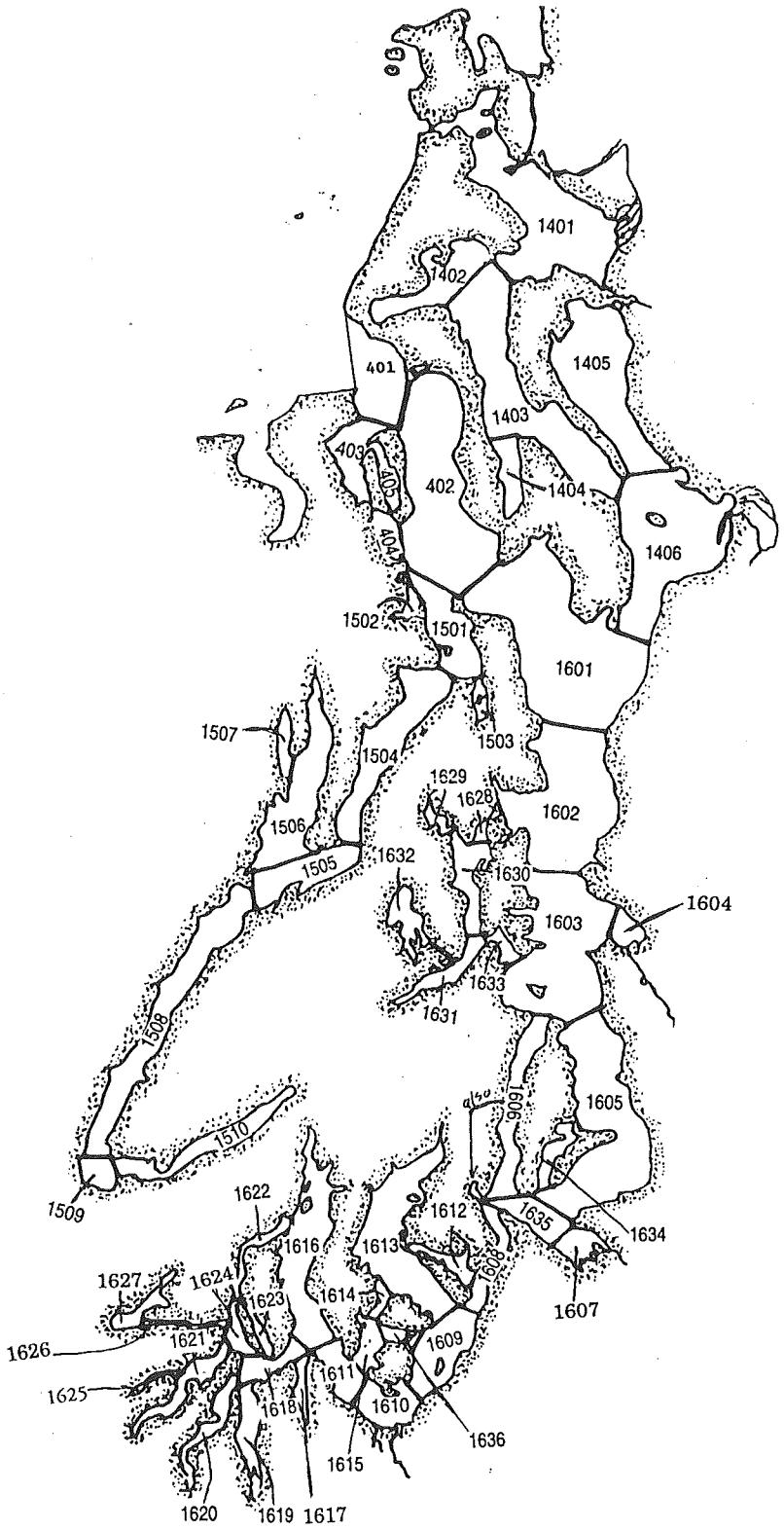
REGION 10 SUBREGIONS 1001 AND 1002



REGION 11 SUBREGIONS 1101 THROUGH 1108

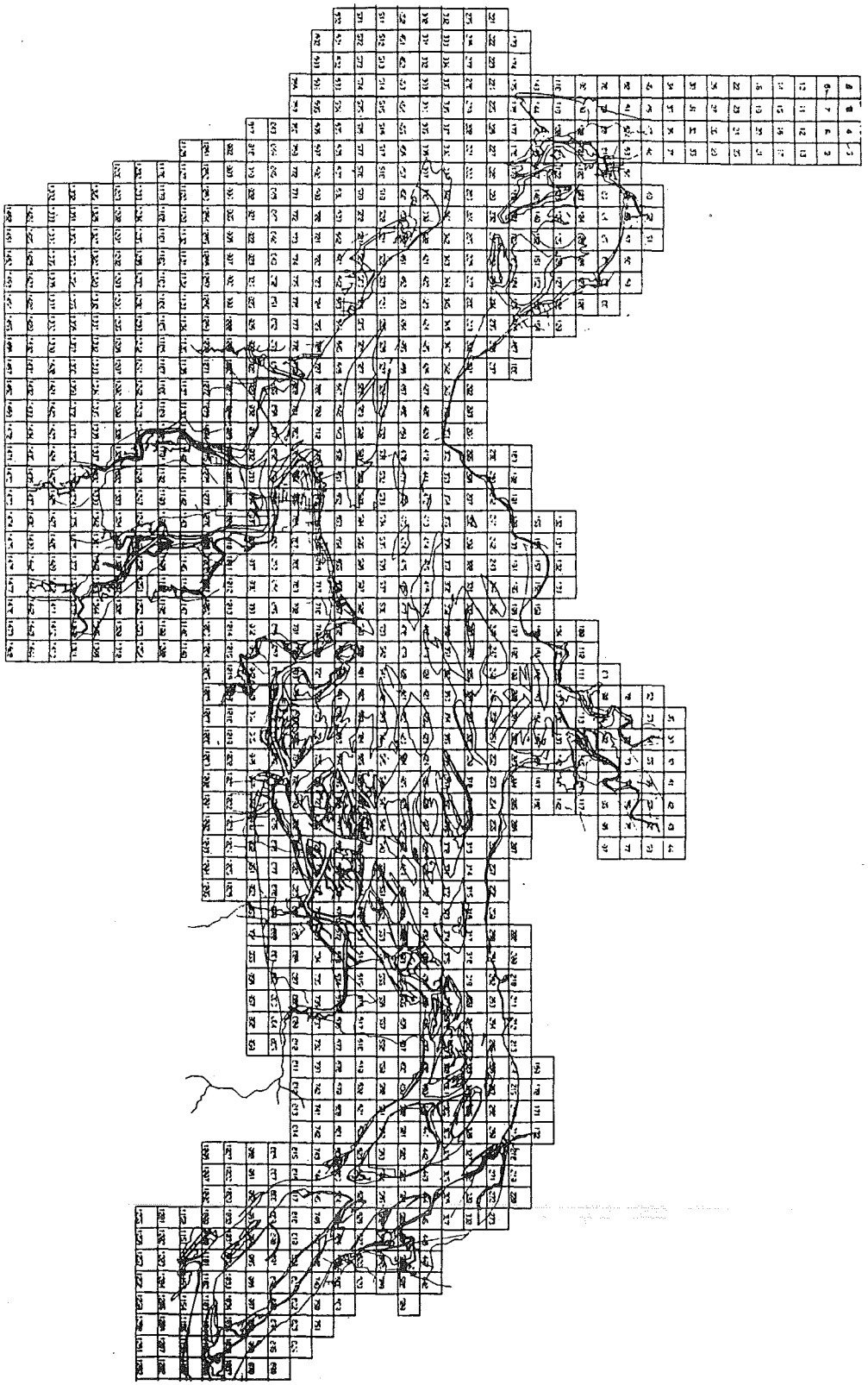


REGION 12 SUBREGIONS 1201 THROUGH 1203 AND 1205 THROUGH 1210



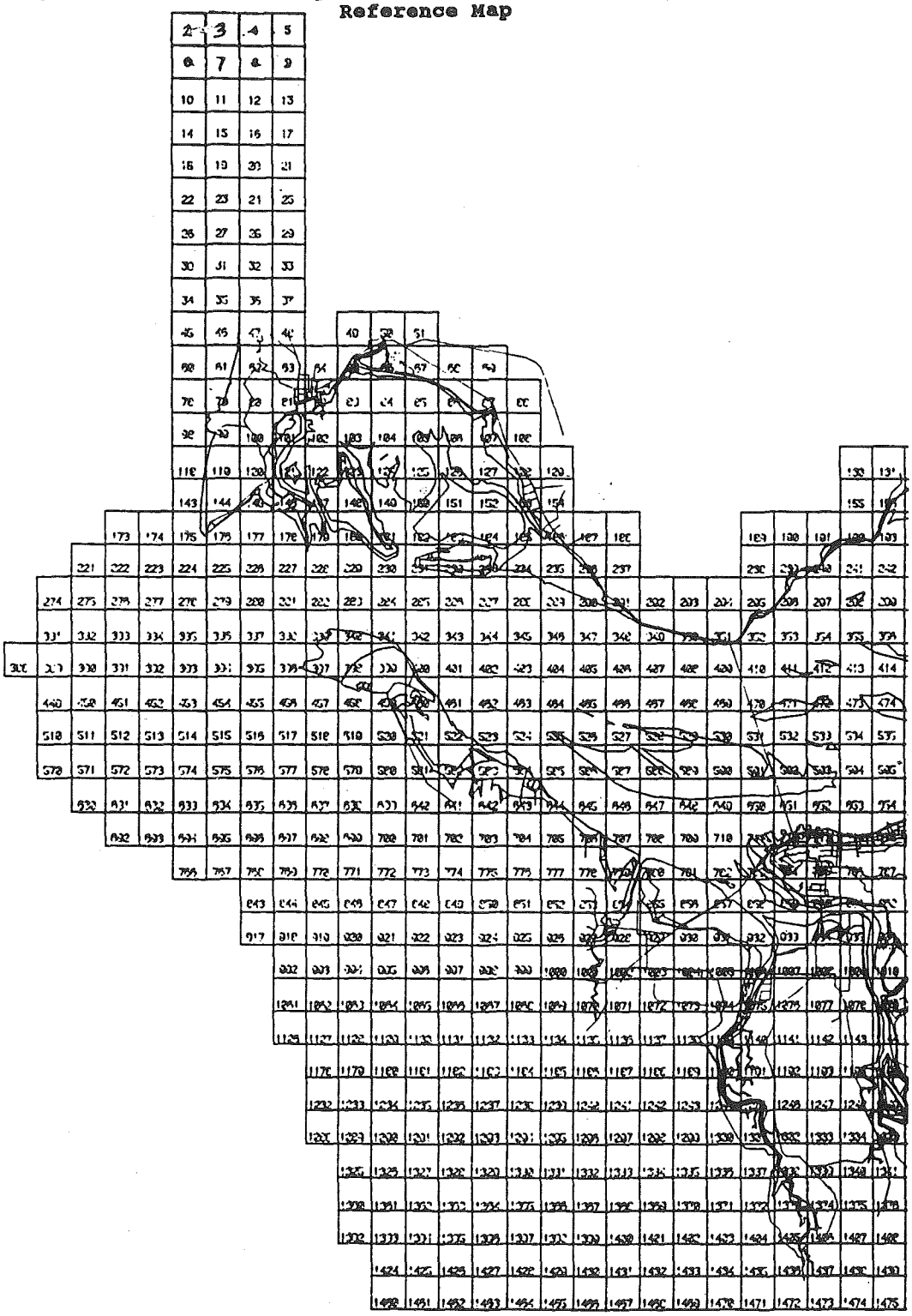
SUBREGIONS OF REGIONS 4, 14, 15 AND 16

APPENDIX 6: COLUMBIA RIVER ESTUARY SEASONAL RESOURCE SENSITIVITIES BY ONE SQUARE KILOMETER GRID CELL

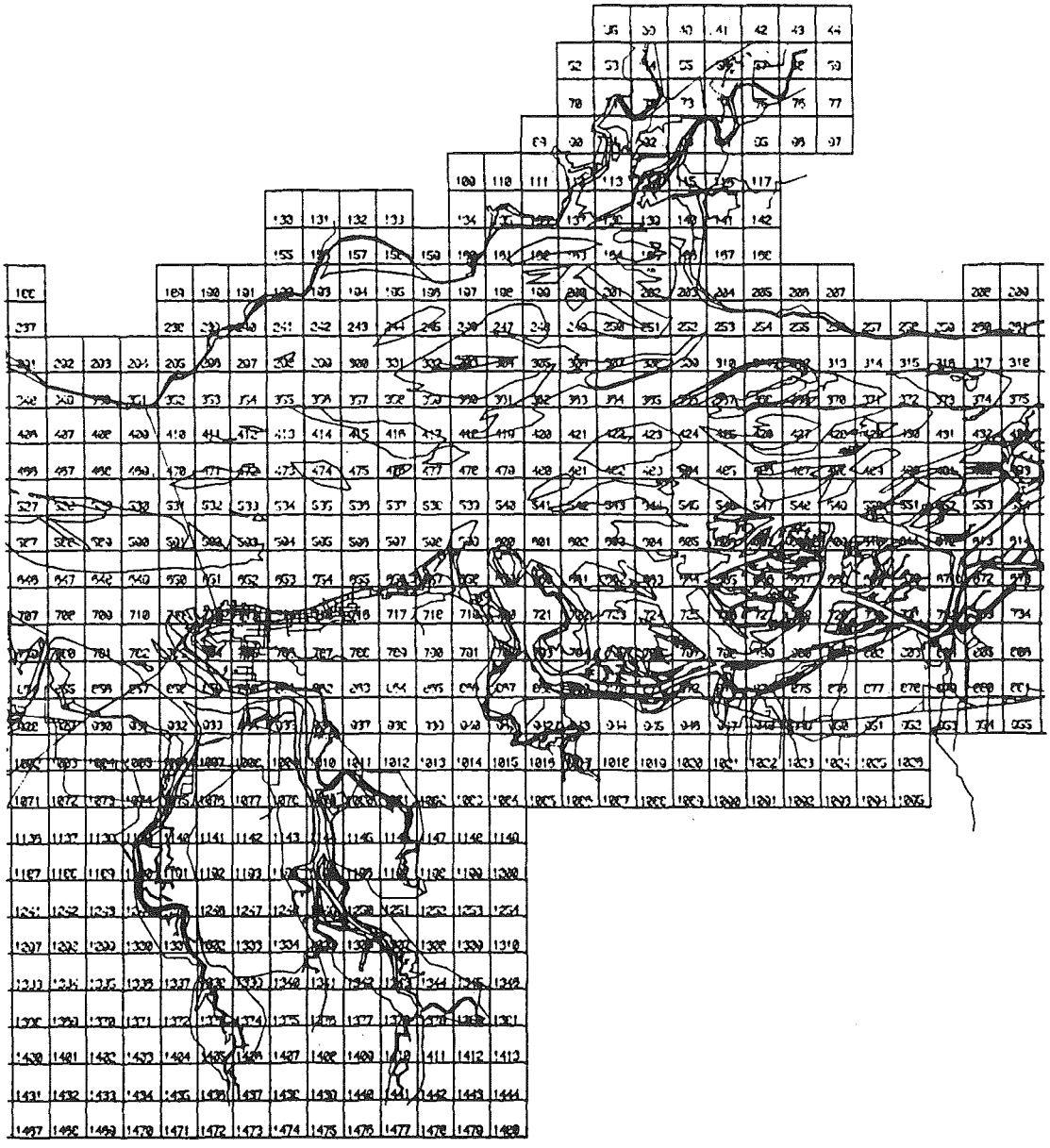


Columbia River Estuary Grid-Cell Indentification (CGRID-ID)
REFERENCE MAP (enlarged maps and sensitivity rankings follow)

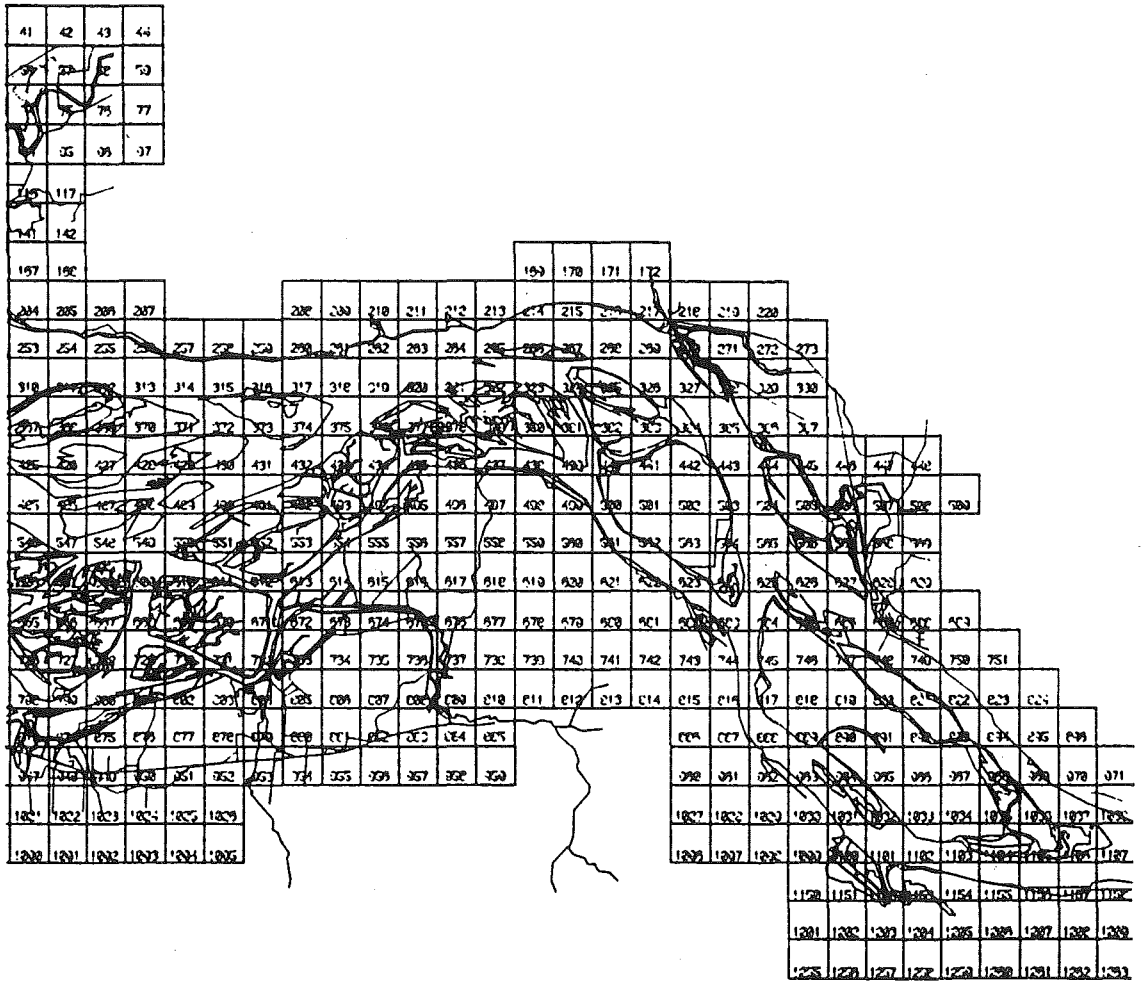
Columbia River Estuary Grid-Cell Indentification (CGRID-ID)
Reference Map



Columbia River Estuary Grid-Cell Indentification (CGRID-ID) Reference Map



Columbia River Estuary Grid-Cell Indentification (CGRID-ID) Reference Map



APPENDIX 6. COLUMBIA RIVER ESTUARY RESOURCE SENSITIVITY RANKINGS BY SEASON

Grid-Cell #	FINAL (Sp,Su,F,W)	HUMAN USE (Sp,Su,F,W)	BIRD (Sp,Su,F,W)	MAMMAL (Sp,Su,F,W)	FISH (Sp,Su,F,W)	HABITAT (Sp,Su,F,W)	INVERT (Sp,Su,F,W)
0	1111	1111	1111	1111	1111	1111	1111
1	2222	1111	1111	2222	1111	1111	1111
2	2222	1111	1111	2222	1111	1111	1111
3	1111	1111	1111	1111	1111	1111	1111
4	2222	1111	1111	2222	1111	1111	1111
5	2222	1111	1111	2222	1111	1111	1111
6	1111	1111	1111	1111	1111	1111	1111
7	2222	1111	1111	2222	1111	1111	1111
8	2222	1111	1111	2222	1111	1111	1111
9	2222	1111	1111	2222	1111	1111	1111
10	2222	1111	1111	2222	1111	1111	1111
11	2222	1111	1111	2222	1111	1111	1111
12	2222	1111	1111	2222	1111	1111	1111
13	2222	1111	1111	2222	1111	1111	1111
14	2222	1111	1111	2222	1111	1111	1111
15	2222	1111	1111	2222	1111	1111	1111
16	2222	1111	1111	2222	1111	1111	1111
17	2222	1111	1111	2222	1111	1111	1111
18	2222	1111	1111	2222	1111	1111	1111
19	2222	1111	1111	2222	1111	1111	1111
20	2222	1111	1111	2222	1111	1111	1111
21	2222	1111	1111	2222	1111	1111	1111
22	2222	1111	1111	2222	1111	1111	1111
23	2222	1111	1111	2222	1111	1111	1111
24	2222	1111	1111	2222	1111	1111	1111
25	2222	1111	1111	2222	1111	1111	1111
26	2222	1111	1111	2222	1111	1111	1111
27	2222	1111	1111	2222	1111	1111	1111
28	4444	1111	1111	1111	1111	4444	1111
29	1111	1111	1111	1111	1111	1111	1111
30	1111	1111	1111	1111	1111	1111	1111
31	1111	1111	1111	1111	1111	1111	1111
32	1111	1111	1111	1111	1111	1111	1111
33	1111	1111	1111	1111	1111	1111	1111
34	4422	1111	4422	2222	1111	1111	1111
35	4422	1111	4422	2222	1111	1111	1111
36	4422	1111	4422	1111	1111	1111	1111
37	4444	1111	1111	1111	1111	4444	1111
38	5555	1111	1111	1111	1111	5555	1111
39	1111	1111	1111	1111	1111	1111	1111
40	5555	1111	1111	1111	2222	5555	1111
41	5555	1111	1111	1111	1111	5555	1111
42	5555	1111	1111	1111	1111	5555	1111
43	1111	1111	1111	1111	1111	1111	1111
44	4422	1111	4422	2222	1111	1111	1111
45	4422	1111	4422	2222	1111	1111	1111
46	4432	1111	4432	1111	1111	1111	1111
47	4422	1111	4422	1111	1111	1111	1111
48	4433	1111	4433	1111	1111	1111	1111
49	5555	1111	4433	1111	1111	5555	1111
50	5555	1111	4433	1111	1111	5555	1111
51	5555	1111	4433	1111	1111	5555	1111
52	5555	1111	1131	1111	2222	5555	1111
53	5555	1111	4444	1111	2222	5555	1111
54	5555	1111	1131	1111	2222	5555	1111
55	5555	1111	1111	1111	2222	5555	1111
56	5555	1111	1111	1111	1111	5555	1111
57	5555	1111	1111	1111	1111	5555	1111
58	1111	1111	1111	1111	1111	1111	1111
59	4422	1111	4422	2222	1111	1111	1111
60	4422	1111	4422	2222	1111	1111	1111
61	4432	1111	4432	1111	1111	1111	1111
62	4433	1111	4433	1111	1111	3333	1111
63	5555	1111	4433	1111	1111	5555	1111
64	5555	1111	4433	1111	1111	5555	1111
65	4444	1111	4433	1111	1111	4444	1111
66	5555	1111	4433	1111	1111	5555	1111
67	5555	1111	4433	1111	1111	5555	1111
68	5555	1111	4422	1111	1111	5555	1111
69	5555	1111	1144	1111	1111	5555	1111

Grid-Cell #	FINAL (Sp,Su,F,W)	HUMAN USE (Sp,Su,F,W)	BIRD (Sp,Su,F,W)	MAMMAL (Sp,Su,F,W)	FISH (Sp,Su,F,W)	HABITAT (Sp,Su,F,W)	INVERT (Sp,Su,F,W)
70	5555	1111	4444	1111	1111	5555	1111
71	5555	1111	4444	1111	1111	5555	1111
72	5555	1111	4444	1111	2222	5555	1111
73	5555	1111	1111	1111	2222	5555	1111
74	1111	1111	1111	1111	1111	1111	1111
75	4422	1111	4422	2222	1111	1111	1111
76	4422	1111	4422	2222	1111	1111	1111
77	5555	1111	4433	1111	1111	5555	1111
78	5555	1111	4433	1111	1111	5555	1111
79	5555	1111	4433	1111	1111	5555	1111
80	4444	1111	4433	1111	1111	4444	1111
81	4444	1111	4433	1111	1111	4444	1111
82	4444	1111	4433	1111	1111	4444	1111
83	5555	1111	4433	1111	1111	5555	1111
84	5555	1111	4433	1111	1111	5555	1111
85	4422	1111	4422	1111	1111	1111	1111
86	5555	1111	1131	1111	1111	5555	1111
87	5555	1111	1144	1111	1111	5555	1111
88	5555	1111	4444	1111	1111	5555	1111
89	5555	1111	4444	1111	1111	5555	1111
90	5555	1111	4444	1111	1111	5555	1111
91	5555	1111	1131	1111	1111	5555	1111
92	4422	1111	4422	2222	1111	1111	1111
93	4422	1111	4422	2222	1111	1111	1111
94	5555	1111	4433	1111	1111	5555	1111
95	5555	1111	4433	1111	1111	5555	1111
96	5555	1111	4433	1111	1111	5555	1111
97	5555	1111	4433	1111	1111	5555	1111
98	4444	1111	4433	1111	1111	4444	1111
99	4444	1111	4433	1111	1111	4444	1111
100	4444	1111	4433	1111	1111	4444	1111
101	5555	1111	4433	1111	2222	5555	1111
102	5555	1111	4433	1111	1111	5555	1111
103	4422	1111	4422	1111	1111	1111	1111
104	4422	1111	4422	1111	1111	1111	1111
105	5555	1111	1131	1111	1111	5555	1111
106	5555	1111	1131	1111	1111	5555	1111
107	5555	1111	1144	1111	1111	5555	1111
108	4444	1111	1144	1111	1111	4444	1111
109	5555	1111	4444	1111	1111	5555	1111
110	5555	1111	4444	1111	1111	5555	1111
111	5555	1111	1144	1111	1111	5555	1111
112	4422	1111	4422	2222	1111	1111	1111
113	5555	1111	4422	1111	1111	5555	1111
114	5555	1111	5533	1111	1111	5555	1111
115	5555	1111	5533	1111	1111	5555	1111
116	5555	1111	4433	1111	1111	5555	1111
117	5555	1111	4433	1111	1111	5555	1111
118	4444	1111	4433	1111	1111	4444	1111
119	4444	1111	4433	1111	1111	4444	1111
120	4444	1111	4433	1111	1111	4444	1111
121	4444	1111	4433	1111	2222	4444	1111
122	5555	1111	4433	1111	2222	5555	1111
123	5555	1111	4433	1111	1111	5555	1111
124	5555	1111	4433	1111	1111	5555	1111
125	5555	1111	4433	1111	1111	5555	1111
126	5555	1111	1111	1111	1111	5555	1111
127	5555	1111	1131	1111	2222	5555	1111
128	5555	1111	1131	1111	2222	5555	1111
129	3333	1111	1131	1111	1111	3333	1111
130	3333	1111	1131	1111	1111	3333	1111
131	3333	1111	1131	1111	1111	3333	1111
132	5555	1111	4444	1111	1111	5555	1111
133	5555	1111	4444	1111	1111	5555	1111
134	1144	1111	1144	1111	1111	1111	1111
135	4433	1111	4433	1111	1111	1111	1111
136	4433	1111	4433	1111	1111	1111	1111
137	2222	1111	1111	2222	1111	1111	1111
138	2222	1111	1111	2222	1111	1111	1111
139	5555	1111	4422	2222	1111	5555	1111
140	5555	1111	4422	1111	1111	5555	1111
141	4433	1111	4433	1111	1111	1111	1111

Grid-Cell #	FINAL (Sp,Su,F,W)	HUMAN USE (Sp,Su,F,W)	BIRD (Sp,Su,F,W)	MAMMAL (Sp,Su,F,W)	FISH (Sp,Su,F,W)	HABITAT (Sp,Su,F,W)	INVERT (Sp,Su,F,W)
142	5533	1111	5533	1111	1111	3333	1111
143	4433	1111	4433	1111	1111	3333	1111
144	5555	1111	4433	1111	1111	5555	1111
145	5555	1111	4433	1111	1111	5555	1111
146	4433	1111	4433	1111	1111	3333	1111
147	4433	1111	4433	1111	1111	3333	1111
148	4433	1111	4433	1111	2222	3333	1111
149	5555	1111	4433	1111	2222	5555	1111
150	5555	1111	4433	1111	2222	5555	1111
151	4444	1111	4433	1111	1111	4444	1111
152	5555	1111	4433	1111	2222	5555	1111
153	4444	1111	4433	1111	1111	4444	1111
154	4444	1111	4433	1111	1111	4444	1111
155	5555	1111	1131	1111	1111	5555	1111
156	5555	1111	1131	1111	2222	5555	1111
157	3333	1111	1131	1111	2222	3333	1111
158	3333	1111	1131	1111	1111	3333	1111
159	3333	1111	1131	1111	1111	3333	1111
160	3333	1111	1131	1111	1111	3333	1111
161	5555	1111	4432	1111	1111	5555	1111
162	5555	1111	4444	1111	1111	5555	1111
163	4433	1111	4432	1111	1111	3333	1111
164	1131	1111	1131	1111	1111	1111	1111
165	4433	1111	4433	1111	1111	3333	1111
166	4433	1111	4433	1111	1111	3333	1111
167	4433	1111	4433	1111	1111	3333	1111
168	4433	1111	4433	1111	1111	3333	1111
169	2222	1111	1111	2222	1111	1111	1111
170	2222	1111	1111	2222	1111	1111	1111
171	2222	1111	1111	2222	1111	1111	1111
172	4433	1111	4422	2222	1111	3333	1111
173	4422	1111	4422	2222	1111	1111	1111
174	4422	1111	4422	2222	1111	1111	1111
175	4433	1111	4433	1111	1111	3333	1111
176	4433	1111	4433	1111	1111	3333	1111
177	4433	1111	4433	1111	1111	3333	1111
178	5555	1111	4433	1111	1111	5555	1111
179	5555	1111	4433	1111	1111	5555	1111
180	5555	1111	5533	1111	1111	5555	1111
181	5555	1111	5533	1111	2222	5555	1111
182	4444	1111	4433	1111	2222	4444	1111
183	4433	1111	4433	1111	2222	3333	1111
194	5555	1111	4433	1111	2222	5555	1111
185	5555	1111	4433	1111	1111	5555	1111
186	4444	1111	4433	1111	1111	4444	1111
187	4433	1111	4433	1111	1111	1111	1111
188	4433	1111	4433	1111	1111	1111	1111
189	4433	1111	4433	1111	1111	1111	1111
190	4444	1111	4433	1111	1111	4444	1111
191	4444	1111	1111	1111	1111	4444	1111
192	4444	1111	1131	1111	1111	4444	1111
193	4444	1111	1131	1111	1111	4444	1111
194	4444	1111	1131	1111	1111	4444	1111
195	3333	1111	1131	1111	1111	3333	1111
196	3333	1111	1131	1111	1111	3333	1111
197	3333	1111	1131	1111	1111	3333	1111
198	4444	1111	4433	1111	1111	4444	1111
199	4433	1111	4432	1111	1111	3333	1111
200	4433	1111	4432	1111	1111	3333	1111
201	3333	1111	1131	1111	1111	3333	1111
202	4433	1111	4432	1111	1111	3333	1111
203	4433	1111	4433	1111	1111	3333	1111
204	4433	1111	4433	1111	1111	3333	1111
205	5555	1111	4433	1111	1111	5555	1111
206	4433	1111	4433	1111	1111	3333	1111
207	5555	1111	4433	1111	1111	5555	1111
208	4433	1111	4433	1111	1111	3333	1111
209	5555	1111	4433	1111	1111	5555	1111
210	5555	1111	4433	1111	1111	5555	1111
211	4433	1111	4433	1111	1111	1111	1111
212	5555	1111	4433	1111	1111	5555	1111
213	5555	1111	1111	1111	1111	5555	1111

Grid-Cell #	FINAL (Sp,Su,F,W)	HUMAN USE (Sp,Su,F,W)	BIRD (Sp,Su,F,W)	MAMMAL (Sp,Su,F,W)	FISH (Sp,Su,F,W)	HABITAT (Sp,Su,F,W)	INVERT (Sp,Su,F,W)
214	5555	1111	1111	1111	1111	5555	1111
215	3333	1111	1111	1111	1111	3333	1111
216	2222	1111	1111	2222	1111	1111	1111
217	2222	1111	1111	2222	1111	1111	1111
218	2222	1111	1111	2222	1111	1111	1111
219	2222	1111	1111	2222	1111	1111	1111
220	4422	1111	4422	2222	1111	1111	1111
221	4422	1111	4422	2222	1111	1111	1111
222	4422	1111	4422	2222	1111	1111	1111
223	4422	1111	4422	2222	1111	1111	1111
224	4422	1111	4422	2222	1111	1111	1111
225	4422	1111	4422	2222	1111	1111	1111
226	4422	1111	4422	2222	1111	1111	1111
227	4422	1111	4422	2222	1111	1111	1111
228	4433	1111	4433	2222	1111	1111	1111
229	4433	1111	4433	2222	2222	1111	1111
230	4433	1111	4433	1111	2222	3333	1111
231	4433	1111	4433	1111	2222	3333	1111
232	5555	1111	4433	1111	2222	5555	1111
233	4433	1111	4432	1111	2222	3333	1111
234	5555	1111	4433	1111	1111	5555	1111
235	4433	1111	4433	1111	1111	1111	1111
236	4433	1111	4433	1111	1111	3333	1111
237	4433	1111	4433	1111	1111	1111	1111
238	4444	1111	4433	1111	1111	4444	1111
239	4444	1111	4433	1111	1111	4444	1111
240	4444	1111	4422	1111	1111	4444	1111
241	4444	1111	4422	1111	1111	4444	1111
242	4444	1111	4422	1111	2222	4444	1111
243	4444	1111	4432	1111	2222	4444	1111
244	4444	1111	4433	1111	2222	4444	1111
245	5544	1111	5533	1111	1111	4444	1111
246	5544	1111	5533	1111	1111	4444	1111
247	5544	1111	5532	1111	1111	4444	1111
248	5544	1111	5532	1111	1111	4444	1111
249	5555	1111	4432	1111	1111	5555	1111
250	5555	1111	4432	1111	1111	5555	1111
251	4432	1111	4432	1111	1111	1111	1111
252	4433	1111	4433	1111	1111	3333	1111
253	4433	1111	4433	1111	1111	3333	1111
254	4433	1111	4433	1111	1111	3333	1111
255	4433	1111	4433	1111	1111	3333	1111
256	4433	1111	4433	1111	1111	3333	1111
257	4433	1111	4433	1111	1111	1111	1111
258	4433	1111	4433	1111	1111	3333	1111
259	5555	1111	4433	1111	1111	5555	1111
260	5555	1111	4433	1111	1111	5555	1111
261	5555	1111	4433	1111	1111	5555	1111
262	5555	1111	4433	1111	1111	5555	1111
263	5555	1111	4433	1111	1111	5555	1111
264	5555	1111	4433	1111	1111	5555	1111
265	5555	1111	5533	1111	1111	5555	1111
266	5555	1111	5533	1111	1111	5555	1111
267	5555	1111	1111	1111	1111	5555	1111
268	2222	1111	1111	2222	1111	1111	1111
269	2222	1111	1111	2222	1111	1111	1111
270	2222	1111	1111	2222	1111	1111	1111
271	2222	1111	1111	2222	1111	1111	1111
272	4422	1111	4422	2222	1111	1111	1111
273	4422	1111	4422	2222	1111	1111	1111
274	4422	1111	4422	2222	1111	1111	1111
275	4422	1111	4422	2222	1111	1111	1111
276	4433	1111	4422	2222	1111	3333	1111
277	4433	1111	4422	2222	1111	3333	1111
278	4433	1111	4422	2222	1111	3333	1111
279	4422	1111	4422	2222	1111	1111	1111
280	4422	1111	4422	2222	1111	1111	1111
281	4432	1111	4432	2222	1111	1111	1111
282	4432	1111	4432	2222	2222	1111	1111
283	4432	1111	4432	1111	2222	1111	1111
284	4433	1111	4433	1111	2222	2222	1111
285	4433	1111	4433	1111	2222	3333	1111

Grid-Cell #	FINAL (Sp,Su,F,W)	HUMAN USE (Sp,Su,F,W)	BIRD (Sp,Su,F,W)	MAMMAL (Sp,Su,F,W)	FISH (Sp,Su,F,W)	HABITAT (Sp,Su,F,W)	INVERT (Sp,Su,F,W)
286	4433	1111	4433	1111	1111	3333	1111
287	4433	1111	4433	1111	1111	3333	1111
288	4433	1111	4433	1111	1111	3333	1111
289	5555	1111	4433	1111	1111	5555	1111
290	4433	1111	4433	1111	1111	1111	1111
291	4433	1111	4433	1111	1111	1111	1111
292	4433	1111	4433	1111	1111	3333	1111
293	4433	1111	4433	1111	1111	1111	1111
294	4433	1111	4433	1111	1111	1111	1111
295	4444	1111	4433	1111	1111	4444	1111
296	4444	1111	4422	1111	1111	4444	1111
297	4444	1111	4422	1111	1111	4444	1111
298	4444	1111	4422	1111	2222	4444	1111
299	4444	1111	4432	1111	2222	4444	1111
300	5544	1111	5533	1111	1111	4444	1111
301	5544	1111	5533	1111	1111	4444	1111
302	5544	1111	5533	1111	1111	4444	1111
303	5544	1111	5532	1111	1111	4444	1111
304	5544	1111	5533	1111	1111	4444	1111
305	5555	1111	5533	1111	1111	5555	1111
306	5555	1111	4432	1111	1111	5555	1111
307	5555	1111	4432	1111	1111	5555	1111
308	4433	1111	4433	1111	1111	3333	1111
309	4433	1111	4433	1111	1111	3333	1111
310	5555	1111	4433	1111	1111	5555	1111
311	5555	1111	4433	1111	2222	5555	1111
312	5555	1111	4433	1111	2222	5555	1111
313	5555	1111	4433	1111	1111	5555	1111
314	5555	1111	4433	1111	1111	5555	1111
315	5555	1111	4433	1111	1111	5555	1111
316	5555	1111	4433	1111	1111	5555	1111
317	5555	1111	4433	1111	1111	5555	1111
318	5555	1111	4433	1111	1111	5555	1111
319	5555	1111	4433	1111	1111	5555	1111
320	5555	1111	4433	1111	1111	5555	1111
321	5555	1111	4433	1111	1111	5555	1111
322	5555	1111	5533	1111	1111	5555	1111
323	4444	1111	1132	1111	1111	4444	1111
324	2222	1111	1111	2222	1111	1111	1111
325	2222	1111	1111	2222	1111	1111	1111
326	2222	1111	1111	2222	1111	1111	1111
327	2222	1111	1111	2222	1111	1111	1111
328	2222	1111	1111	2222	1111	1111	1111
329	4422	1111	4422	2222	1111	1111	1111
330	4433	2222	4422	2222	1111	3333	1111
331	4433	2222	4422	2222	1111	3333	1111
332	4433	2222	4422	2222	1111	3333	1111
333	4433	2222	4422	2222	1111	3333	1111
334	4444	4444	4433	1111	1111	3333	1111
335	4444	4444	4444	1111	1111	3333	1111
336	4444	4444	4444	2222	1111	3333	1111
337	4422	1111	4422	2222	1111	1111	1111
338	4422	1111	4422	2222	1111	1111	1111
339	4432	1111	4432	1111	1111	1111	1111
340	4432	1111	4432	1111	2222	1111	1111
341	4433	1111	4433	1111	2222	1111	1111
342	4433	1111	4433	1111	2222	1111	1111
343	4433	1111	4433	1111	1111	1111	1111
344	4433	1111	4433	1111	1111	1111	1111
345	4433	1111	4433	1111	1111	3333	1111
346	4433	1111	4433	1111	1111	1111	1111
347	4433	1111	4433	1111	1111	3333	1111
348	4433	1111	4433	1111	1111	3333	1111
349	4433	1111	4433	1111	1111	3333	1111
350	4433	1111	4433	1111	1111	3333	1111
351	4433	1111	4433	1111	1111	3333	1111
352	4433	1111	4433	1111	1111	3333	1111
353	4433	1111	4422	1111	1111	3333	1111
354	4444	1111	1111	1111	1111	4444	1111
355	4444	1111	1111	1111	1111	4444	1111
356	4444	1111	1111	1111	1111	4444	1111
357	4433	1111	4433	1111	1111	3333	1111

Grid-Cell #	FINAL (Sp,Su,F,W)	HUMAN USE (Sp,Su,F,W)	BIRD (Sp,Su,F,W)	MAMMAL (Sp,Su,F,W)	FISH (Sp,Su,F,W)	HABITAT (Sp,Su,F,W)	INVERT (Sp,Su,F,W)
358	5533	1111	5533	1111	1111	3333	1111
359	4433	1111	4433	1111	1111	3333	1111
360	4433	1111	4422	1111	1111	3333	1111
361	4444	1111	4422	1111	1111	4444	1111
362	5555	1111	4422	1111	1111	5555	1111
363	4433	1111	4422	1111	1111	3333	1111
364	5555	1111	4422	1111	1111	5555	1111
365	5555	1111	4433	1111	1111	5555	1111
366	5555	1111	4433	1111	1111	5555	1111
367	5555	1111	4433	1111	1111	5555	1111
368	5555	1111	4433	1111	2222	5555	1111
369	5555	1111	4433	1111	1111	5555	1111
370	5555	1111	4433	1111	1111	5555	1111
371	5555	1111	4433	1111	1111	5555	1111
372	5555	1111	4433	1111	1111	5555	1111
373	5555	1111	4433	1111	1111	5555	1111
374	5555	1111	4433	1111	1111	5555	1111
375	5555	1111	4433	1111	1111	5555	1111
376	5555	1111	4433	5555	1111	5555	1111
377	5555	1111	4433	5555	1111	5555	1111
378	5555	1111	4433	5555	1111	5555	1111
379	5555	1111	1111	1111	1111	5555	1111
380	5555	1111	5533	1111	1111	5555	1111
381	5555	1111	5533	1111	1111	5555	1111
382	2222	1111	1111	2222	1111	1111	1111
383	2222	1111	1111	2222	1111	1111	1111
384	2222	1111	1111	2222	1111	1111	1111
385	2222	1111	1111	2222	1111	1111	1111
386	4422	1111	4422	2222	1111	1111	1111
387	4422	2222	4422	2222	1111	1111	1111
388	4422	2222	4422	2222	1111	1111	1111
389	4422	2222	4422	2222	1111	1111	1111
390	4433	2222	4422	2222	1111	3333	1111
391	5555	4444	4433	2222	1111	5555	1111
392	5555	4444	4444	1111	1111	5555	1111
393	5555	4444	4444	1111	1111	5555	1111
394	4444	2222	4444	1111	1111	3333	1111
395	4422	2222	4422	1111	1111	1111	1111
396	4422	1111	4422	1111	1111	1111	1111
397	4432	1111	4432	1111	1111	1111	1111
398	4433	1111	4433	1111	1111	3333	1111
399	4433	1111	4433	1111	1111	1111	1111
400	4433	1111	4433	1111	1111	1111	1111
401	4433	1111	4433	1111	1111	1111	1111
402	4433	1111	4433	1111	1111	1111	1111
403	4433	1111	4433	1111	1111	3333	1111
404	4433	1111	4433	1111	1111	3333	1111
405	4433	1111	4433	1111	1111	3333	1111
406	4433	1111	4433	1111	1111	3333	1111
407	4433	1111	4433	1111	1111	3333	1111
408	4433	1111	4433	1111	1111	3333	1111
409	4433	1111	4433	1111	1111	3333	1111
410	3333	1111	1111	1111	1111	3333	1111
411	3333	1111	1111	1111	1111	3333	1111
412	1111	1111	1111	1111	1111	1111	1111
413	3333	1111	1111	1111	1111	3333	1111
414	3333	1111	1111	1111	1111	3333	1111
415	3333	1111	1111	1111	1111	3333	1111
416	4433	1111	4422	1111	1111	3333	1111
417	4433	1111	4422	1111	1111	3333	1111
418	4433	1111	4422	1111	1111	3333	1111
419	4444	1111	4422	1111	1111	4444	1111
420	5555	1111	4422	1111	1111	5555	1111
421	5555	1111	4422	1111	1111	5555	1111
422	5555	1111	4433	1111	1111	5555	1111
423	5555	1111	4433	1111	1111	5555	1111
424	5555	1111	4433	1111	1111	5555	1111
425	5555	1111	4433	1111	1111	5555	1111
426	5555	1111	4433	1111	1111	5555	1111
427	5555	1111	4433	1111	1111	5555	1111
428	5555	1111	4433	1111	1111	5555	1111
429	4433	1111	4433	1111	1111	1111	1111

Grid-Cell #	FINAL (Sp,Su,F,W)	HUMAN USE (Sp,Su,F,W)	BIRD (Sp,Su,F,W)	MAMMAL (Sp,Su,F,W)	FISH (Sp,Su,F,W)	HABITAT (Sp,Su,F,W)	INVERT (Sp,Su,F,W)
430	4444	4444	4433	1111	1111	1111	1111
431	5555	1111	4433	1111	1111	5555	1111
432	5555	1111	5533	1111	1111	5555	1111
433	5555	1111	4433	5555	1111	5555	1111
434	4433	1111	4433	1111	1111	3333	1111
435	5555	1111	1111	5555	1111	3333	1111
436	5555	1111	1111	5555	1111	5555	1111
437	5555	1111	5533	1111	1111	5555	1111
438	5555	1111	5533	1111	1111	5555	1111
439	5555	1111	5533	1111	1111	5555	1111
440	5555	1111	4432	1111	1111	5555	1111
441	4444	1111	1131	1111	1111	4444	1111
442	2222	1111	1111	2222	1111	1111	1111
443	2222	1111	1111	2222	1111	1111	1111
444	2222	1111	1111	2222	1111	1111	1111
445	2222	1111	1111	2222	1111	1111	1111
446	4422	1111	4422	2222	1111	1111	1111
447	4422	1111	4422	2222	1111	1111	1111
448	4422	1111	4422	2222	1111	1111	1111
449	4422	1111	4422	2222	1111	1111	1111
450	4422	1111	4422	2222	1111	1111	1111
451	4422	1111	4422	2222	1111	1111	1111
452	5555	4444	5544	2222	1111	5555	1111
453	5555	4444	5544	1111	2222	5555	1111
454	4444	2222	4444	1111	2222	4444	1111
455	4433	2222	4433	1111	1111	3333	1111
456	4422	2222	4422	1111	1111	1111	1111
457	4433	1111	4422	1111	1111	3333	1111
458	4433	1111	4433	1111	1111	3333	1111
459	4433	1111	4433	1111	1111	3333	1111
460	4433	1111	4433	1111	1111	3333	1111
461	4433	1111	4433	1111	1111	3333	1111
462	4433	1111	4433	1111	1111	3333	1111
463	4433	1111	4433	1111	1111	3333	1111
464	4433	1111	4433	1111	2222	3333	1111
465	4433	1111	4433	1111	2222	3333	1111
466	4433	1111	4433	1111	1111	1111	1111
467	4433	1111	4433	1111	1111	3333	1111
468	4433	1111	4433	1111	1111	3333	1111
469	4433	1111	4433	1111	1111	1111	1111
470	4433	1111	4433	1111	2222	1111	1111
471	4433	1111	4433	1111	2222	2222	1111
472	4433	1111	4433	1111	2222	1111	1111
473	4444	1111	1111	1111	1111	4444	1111
474	4444	1111	1111	1111	1111	4444	1111
475	4444	1111	1111	1111	1111	4444	1111
476	5555	1111	4422	1111	1111	5555	1111
477	5555	1111	4422	1111	1111	5555	1111
478	5555	1111	4422	1111	1111	5555	1111
479	5555	1111	4422	1111	1111	5555	1111
480	4444	1111	4422	1111	1111	4444	1111
481	4433	1111	4422	1111	1111	3333	1111
482	5555	1111	4433	1111	1111	5555	1111
483	5555	1111	4433	1111	1111	5555	1111
494	5555	1111	5533	1111	1111	5555	1111
485	5555	1111	4433	1111	1111	5555	1111
496	5555	1111	4433	1111	1111	5555	1111
487	5555	1111	5533	1111	1111	5555	1111
488	5555	1111	4433	1111	1111	5555	1111
489	4433	1111	4433	1111	1111	1111	1111
490	4433	1111	4433	1111	1111	1111	1111
491	4433	1111	4433	1111	1111	1111	1111
492	4433	1111	4433	1111	1111	1111	1111
493	5555	1111	4433	5555	1111	5555	1111
494	5555	1111	4433	5555	1111	5555	1111
495	5555	1111	1111	5555	1111	3333	1111
496	5555	1111	1122	5555	1111	5555	1111
497	5555	1111	5533	1111	1111	5555	1111
498	5555	1111	5533	1111	1111	5555	1111
499	5555	2222	5533	1111	1111	5555	1111
500	5555	1111	4432	1111	1111	5555	1111
501	2222	1111	1111	2222	1111	1111	1111

Grid-Cell #	FINAL (Sp,Su,F,W)	HUMAN USE (Sp,Su,F,W)	BIRD (Sp,Su,F,W)	MAMMAL (Sp,Su,F,W)	FISH (Sp,Su,F,W)	HABITAT (Sp,Su,F,W)	INVERT (Sp,Su,F,W)
502	2222	1111	1111	2222	1111	1111	1111
503	2222	1111	1111	2222	1111	1111	1111
504	2222	1111	1111	2222	1111	1111	1111
505	4422	1111	4422	2222	1111	1111	1111
506	4422	1111	4422	2222	1111	1111	1111
507	4422	1111	4422	2222	1111	1111	1111
508	4422	1111	4422	2222	1111	1111	1111
509	4422	1111	4422	2222	1111	1111	1111
510	4422	1111	4422	2222	1111	1111	1111
511	5544	4444	5544	2222	1111	2222	1111
512	5555	4444	5544	2222	2222	5555	1111
513	5555	4444	4433	1111	2222	5555	1111
514	5555	4444	4433	1111	1111	5555	1111
515	5555	4444	4433	1111	1111	5555	1111
516	4433	1111	4422	1111	1111	3333	1111
517	4433	1111	4433	1111	2222	3333	1111
518	5533	1111	5533	1111	2222	3333	1111
519	4433	1111	4433	1111	2222	3333	1111
520	4433	1111	4433	1111	2222	3333	1111
521	4433	1111	4433	1111	2222	3333	1111
522	4433	1111	4433	1111	2222	3333	1111
523	4433	1111	4433	1111	2222	3333	1111
524	4433	1111	4433	1111	2222	3333	1111
525	4433	1111	4433	1111	1111	1111	1111
526	4433	1111	4433	1111	1111	1111	1111
527	4433	1111	4433	1111	1111	1111	1111
528	4433	1111	4433	1111	2222	1111	1111
529	4444	1111	4433	1111	2222	4444	1111
530	5533	1111	5533	1111	2222	3333	1111
531	4444	1111	4433	1111	2222	4444	1111
532	1111	1111	1111	1111	1111	1111	1111
533	1111	1111	1111	1111	1111	1111	1111
534	4444	1111	1111	1111	1111	4444	1111
535	5555	1111	4422	1111	1111	5555	1111
536	5555	1111	4422	1111	1111	5555	1111
537	5555	1111	4422	1111	1111	5555	1111
538	5555	1111	4433	1111	1111	5555	1111
539	5555	1111	4433	1111	1111	5555	1111
540	5555	1111	4432	1111	1111	5555	1111
541	5555	1111	4433	1111	1111	5555	1111
542	5555	1111	4433	1111	1111	5555	1111
543	5555	1111	4433	1111	1111	5555	1111
544	5555	1111	4433	1111	1111	5555	1111
545	5555	1111	4433	1111	1111	5555	1111
546	4433	1111	4433	1111	1111	1111	1111
547	4433	1111	4433	1111	1111	1111	1111
548	4433	1111	4433	1111	1111	1111	1111
549	4433	1111	4433	1111	1111	1111	1111
550	4433	1111	4433	1111	1111	1111	1111
551	4433	1111	4433	1111	1111	1111	1111
552	4433	1111	4433	1111	1111	3333	1111
553	5555	1111	4433	1111	1111	5555	1111
554	5555	1111	4433	5555	1111	5555	1111
555	5555	1111	4433	5555	1111	5555	1111
556	5555	1111	4433	5555	1111	5555	1111
557	5555	1111	5533	5555	1111	5555	1111
558	5555	1111	5533	5555	1111	5555	1111
559	4444	1111	4432	1111	1111	4444	1111
560	2222	1111	1111	2222	1111	1111	1111
561	2222	1111	1111	2222	1111	1111	1111
562	2222	1111	1111	2222	1111	1111	1111
563	4422	1111	4422	2222	1111	1111	1111
564	4422	1111	4422	2222	1111	1111	1111
565	4422	1111	4422	2222	1111	1111	1111
566	4422	1111	4422	2222	1111	1111	1111
567	4422	1111	4422	2222	1111	1111	1111
568	4422	1111	4422	2222	1111	1111	1111
569	4422	2222	4422	2222	1111	1111	1111
570	5544	4444	5544	2222	1111	2222	1111
571	5555	4444	4433	1111	1111	5555	1111
572	5555	4444	4433	1111	1111	5555	1111
573	4444	4444	4422	1111	1111	4444	1111

Grid-Cell #	FINAL (Sp,Su,F,W)	HUMAN USE (Sp,Su,F,W)	BIRD (Sp,Su,F,W)	MAMMAL (Sp,Su,F,W)	FISH (Sp,Su,F,W)	HABITAT (Sp,Su,F,W)	INVERT (Sp,Su,F,W)
574	4444	4444	4422	1111	1111	3333	1111
575	4433	1111	4433	1111	2222	3333	1111
576	4433	1111	4433	1111	2222	3333	1111
577	4433	1111	4433	1111	2222	3333	1111
578	4433	1111	4433	1111	2222	3333	1111
579	4433	1111	4433	1111	2222	3333	1111
580	4433	1111	4433	1111	2222	3333	1111
581	4433	1111	4433	1111	2222	3333	1111
582	4433	1111	4433	1111	2222	3333	1111
583	4433	1111	4433	1111	2222	1111	1111
594	4433	1111	4433	1111	2222	1111	1111
585	4433	1111	4433	1111	2222	3333	1111
586	5555	1111	4433	1111	2222	5555	1111
587	5555	4444	4433	1111	1111	5555	1111
588	4433	1111	4433	1111	1111	3333	1111
589	5555	1111	4433	1111	1111	5555	1111
590	5555	1111	4433	1111	2222	5555	1111
591	4433	1111	4433	1111	1111	3333	1111
592	5555	1111	4433	1111	1111	5555	1111
593	5555	1111	4433	1111	1111	5555	1111
594	5555	1111	4433	1111	1111	5555	1111
595	5555	1111	4433	1111	1111	5555	1111
596	5555	1111	4433	1111	1111	5555	1111
597	5555	1111	4433	1111	1111	5555	1111
598	5555	1111	4433	1111	1111	5555	1111
599	5555	1111	4433	1111	1111	5555	1111
600	5555	1111	4433	1111	1111	5555	1111
601	5555	1111	5533	5555	1111	5555	1111
602	5555	1111	5533	1111	1111	5555	1111
603	5555	1111	4433	1111	1111	5555	1111
604	5555	1111	4433	1111	1111	5555	1111
605	5555	1111	5533	1111	1111	5555	1111
606	5555	1111	4433	1111	1111	5555	1111
607	4433	1111	4433	1111	1111	1111	1111
608	4433	1111	4433	1111	1111	1111	1111
609	4433	1111	4433	1111	1111	1111	1111
610	4433	1111	4433	1111	1111	1111	1111
611	4433	1111	4433	1111	1111	1111	1111
612	5555	4444	5533	1111	1111	5555	1111
613	5555	1111	4433	1111	1111	5555	1111
614	5555	1111	1133	5555	1111	5555	1111
615	5555	1111	1133	5555	1111	5555	1111
616	5555	1111	5533	5555	1111	5555	1111
617	5544	2222	5533	1111	1111	4444	1111
618	1131	1111	1131	1111	1111	1111	1111
619	2222	1111	1111	2222	1111	1111	1111
620	2222	1111	1111	2222	1111	1111	1111
621	4422	1111	4422	2222	1111	1111	1111
622	4422	1111	4422	2222	1111	1111	1111
623	4422	1111	4422	2222	1111	1111	1111
624	4422	1111	4422	2222	1111	1111	1111
625	4422	1111	4422	2222	1111	1111	1111
626	4422	1111	4422	2222	1111	1111	1111
627	4422	1111	4422	2222	1111	1111	1111
628	5544	4444	5544	2222	1111	2222	1111
629	5544	4444	5544	1111	1111	2222	1111
630	4444	4444	4422	1111	1111	1111	1111
631	4444	4444	4422	1111	1111	1111	1111
632	4444	4444	4422	1111	1111	3333	1111
633	5555	4444	4433	1111	1111	5555	1111
634	4444	1111	4433	1111	1111	4444	1111
635	4433	1111	4433	1111	1111	3333	1111
636	4433	1111	4433	1111	1111	3333	1111
637	4433	1111	4433	1111	1111	3333	1111
638	4444	4444	4433	1111	2222	3333	1111
639	4444	4444	4433	1111	2222	3333	1111
640	4444	4444	4433	1111	1111	3333	1111
641	5555	4444	4433	1111	1111	5555	1111
642	5555	4444	4433	1111	1111	5555	1111
643	4444	4444	4433	1111	1111	4444	1111
644	5555	4444	4433	1111	1111	5555	1111
645	5555	1111	4433	1111	1111	5555	1111

Grid-Cell #	FINAL (Sp,Su,F,W)	HUMAN USE (Sp,Su,F,W)	BIRD (Sp,Su,F,W)	MAMMAL (Sp,Su,F,W)	FISH (Sp,Su,F,W)	HABITAT (Sp,Su,F,W)	INVERT (Sp,Su,F,W)
646	5555	1111	5533	1111	1111	5555	1111
647	5555	1111	4433	1111	2222	5555	1111
648	5555	1111	4433	1111	2222	5555	1111
649	5555	1111	4433	1111	1111	5555	1111
650	5555	1111	4433	1111	1111	5555	1111
651	5555	1111	4433	1111	1111	5555	1111
652	5555	1111	4433	1111	1111	5555	1111
653	5555	1111	4433	1111	1111	5555	1111
654	5555	1111	4433	1111	1111	5555	1111
655	5555	1111	4433	1111	1111	5555	1111
656	5555	1111	4433	1111	1111	5555	1111
657	5555	1111	4433	1111	1111	5555	1111
658	5555	1111	5533	5555	1111	5555	1111
659	5555	1111	5533	5555	1111	5555	1111
660	5555	1111	4433	1111	1111	5555	1111
661	5555	1111	4433	1111	1111	5555	1111
662	4433	1111	4433	1111	1111	1111	1111
663	5555	4444	4433	1111	1111	5555	1111
664	5555	1111	4433	1111	1111	5555	1111
665	4433	1111	4433	1111	1111	1111	1111
666	4433	1111	4433	1111	1111	1111	1111
667	4433	1111	4433	1111	1111	1111	1111
668	4433	1111	4433	1111	1111	1111	1111
669	4433	1111	4433	1111	1111	1111	1111
670	5555	1111	4433	1111	1111	5555	1111
671	5555	1111	4433	1111	1111	5555	1111
672	3333	1111	1133	1111	1111	3333	1111
673	5555	1111	1133	5555	1111	5555	1111
674	5555	1111	1133	5555	1111	5555	1111
675	5555	1111	1111	5555	1111	5555	1111
676	1131	1111	1131	1111	1111	1111	1111
677	1111	1111	1111	1111	1111	1111	1111
678	4444	1111	4433	1111	1111	4444	1111
679	4444	1111	4433	1111	1111	4444	1111
680	2222	1111	1111	2222	1111	1111	1111
681	2222	1111	1111	2222	1111	1111	1111
682	2222	1111	1111	2222	1111	1111	1111
683	2222	1111	1111	2222	1111	1111	1111
684	2222	1111	1111	2222	1111	1111	1111
685	2222	1111	1111	2222	1111	1111	1111
686	2222	1111	1111	2222	1111	1111	1111
687	2222	2222	1111	2222	1111	1111	1111
688	5544	4444	5544	2222	1111	2222	1111
689	4444	4444	1111	1111	1111	1111	1111
690	4444	4444	1111	1111	1111	1111	1111
691	4422	1111	4422	1111	1111	1111	1111
692	5555	1111	4433	1111	1111	5555	1111
693	5555	1111	4433	1111	1111	5555	1111
694	5555	1111	4433	1111	1111	5555	1111
695	4433	1111	4433	1111	1111	3333	1111
696	4433	1111	4433	1111	1111	3333	1111
697	4444	4444	4433	1111	1111	4444	1111
698	4444	1111	4433	1111	1111	4444	1111
699	4433	1111	4433	1111	1111	1111	1111
700	4433	1111	4433	1111	1111	1111	1111
701	4433	1111	4433	1111	1111	1111	1111
702	4433	1111	4433	1111	1111	1111	1111
703	4433	1111	4433	1111	1111	1111	1111
704	4433	1111	4433	1111	1111	1111	1111
705	5533	1111	5533	1111	1111	1111	1111
706	5555	1111	4433	1111	1111	5555	1111
707	5555	1111	4433	1111	1111	5555	1111
708	5555	1111	4433	1111	1111	5555	1111
709	5555	1111	4433	1111	1111	5555	1111
710	5555	1111	4433	1111	1111	5555	1111
711	5555	1111	4433	1111	1111	5555	1111
712	5555	1111	4433	1111	1111	5555	1111
713	5555	1111	4433	1111	1111	5555	1111
714	5555	1111	4433	1111	1111	5555	1111
715	5555	1111	4433	1111	1111	5555	1111
716	5555	1111	5533	1111	1111	5555	1111
717	5555	1111	4433	1111	1111	5555	1111

Grid-Cell #	FINAL (Sp,Su,F,W)	HUMAN USE (Sp,Su,F,W)	BIRD (Sp,Su,F,W)	MAMMAL (Sp,Su,F,W)	FISH (Sp,Su,F,W)	HABITAT (Sp,Su,F,W)	INVERT (Sp,Su,F,W)
718	5555	4444	5533	5555	1111	5555	1111
719	5555	1111	4433	1111	1111	5555	1111
720	4433	1111	4433	1111	1111	1111	1111
721	4433	1111	4433	1111	1111	1111	1111
722	5555	1111	4433	1111	1111	5555	1111
723	5555	1111	4433	1111	1111	5555	1111
724	4433	1111	4433	1111	1111	1111	1111
725	4433	1111	4433	1111	1111	1111	1111
726	4433	1111	4433	1111	1111	1111	1111
727	4433	1111	4433	1111	1111	1111	1111
728	4433	1111	4433	1111	1111	1111	1111
729	1111	1111	1111	1111	1111	1111	1111
730	3333	1111	1133	1111	1111	3333	1111
731	5555	1111	1133	1111	1111	5555	1111
732	1133	1111	1133	1111	1111	1111	1111
733	5555	1111	1111	5555	1111	5555	1111
734	5555	1111	1111	5555	1111	5555	1111
735	5555	1111	1111	5555	1111	5555	1111
736	5555	1111	1111	1111	1111	5555	1111
737	1111	1111	1111	1111	1111	1111	1111
738	4433	1111	4433	1111	1111	2222	1111
739	4433	1111	4433	1111	1111	2222	1111
740	5555	1111	4433	1111	1111	5555	1111
741	5555	1111	5533	1111	1111	5555	1111
742	5555	1111	4433	1111	1111	5555	1111
743	4444	1111	4433	1111	1111	4444	1111
744	4444	1111	4433	1111	1111	4444	1111
745	4444	1111	4433	1111	1111	4444	1111
746	4444	1111	4433	1111	1111	4444	1111
747	4444	1111	4433	1111	1111	4444	1111
748	4444	1111	4433	1111	1111	4444	1111
749	4444	1111	4433	1111	1111	4444	1111
750	4433	1111	4433	1111	1111	1111	1111
751	4444	1111	4433	1111	1111	4444	1111
752	2222	1111	1111	2222	1111	1111	1111
753	2222	1111	1111	2222	1111	1111	1111
754	2222	1111	1111	2222	1111	1111	1111
755	2222	1111	1111	2222	1111	1111	1111
756	2222	1111	1111	2222	1111	1111	1111
757	2222	1111	1111	2222	1111	1111	1111
758	5544	4444	5544	2222	1111	2222	1111
759	5544	4444	5544	1111	1111	1111	1111
760	4444	4444	1144	1111	1111	1111	1111
761	4444	1111	4444	1111	1111	1111	1111
762	4422	1111	4422	1111	1111	1111	1111
763	5555	1111	4422	1111	1111	5555	1111
764	5555	1111	4422	1111	1111	5555	1111
765	4444	1111	4422	1111	1111	4444	1111
766	4444	1111	4432	1111	1111	4444	1111
767	4444	1111	4432	1111	1111	4444	1111
768	5555	4444	4432	1111	1111	5555	1111
769	5555	4444	4432	1111	1111	5555	1111
770	5555	1111	4433	1111	1111	5555	1111
771	5555	1111	5533	1111	1111	5555	1111
772	5533	1111	5533	1111	1111	1111	1111
773	5522	1111	5522	1111	1111	1111	1111
774	4433	1111	4433	1111	1111	1111	1111
775	4444	4444	4433	1111	1111	4444	1111
776	5555	1111	4433	1111	1111	5555	1111
777	5555	1111	4433	1111	1111	5555	1111
778	5555	1111	4433	1111	1111	5555	1111
779	5555	1111	4433	1111	1111	5555	1111
780	5555	1111	4433	1111	1111	5555	1111
781	5555	1111	4433	1111	1111	5555	1111
782	5555	1111	4433	1111	1111	5555	1111
783	5555	1111	4433	1111	1111	5555	1111
784	5555	1111	5533	1111	1111	5555	1111
785	5555	1111	5533	1111	1111	5555	1111
786	4433	1111	4433	1111	1111	1111	1111
787	5555	1111	4433	1111	1111	5555	1111
788	5555	1111	4433	1111	1111	5555	1111
789	4433	1111	4433	1111	1111	1111	1111

Grid-Cell #	FINAL (Sp,Su,F,W)	HUMAN USE (Sp,Su,F,W)	BIRD (Sp,Su,F,W)	MAMMAL (Sp,Su,F,W)	FISH (Sp,Su,F,W)	HABITAT (Sp,Su,F,W)	INVERT (Sp,Su,F,W)
790	4433	1111	4433	1111	1111	1111	1111
791	4433	1111	4433	1111	1111	1111	1111
792	5555	1111	4433	1111	1111	5555	1111
793	5555	1111	4433	1111	1111	5555	1111
794	4433	1111	4433	1111	1111	1111	1111
795	1111	1111	1111	1111	1111	1111	1111
796	4444	4444	1133	1111	1111	4444	1111
797	5555	1111	1133	1111	1111	5555	1111
798	4444	1111	1111	1111	1111	4444	1111
799	4444	1111	1111	1111	1111	4444	1111
800	5555	1111	1111	1111	1111	5555	1111
801	5555	1111	1111	1111	1111	5555	1111
802	5555	1111	4422	1111	1111	5555	1111
803	5555	1111	1111	1111	1111	5555	1111
804	1111	1111	1111	1111	1111	1111	1111
805	4433	1111	4433	1111	1111	1111	1111
806	4433	1111	4433	1111	1111	2222	1111
807	4433	1111	4433	1111	1111	2222	1111
808	4433	1111	4433	1111	1111	2222	1111
809	4444	1111	4433	1111	1111	4444	1111
810	5555	1111	4433	1111	1111	5555	1111
811	5555	1111	4433	1111	1111	5555	1111
812	5555	1111	4433	1111	1111	5555	1111
813	5555	1111	4433	1111	1111	5555	1111
814	5555	1111	4433	1111	1111	5555	1111
815	4433	1111	4433	1111	1111	2222	1111
816	4433	1111	4433	1111	1111	2222	1111
817	4433	1111	4433	1111	1111	2222	1111
818	4433	2222	4433	1111	1111	3333	1111
819	4444	1111	4433	1111	1111	4444	1111
820	4444	1111	4433	1111	1111	4444	1111
821	4444	1111	4433	1111	1111	4444	1111
822	4444	1111	4433	1111	1111	4444	1111
823	2222	1111	1111	2222	1111	1111	1111
824	2222	1111	1111	2222	1111	1111	1111
825	2222	1111	1111	2222	1111	1111	1111
826	2222	1111	1111	2222	1111	1111	1111
827	2222	1111	1111	2222	1111	1111	1111
828	2222	1111	1111	2222	1111	1111	1111
829	5544	2222	5544	2222	1111	2222	1111
830	5544	4444	5544	2222	1111	2222	1111
831	4444	4444	1144	1111	1111	1111	1111
832	4444	1111	4444	1111	1111	1111	1111
833	5555	1111	4422	1111	1111	5555	1111
834	5555	2222	4422	1111	1111	5555	1111
835	5555	1111	4422	1111	1111	5555	1111
936	5555	1111	4422	1111	1111	5555	1111
837	5555	1111	4432	1111	1111	5555	1111
838	5555	1111	4432	1111	1111	5555	1111
839	4444	1111	4432	1111	1111	4444	1111
840	5555	4444	4432	1111	1111	5555	1111
841	5555	1111	4433	1111	1111	5555	1111
842	5555	1111	4433	1111	1111	5555	1111
843	5533	1111	5533	1111	1111	1111	1111
844	5522	1111	5522	1111	1111	1111	1111
845	4422	1111	4422	1111	1111	1111	1111
846	5555	1111	4422	1111	1111	5555	1111
847	4444	1111	4422	1111	2222	4444	1111
848	5555	1111	4422	1111	1111	5555	1111
849	5555	1111	4433	1111	1111	5555	1111
850	4433	1111	4433	1111	1111	1111	1111
851	5555	1111	4433	1111	1111	5555	1111
852	4433	1111	4433	1111	1111	1111	1111
853	5555	1111	4433	1111	1111	5555	1111
854	5555	1111	4433	1111	1111	5555	1111
855	5555	2222	4433	1111	1111	5555	1111
856	4433	1111	4433	1111	1111	1111	1111
857	4433	1111	4433	1111	1111	1111	1111
858	4433	1111	4433	1111	1111	1111	1111
859	4433	1111	4433	1111	1111	1111	1111
860	4433	1111	4433	1111	1111	1111	1111
861	4433	1111	4433	1111	1111	1111	1111

Grid-Cell #	FINAL (Sp,Su,F,W)	HUMAN USE (Sp,Su,F,W)	BIRD (Sp,Su,F,W)	MAMMAL (Sp,Su,F,W)	FISH (Sp,Su,F,W)	HABITAT (Sp,Su,F,W)	INVERT (Sp,Su,F,W)
862	4433	1111	4433	1111	1111	1111	1111
863	4433	1111	4433	1111	1111	1111	1111
864	4433	1111	4433	1111	1111	1111	1111
865	4433	1111	4433	1111	1111	1111	1111
866	1111	1111	1111	1111	1111	1111	1111
867	1111	1111	1111	1111	1111	1111	1111
868	5555	1111	1111	1111	1111	5555	1111
869	5555	1111	4422	1111	1111	5555	1111
870	5555	1111	4422	1111	1111	5555	1111
871	4444	1111	1111	1111	1111	4444	1111
872	1111	1111	1111	1111	1111	1111	1111
873	5555	1111	4422	1111	1111	5555	1111
874	5555	1111	5533	1111	1111	5555	1111
875	5555	1111	1131	1111	1111	5555	1111
876	4433	1111	4433	1111	2222	1111	1111
877	4433	1111	4433	1111	1111	1111	1111
878	4444	1111	4433	1111	1111	4444	1111
879	4444	1111	4433	1111	1111	4444	1111
880	4444	1111	4433	1111	1111	4444	1111
881	4444	1111	4433	1111	1111	4444	1111
882	4433	1111	4433	1111	1111	1111	1111
883	4433	1111	4433	1111	1111	1111	1111
884	5555	1111	4433	1111	1111	5555	1111
885	5555	1111	4433	1111	1111	5555	1111
886	5555	1111	4433	1111	1111	5555	1111
887	5555	1111	4433	1111	1111	5555	1111
888	4444	1111	4433	1111	1111	4444	1111
889	4444	1111	4433	1111	1111	4444	1111
890	4444	1111	4433	1111	1111	4444	1111
891	5555	1111	5533	1111	1111	5555	1111
892	5555	1111	5533	1111	1111	5555	1111
893	5555	1111	5533	1111	1111	5555	1111
894	4444	1111	4433	1111	1111	4444	1111
895	2222	1111	1111	2222	1111	1111	1111
896	2222	1111	1111	2222	1111	1111	1111
897	2222	1111	1111	2222	1111	1111	1111
898	2222	1111	1111	2222	1111	1111	1111
899	2222	1111	1111	2222	1111	1111	1111
900	2244	1111	1144	2222	1111	1111	1111
901	5544	4444	5544	2222	1111	2222	1111
902	1144	1111	1144	1111	1111	1111	1111
903	4444	4444	4444	1111	1111	1111	1111
904	4444	4444	4422	1111	1111	4444	1111
905	4422	1111	4422	1111	1111	1111	1111
906	4422	1111	4422	1111	1111	1111	1111
907	4422	1111	4422	1111	1111	1111	1111
908	4422	2222	4422	1111	1111	1111	1111
909	5555	4444	4422	1111	1111	5555	1111
910	5555	1111	4422	1111	1111	5555	1111
911	4432	1111	4432	1111	1111	1111	1111
912	5555	1111	4432	1111	1111	5555	1111
913	5555	1111	4432	1111	1111	5555	1111
914	5555	1111	4422	1111	2222	5555	1111
915	4422	1111	4422	1111	1111	1111	1111
916	4422	1111	4422	1111	1111	1111	1111
917	4422	1111	4422	1111	1111	1111	1111
918	4444	1111	4422	1111	1111	4444	1111
919	5555	1111	4422	1111	1111	5555	1111
920	5555	1111	1111	1111	1111	5555	1111
921	4433	1111	4433	1111	1111	1111	1111
922	5533	1111	5533	1111	1111	1111	1111
923	4433	1111	4433	1111	1111	1111	1111
924	1111	1111	1111	1111	1111	1111	1111
925	1111	1111	1111	1111	1111	1111	1111
926	1111	1111	1111	1111	1111	1111	1111
927	1111	1111	1111	1111	1111	1111	1111
928	4433	1111	4433	1111	1111	1111	1111
929	4433	1111	4433	1111	1111	1111	1111
930	1111	1111	1111	1111	1111	1111	1111
931	1111	1111	1111	1111	1111	1111	1111
932	1111	1111	1111	1111	1111	1111	1111
933	5555	1111	1111	1111	1111	5555	1111

Grid-Cell #	FINAL (Sp,Su,F,W)	HUMAN USE (Sp,Su,F,W)	BIRD (Sp,Su,F,W)	MAMMAL (Sp,Su,F,W)	FISH (Sp,Su,F,W)	HABITAT (Sp,Su,F,W)	INVERT (Sp,Su,F,W)
934	5555	1111	4422	1111	1111	5555	1111
935	5555	1111	4422	1111	1111	5555	1111
936	4444	1111	1111	1111	1111	4444	1111
937	5555	1111	1111	5555	1111	1111	1111
938	5555	1111	5533	5555	1111	5555	1111
939	5555	1111	5533	1111	1111	5555	1111
940	4444	1111	4433	1111	2222	4444	1111
941	4444	1111	4433	1111	2222	4444	1111
942	4444	1111	4433	1111	1111	4444	1111
943	4444	1111	4433	1111	1111	4444	1111
944	4444	1111	4433	1111	1111	4444	1111
945	4444	1111	4433	1111	1111	4444	1111
946	4444	1111	4433	1111	1111	4444	1111
947	4444	1111	4433	1111	1111	4444	1111
948	4433	1111	4433	1111	1111	1111	1111
949	4433	1111	4433	1111	1111	1111	1111
950	4433	1111	4433	1111	1111	1111	1111
951	4444	1111	4433	1111	1111	4444	1111
952	4433	1111	4433	1111	1111	1111	1111
953	4433	1111	4433	1111	1111	1111	1111
954	4433	1111	4433	1111	1111	1111	1111
955	4433	1111	4433	1111	1111	1111	1111
956	4444	1111	4433	1111	1111	4444	1111
957	5555	1111	4433	1111	1111	5555	1111
958	5544	1111	5533	1111	1111	4444	1111
959	5555	1111	5533	1111	1111	5555	1111
960	4433	1111	4433	1111	1111	1111	1111
961	2222	1111	1111	2222	1111	1111	1111
962	2222	1111	1111	2222	1111	1111	1111
963	2222	1111	1111	2222	1111	1111	1111
964	2222	1111	1111	2222	1111	1111	1111
965	2222	1111	1111	2222	1111	1111	1111
966	2222	1111	1111	2222	1111	1111	1111
967	5544	4444	5544	2222	1111	2222	1111
968	5544	4444	5544	1111	1111	1111	1111
969	4422	1111	4422	1111	1111	1111	1111
970	5533	1111	5533	1111	1111	1111	1111
971	4422	1111	4422	1111	1111	1111	1111
972	4422	1111	4422	1111	1111	1111	1111
973	4422	1111	4422	1111	1111	1111	1111
974	5555	1111	4422	1111	1111	5555	1111
975	5555	1111	4422	1111	1111	5555	1111
976	4422	1111	4422	1111	1111	1111	1111
977	4422	1111	4422	1111	1111	1111	1111
978	5555	1111	4432	1111	1111	5555	1111
979	5555	1111	4432	1111	1111	5555	1111
980	5555	4444	4432	1111	2222	5555	1111
981	5555	1111	4422	1111	1111	5555	1111
982	5555	1111	4422	1111	1111	5555	1111
983	4422	1111	4422	1111	1111	1111	1111
984	4422	1111	4422	1111	1111	1111	1111
985	4422	1111	4422	1111	1111	1111	1111
986	5555	1111	1111	1111	1111	5555	1111
987	4444	1111	4433	1111	1111	4444	1111
988	4433	1111	4433	1111	1111	1111	1111
989	4433	1111	4433	1111	1111	1111	1111
990	1111	1111	1111	1111	1111	1111	1111
991	1111	1111	1111	1111	1111	1111	1111
992	1111	1111	1111	1111	1111	1111	1111
993	1111	1111	1111	1111	1111	1111	1111
994	4433	1111	4433	1111	1111	1111	1111
995	4433	1111	4433	1111	1111	1111	1111
996	1111	1111	1111	1111	1111	1111	1111
997	1111	1111	1111	1111	1111	1111	1111
998	1111	1111	1111	1111	1111	1111	1111
999	1111	1111	1111	1111	1111	1111	1111
1000	5555	1111	1111	1111	1111	5555	1111
1001	5555	1111	4422	1111	1111	5555	1111
1002	4444	1111	1111	1111	1111	4444	1111
1003	5555	1111	5533	5555	1111	5555	1111
1004	5555	1111	5533	5555	1111	5555	1111
1005	5555	1111	5533	1111	1111	5555	1111

Grid-Cell #	FINAL (Sp,Su,F,W)	HUMAN USE (Sp,Su,F,W)	BIRD (Sp,Su,F,W)	MAMMAL (Sp,Su,F,W)	FISH (Sp,Su,F,W)	HABITAT (Sp,Su,F,W)	INVERT (Sp,Su,F,W)
1006	5555	1111	4433	1111	2222	5555	1111
1007	4444	1111	4433	1111	2222	4444	1111
1008	4433	1111	4433	1111	2222	3333	1111
1009	4444	1111	4433	1111	1111	4444	1111
1010	4444	1111	4433	1111	1111	4444	1111
1011	4444	1111	4433	1111	1111	4444	1111
1012	4444	1111	4433	1111	1111	4444	1111
1013	5555	1111	4433	1111	1111	5555	1111
1014	4444	1111	4433	1111	1111	4444	1111
1015	4433	1111	4433	1111	1111	1111	1111
1016	4433	1111	4433	1111	1111	1111	1111
1017	4433	1111	4433	1111	1111	1111	1111
1018	4433	1111	4433	1111	1111	1111	1111
1019	5544	1111	5533	1111	1111	4444	1111
1020	5555	1111	4433	1111	1111	5555	1111
1021	4433	1111	4433	1111	1111	2222	1111
1022	4433	1111	4433	1111	1111	2222	1111
1023	4433	1111	4433	1111	1111	1111	1111
1024	2222	1111	1111	2222	1111	1111	1111
1025	2222	1111	1111	2222	1111	1111	1111
1026	2222	1111	1111	2222	1111	1111	1111
1027	2222	1111	1111	2222	1111	1111	1111
1028	2222	1111	1111	2222	1111	1111	1111
1029	2222	1111	1111	2222	1111	1111	1111
1030	2222	2222	1111	2222	1111	1111	1111
1031	5544	4444	5544	2222	1111	2222	1111
1032	4422	1111	4422	1111	1111	1111	1111
1033	4422	1111	4422	1111	1111	1111	1111
1034	4422	1111	4422	1111	1111	1111	1111
1035	4422	1111	4422	1111	1111	1111	1111
1036	4422	1111	4422	1111	1111	1111	1111
1037	5555	4444	4422	1111	1111	5555	1111
1038	5555	1111	4422	1111	1111	5555	1111
1039	4422	1111	4422	1111	1111	1111	1111
1040	4422	1111	4422	1111	1111	1111	1111
1041	4432	1111	4432	1111	1111	1111	1111
1042	5555	1111	4432	1111	1111	5555	1111
1043	4432	1111	4432	1111	1111	1111	1111
1044	5555	1111	4432	1111	1111	5555	1111
1045	5555	1111	4422	1111	1111	5555	1111
1046	4422	1111	4422	1111	1111	1111	1111
1047	4422	1111	4422	1111	1111	1111	1111
1048	5555	1111	1111	1111	1111	5555	1111
1049	5555	1111	1111	1111	1111	5555	1111
1050	5555	1111	1111	5555	1111	5555	1111
1051	5555	1111	1111	5555	1111	5555	1111
1052	5555	1111	1111	5555	1111	2222	1111
1053	5555	1111	1111	5555	1111	5555	1111
1054	5555	1111	1111	5555	1111	5555	1111
1055	5555	1111	4433	5555	2222	5555	1111
1056	4433	1111	4433	1111	2222	2222	1111
1057	4444	1111	4433	1111	2222	4444	1111
1058	4444	1111	4433	1111	1111	4444	1111
1059	4444	1111	4433	1111	1111	4444	1111
1060	4444	1111	4433	1111	1111	4444	1111
1061	5555	1111	4433	1111	1111	5555	1111
1062	5555	1111	5533	1111	1111	5555	1111
1063	4433	1111	4433	1111	1111	1111	1111
1064	4433	1111	4433	1111	1111	1111	1111
1065	4433	1111	4433	1111	1111	1111	1111
1066	4433	1111	4433	1111	1111	1111	1111
1067	4444	1111	4433	1111	1111	4444	1111
1068	5555	1111	4433	1111	1111	5555	1111
1069	5555	1111	4433	1111	1111	5555	1111
1070	4444	1111	4433	1111	1111	4444	1111
1071	4433	1111	4433	1111	1111	2222	1111
1072	2222	1111	1111	2222	1111	1111	1111
1073	2222	1111	1111	2222	1111	1111	1111
1074	2222	1111	1111	2222	1111	1111	1111
1075	2222	1111	1111	2222	1111	1111	1111
1076	2222	1111	1111	2222	1111	1111	1111
1077	2222	1111	1111	2222	1111	1111	1111

Grid-Cell #	FINAL (Sp,Su,F,W)	HUMAN USE (Sp,Su,F,W)	BIRD (Sp,Su,F,W)	MAMMAL (Sp,Su,F,W)	FISH (Sp,Su,F,W)	HABITAT (Sp,Su,F,W)	INVERT (Sp,Su,F,W)
1078	5544	2222	5544	2222	1111	2222	1111
1079	4422	1111	4422	1111	1111	1111	1111
1080	4422	1111	4422	1111	1111	1111	1111
1081	4422	1111	4422	1111	1111	1111	1111
1082	4422	1111	4422	1111	1111	1111	1111
1083	5555	1111	4422	1111	1111	5555	1111
1084	5555	1111	4422	1111	1111	5555	1111
1085	4422	1111	4422	1111	1111	1111	1111
1086	4422	1111	4422	1111	1111	1111	1111
1087	4422	1111	4422	1111	1111	1111	1111
1088	4444	1111	4432	1111	1111	4444	1111
1089	5555	1111	4432	1111	1111	5555	1111
1090	4432	1111	4432	1111	1111	1111	1111
1091	5555	1111	4422	1111	1111	5555	1111
1092	5555	1111	4422	1111	1111	5555	1111
1093	4422	1111	4422	1111	1111	1111	1111
1094	4422	1111	4422	1111	1111	1111	1111
1095	1111	1111	1111	1111	1111	1111	1111
1096	1111	1111	1111	1111	1111	1111	1111
1097	5555	1111	1111	1111	1111	5555	1111
1098	5555	4444	1111	1111	1111	5555	1111
1099	5555	1111	1111	5555	1111	4444	1111
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Grid-Cell #	FINAL (Sp,Su,F,W)	HUMAN USE (Sp,Su,F,W)	BIRD (Sp,Su,F,W)	MAMMAL (Sp,Su,F,W)	FISH (Sp,Su,F,W)	HABITAT (Sp,Su,F,W)	INVERT (Sp,Su,F,W)
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1220	5555	1111	4422	1111	2222	5555	1111
1221	5555	1111	4422	1111	2222	5555	1111

Grid-Cell #	FINAL (Sp,Su,F,W)	HUMAN USE (Sp,Su,F,W)	BIRD (Sp,Su,F,W)	MAMMAL (Sp,Su,F,W)	FISH (Sp,Su,F,W)	HABITAT (Sp,Su,F,W)	INVERT (Sp,Su,F,W)
1222	4422	1111	4422	1111	1111	1111	1111
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[Statutory Authority: Chapter 90.48 RCW. 92-10-005 (Order 91-13), § 173-183-920, filed 4/23/92, effective 5/24/92.]

Chapter 173-200 WAC

WATER QUALITY STANDARDS FOR GROUND WATERS OF THE STATE OF WASHINGTON

WAC

173-200-010 Introduction.
173-200-020 Definitions.
173-200-030 Antidegradation policy.
173-200-040 Criteria.
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173-200-070 Early warning value.
173-200-080 Evaluation.
173-200-090 Special protection areas.
173-200-100 Implementation and enforcement.

WAC 173-200-010 Introduction. (1) This chapter implements chapter 90.48 RCW, the Water Pollution Control Act and chapter 90.54 RCW, the Water Resources Act of 1971.

(2) This chapter applies to all ground waters of the state that occur in a saturated zone or stratum beneath the surface of land or below a surface water body.

(3) This chapter shall not apply to:

(a) Contaminant concentrations found in saturated soils where those contaminants are chemicals or nutrients that have been applied at agronomic rates for agricultural purpose if those contaminants will not cause pollution of any ground waters below the root zone.

(b) Contaminant concentrations found in saturated soils where those contaminants are constituents that have been applied at approved rates and under approved methods of land treatment if those contaminants will not cause pollution of any ground waters below the root zone.

(c) Clean up actions approved by the department under the Model Toxics Control Act, chapter 70.105D RCW, or approved by the United States Environmental Protection Agency under the Comprehensive Environmental Response Compensation and Liability Act, 42 U.S.C. 9601 et seq. Ground water cleanup standards for such sites shall be developed under WAC 173-340-720.

(4) The goal of this chapter is to maintain the highest quality of the state's ground waters and protect existing and future beneficial uses of the ground water through the reduction or elimination of the discharge of contaminants to the state's ground waters.

(5) To implement this goal, this chapter establishes ground water quality standards which, together with the state's technology-based treatment requirements, provide for the protection of the environment and human health and protection of existing and future beneficial uses of ground waters.

[Statutory Authority: RCW 90.48.035. 90-22-023, § 173-200-010, filed 10/31/90, effective 12/1/90.]

WAC 173-200-020 Definitions. As used in this chapter:

(1) "Activity" means any site, area, facility, structure, vehicle, installation, or discharge which may produce pollution.

(2) "Artificial ground water" means ground water that has been put in place through means, such as irrigation, other than natural recharge.

(3) "Background water quality" means the concentrations of chemical, physical, biological, or radiological constituents, or other characteristics in or of ground water at a particular point in time and upgradient of an activity that have not been affected by that activity.

(4) "Beneficial uses" means uses of waters of the state which include but are not limited to use for domestic, stock watering, industrial, commercial, agricultural, irrigation, mining, fish and wildlife maintenance and enhancement, recreation, generation of electric power and preservation of environmental and aesthetic values, and all other uses compatible with the enjoyment of the public waters of the state.

(5) "Best management practices" or "BMPs" mean schedules of activities, prohibitions of practices, maintenance of procedures, and other management practices, to prevent or reduce the pollution of ground waters of the state. BMPs also include treatment requirements, operating procedures and practices to control plant site runoff, spillage or leaks, sludge or water disposal, or drainage from raw material storage.

(6) "Carcinogen" means any substance or agent that produces or tends to produce cancer in humans. For implementation of this chapter, the term carcinogen will apply to all substances on the United States Environmental Protection Agency Integrated Risk Information System, IRIS data base, of A (known human) and B1 and B2 (probable human) carcinogens for which IRIS listed an oral slope factor.

(7) "Contaminant" means any chemical, physical, biological, or radiological substance that does not occur naturally in ground water or that occurs at concentrations greater than those in the natural levels.

(8) "Criteria" means numerical values or narrative standards that represent the maximum allowable contaminant concentrations in the ground water.

(9) "Department" means the Washington state department of ecology.

(10) "Early warning value" means a concentration set in accordance with WAC 173-200-070 that is a percentage of a ground water quality enforcement limit.

(11) "Enforcement limit" means the value assigned to any contaminant for the purposes of regulating that contaminant.

(12) "Ground water" means water in a saturated zone or stratum beneath the surface of land or below a surface water body.

(13) "Human-caused pollution" means pollution resulting from human activity.

(14) "Isolated ground water" means ground water fully separated from other ground waters by an impermeable layer of rock or strata.

(15) "Maximum contaminant level" or "MCL" means the maximum concentration of a contaminant in water established by the Environmental Protection Agency under the Federal Safe Drinking Water Act (42 U.S.C. 300f et seq.) and published in 40 C.F.R. 141 as presently promulgated or as subsequently amended or repromulgated.

(16) "Maximum contaminant level goal" or "MCLG" means the maximum concentration of a contaminant established by the Environmental Protection Agency under the Federal Safe Drinking Water Act (42 U.S.C. 300f et seq.) and published in 40 C.F.R. 141 as presently promulgated or subsequently amended or repromulgated, for which no known or anticipated adverse effects on human health occur including an adequate margin of safety.

(17) "Natural ground water quality" means ground water quality that was present before any human-caused pollution.

(18) "Naturally nonpotable ground water" means ground water that is unsuitable for drinking water because of natural ground water quality and for which current treatment methods are considered unreasonable and impractical.

(19) "Permit" means a department authorization, license, or equivalent control document issued to a facility, activity, or entity authorized to treat, store, dispose, or discharge materials or wastes. This includes, but is not limited to, state waste discharge permits issued pursuant to chapter 173-216 WAC, permits for dangerous waste management facilities issued pursuant to chapter 173-303 WAC, and permits for ground water withdrawal issued pursuant to chapter 90.44 RCW.

(20) "Person" means any political subdivision, government agency, municipality, industry, public or private corporation, partnership, association, firm, individual, or any other entity whatsoever.

(21) "Point of compliance" means the location, set in accordance with WAC 173-200-060, where the ground water quality enforcement limit shall not be exceeded.

(22) "Pollution" means such contamination, or other alteration of the physical, chemical or biological properties, of any waters of the state, including change in temperature, taste, color, turbidity, or odor of the waters, or such discharge of any liquid, gaseous, solid, radioactive, or other substance into any waters of the state as will or is likely to create a nuisance or render such waters harmful, detrimental or injurious to the public health, safety or welfare, or to domestic, commercial, industrial, agricultural, recreational, or other legitimate beneficial uses, or to livestock, wild animals, birds, fish, or other aquatic life.

(23) "Practical quantification level" or "PQL" means the lowest concentration of a substance that can be reliably achieved within specific limits of precision, accuracy, representativeness, completeness, and comparability during routine laboratory operating conditions.

(24) "Root zone" means the zone that extends from the surface of the soil to the depth of the lowest root and is specific to a species of plant, group of plants, or crop.

(25) "Saturated zone" means the zone below the water table in which all interstices are filled with water.

(26) "Seasonal ground water" means ground water that exists for a temporary period of the year and is usually associated with a particular activity or phenomenon.

(27) "State waste discharge permit" means a permit issued in accordance with the state waste discharge permit program, chapter 173-216 WAC.

[Statutory Authority: RCW 90.48.035. 90-22-023, § 173-200-020, filed 10/31/90, effective 12/1/90.]

WAC 173-200-030 Antidegradation policy. (1) The antidegradation policy of the state of Washington, is generally guided by chapter 90.48 RCW, the Water Pollution Control Act, and chapter 90.54 RCW, the Water Resources Act of 1971. The goal of this policy is to ensure the purity of the state's ground waters and to protect the natural environment.

(2) The antidegradation policy is as follows:

(a) Existing and future beneficial uses shall be maintained and protected and degradation of ground water quality that would interfere with or become injurious to beneficial uses shall not be allowed.

(b) Degradation shall not be allowed of high quality ground waters constituting an outstanding national or state resource, such as waters of national and state parks and wildlife refuges, and waters of exceptional recreational or ecological significance.

(c) Whenever ground waters are of a higher quality than the criteria assigned for said waters, the existing water quality shall be protected, and contaminants that will reduce the existing quality thereof shall not be allowed to enter such waters, except in those instances where it can be demonstrated to the department's satisfaction that:

(i) An overriding consideration of the public interest will be served; and

(ii) All contaminants proposed for entry into said ground waters shall be provided with all known, available, and reasonable methods of prevention, control, and treatment prior to entry.

[Statutory Authority: RCW 90.48.035. 90-22-023, § 173-200-030, filed 10/31/90, effective 12/1/90.]

WAC 173-200-040 Criteria. (1) Ground waters in the state of Washington support many different beneficial uses. The purpose of these criteria is to establish maximum contaminant concentrations for the protection of a variety of beneficial uses of Washington's ground water.

(a) Drinking water is the beneficial use generally requiring the highest quality of ground water.

(b) Providing protection to the level of drinking water standards will protect a great variety of existing and future beneficial uses.

(c) Some ground waters of the state support environmental systems with existing and future beneficial uses requiring more stringent protection than that provided by human health based criteria. These ground waters and dependent uses will be protected by either or both of the following:

(i) Designation of an area and its associated ground water as a special protection area in accordance with WAC 173-200-090.

(ii) Establishment of enforcement limits as close to the natural ground water quality as possible for activities that may adversely affect those ground waters in accordance with WAC 173-200-050.

(d) The use of criteria based on drinking water quality shall in no way be interpreted to mean that all ground waters are used for drinking water or that all ground waters are presently suitable for drinking water.

(2) The following criteria shall apply to all ground waters in the state of Washington:

(a) Ground water concentrations shall not exceed the criteria listed in Table 1, except as described in WAC 173-200-050 (3)(b).

(b) For the primary and secondary contaminants and radionuclides listed in Table 1, the criteria shall be the most stringent concentration of the following and those listed in Table 1:

(i) Maximum contaminant level goals;

(ii) Maximum contaminant levels; and

(iii) State maximum contaminant levels published in chapter 248-54 WAC as presently promulgated or subsequently amended or repromulgated.

The criteria for primary and secondary contaminants and radionuclide contaminants in Table 1 shall be amended as the federal and state rules are amended and without amendment of this chapter.

(c) For carcinogens listed in Table 1, the criteria are the concentrations that are anticipated to result in a total incremental human cancer risk of less than 1 in 1,000,000, and were estimated using the following equation and standard exposure assumptions:

$$\text{Ground Water Criteria (ug/l)} = \frac{\text{RISK x BW x LIFE x UCF}}{\text{CPF x DWIR x DUR}}$$

Where:

RISK = Human cancer risk level (1 in 1,000,000)
BW = Body Weight (70 kg)
LIFE = Lifetime (70 years)
UCF = Unit conversion factor (1,000 ug/mg)
CPF = Cancer potency factor as published in the IRIS data base (1/mg/kg/day)
DWIR = Drinking water ingestion rate (2.0 liters/day)
DUR = Duration of exposure (30 years)

For volatile carcinogens, inhalation exposure from showering was incorporated into the criteria by doubling the drinking water ingestion rate.

(3) For contaminants for which no numeric criteria have been established, enforcement limits shall be established in accordance with WAC 173-200-050.

TABLE 1
GROUND WATER QUALITY CRITERIA

CONTAMINANT		CRITERION
I. PRIMARY AND SECONDARY CONTAMINANTS AND RADIONUCLIDES		
A. PRIMARY CONTAMINANTS		
Barium*	1.0	milligrams/liter (mg/l)
Cadmium*	0.01	mg/l
Chromium*	0.05	mg/l
Lead*	0.05	mg/l
Mercury*	0.002	mg/l
Selenium*	0.01	mg/l
Silver*	0.05	mg/l
Fluoride	4	mg/l
Nitrate (as N)	10	mg/l
Endrin	0.0002	mg/l
Methoxychlor	0.1	mg/l
1,1,1-Trichloroethane	0.20	mg/l
2-4 D	0.10	mg/l
2,4,5-TP Silvex	0.01	mg/l
Total Coliform Bacteria	1/100	ml
B. SECONDARY CONTAMINANTS		
Copper*	1.0	mg/l
Iron*	0.30	mg/l
Manganese*	0.05	mg/l
Zinc*	5.0	mg/l
Chloride	250	mg/l
Sulfate	250	mg/l
Total Dissolved Solids	500	mg/l
Foaming Agents	0.5	mg/l

CONTAMINANT	CRITERION	
pH	6.5-8.5	
Corrosivity	noncorrosive	
Color	15 color units	
Odor	3 threshold odor units	
C. RADIONUCLIDES		
Gross Alpha Particle Activity	15	pico Curie/ liter (pCi/1)
Gross Beta Particle Radioactivity		
Gross Beta Activity	50	pCi/l
Tritium	20,000	pCi/l
Strontium-90	8	pCi/l
Radium 226 & 228	5	pCi/1
Radium -226	3	pCi/1
II. CARCINOGENS		
Acrylamide	0.02	micro-grams/ liter ug/1
Acrylonitrile	0.07	ug/1
Aldrin	0.005	ug/1
Aniline	14	ug/1
Aramite	3	ug/1
Arsenic*	0.05	(ug/1)
Azobenzene	0.7	ug/1
Benzene	1.0	ug/1
Benzidine	0.0004	ug/1
Benzo(a)pyrene	0.008	ug/1
Benzotrichloride	0.007	ug/1
Benzyl chloride	0.5	ug/1
Bis(chloroethyl)ether	0.07	ug/1
Bis(chloromethyl)ether	0.0004	ug/1
Bis(2-ethylhexyl) phthalate	6.0	ug/1
Bromodichloromethane	0.3	ug/1
Bromoform	5	ug/1
Carbazole	5	ug/1
Carbon tetrachloride	0.3	ug/1
Chlordane	0.06	ug/1
Chlorodibromomethane	0.5	ug/1
Chloroform	7.0	ug/1
4 Chloro-2-methyl aniline	0.1	ug/1
4 Chloro-2-methyl analine hydrochloride	0.2	ug/1
o-Chloronitrobenzene	3	ug/1
p-Chloronitrobenzene	5	ug/1
Chlorthalonil	30	ug/1
Diallate	1	ug/1
DDT (includes DDE and DDD)	0.3	ug/1
1,2 Dibromoethane	0.001	ug/1
1,4 Dichlorobenzene	4	ug/1
3,3' Dichlorobenzidine	0.2	ug/1
1,1 Dichloroethane	1.0	ug/1
1,2 Dichloroethane (ethylene chloride)	0.5	ug/1
1,2 Dichloropropane	0.6	ug/1
1,3 Dichloropropene	0.2	ug/1
Dichlorvos	0.3	ug/1
Dieldrin	0.005	ug/1
3,3' Dimethoxybenzidine	6	ug/1
3,3 Dimethylbenzidine	0.007	
1,2 Dimethylhydrazine	60	ug/1
2,4 Dinitrotoluene	0.1	ug/1
2,6 Dinitrotoluene	0.1	ug/1
1,4 Dioxane	7.0	ug/1
1,2 Diphenylhydrazine	0.09	ug/1
Direct Black 38	0.009	ug/1
Direct Blue 6	0.009	ug/1
Direct Brown 95	0.009	ug/1
Epichlorohydrin	8	ug/1
Ethyl acrylate	2	ug/1
Ethylene dibromide	0.001	ug/1
Ethylene thiourea	2	ug/1
Folpet	20	ug/1
Furazolidone	0.02	ug/1
Furium	0.002	ug/1
Furmecyclox	3	ug/1
Heptachlor	0.02	ug/1
Heptachlor Epoxide	0.009	ug/1
Hexachlorobenzene	0.05	ug/1
Hexachlorocyclohexane (alpha)	0.001	ug/1
Hexachlorocyclohexane (technical)	0.05	ug/1
Hexachlorodibenzo-p-dioxin, mix	0.00001	ug/1
Hydrazine/Hydrazine sulfate	0.03	ug/1
Lindane	0.06	ug/1
2 Methoxy-5-nitroaniline	2	ug/1
2 Methylaniline	0.2	ug/1
2 Methylaniline hydrochloride	0.5	ug/1
4,4' Methylene bis(N,N'-dimethyl) aniline	2	ug/1
Methylene chloride (dichloromethane)	5	ug/1
Mirex	0.05	ug/1
Nitrofurazone	0.06	ug/1
N-Nitrosodiethanolamine	0.03	ug/1
N-Nitrosodiethylamine	0.0005	ug/1
N-Nitrosodimethylamine	0.002	ug/1
N-Nitrosodiphenylamine	17	ug/1
N-Nitroso-di-n-propylamine	0.01	ug/1
N-Nitrosopyrrolidine	0.04	ug/1
N-Nitroso-di-n-butylamine	0.02	ug/1
N-Nitroso-N-methylethylamine	0.004	ug/1
PAH	0.01	ug/1
PBBs	0.01	ug/1
PCBs	0.01	ug/1
o-Phenylenediamine	0.005	ug/1
Propylene oxide	0.01	ug/1
2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.0000006	ug/1
Tetrachloroethylene (perchloroethylene)	0.8	ug/1
p,α,α,α-Tetrachlorotoluene	0.004	ug/1
2,4 Toluenediamine	0.002	ug/1
o-Toluidine	0.2	ug/1
Toxaphene	0.08	ug/1
Trichloroethylene	3	ug/1
2,4,6-Trichlorophenol	4	ug/1
Trimethyl phosphate	2	ug/1
Vinyl chloride	0.02	ug/1

*metals are measured as total metals

[Statutory Authority: RCW 90.48.035. 90-22-023, § 173-200-040, filed 10/31/90, effective 12/1/90.]

WAC 173-200-050 Enforcement limit. (1) An enforcement limit is a value assigned to any contaminant for the purposes of regulating that contaminant to protect existing ground water quality and to prevent ground water pollution.

(2) Enforcement limits shall be defined on a case-by-case basis and shall be met at the point of compliance as defined in WAC 173-200-060. When the point of compliance is established at or in close proximity to the property boundary, enforcement limits shall be established sufficiently below criteria to provide an adequate margin of safety to ensure pollution does not extend beyond the property boundary.

(3) All enforcement limits shall, at a minimum, be based on all known, available, and reasonable methods of prevention, control, and treatment.

(a) The department shall consider all of the following in establishing enforcement limits:

(i) The antidegradation policy;

(ii) Establishment of an enforcement limit as near the natural ground water quality as practical;

(iii) Overall protection of human health and the environment;

(iv) Whether the potentially affected area has been designated as a special protection area;

(v) Protection of existing and future beneficial uses;

(vi) Effects of the presence of multiple chemicals, multiple exposure pathways in accordance with subsection (5) of this section, and toxicity of individual contaminants;

(vii) Federal, state, tribal, and local land use plans, policies, or ordinances including wellhead protection programs;

(viii) Pollution of other media such as soils or surface waters; and

(ix) Any other considerations the department deems pertinent to achieve the objectives of this chapter.

(b) Where a criterion is established for a given contaminant, the enforcement limit shall not exceed the criterion except as follows:

(i) When the natural ground water quality for a contaminant exceeds the criterion, the enforcement limit for that contaminant shall be equal to the natural level.

(ii) When the background ground water quality exceeds a criterion, the enforcement limit at the point of compliance shall not exceed the background ground water quality for that criterion. Enforcement limits based on elevated background ground water quality shall in no way be construed to allow continued pollution of the receiving ground water.

(iii) When a criterion is less than the practical quantification level, the enforcement limit shall be established in an alternate location to provide a realistic estimate that the criterion shall not be exceeded in the ground water. Evaluation for such enforcement limits shall be performed in accordance with WAC 173-200-080(5).

(iv) When naturally nonpotable ground water exceeds a secondary contaminant criterion, an enforcement limit for a secondary contaminant may exceed a criterion when it can be demonstrated to the department's satisfaction that:

(A) The environment is protected;

(B) Human health is protected in consultation with the Washington state department of health;

(C) Existing and future beneficial uses are not harmed; and

(D) All known, available, and reasonable methods of prevention, control, and treatment will not result in concentrations less than the secondary contaminant criteria.

(v) Enforcement limits may exceed criteria in isolated artificial or seasonal ground waters when all of the following conditions exist:

(A) The isolated artificial or seasonal ground waters are of insufficient quantity for use as a drinking water source;

(B) Established enforcement limits will not cause harm to existing and future beneficial uses including support of seasonal wetlands;

(C) Accumulation of contaminants will not cause adverse acute or chronic effects to human health as determined in consultation with the Washington state department of health;

(D) Accumulation of contaminants will not cause adverse acute or chronic effects to the environment.

(vi) In rare circumstances the department may allow an enforcement limit to exceed a criterion for an activity for a period not to exceed five years without reconsideration of the evidence presented in subitems (A), (B), and (C) of this subdivision, and if all of the following conditions are met:

(A) The permit holder or responsible person demonstrates to the department's satisfaction that an enforcement limit that exceeds a criterion is necessary to provide greater benefit to the environment as a whole and to protect other media such as air, surface water, soil, or sediments;

(B) The activity has been demonstrated to be in the overriding public interest of human health and the environment;

(C) The department selects, from a variety of control technologies available for reducing and eliminating contamination from each potentially affected media, the technologies that minimize impacts to all affected media; and

(D) The action has been approved by the director of the department or his/her designee.

(4) Where a criterion is not established for a contaminant, the enforcement limit in ground water shall not exceed the practical quantification level except:

(a) Where there is evidence that a lower concentration would better protect human health and the environment (based on published health advisories, risk assessments, and other available information), the department shall establish a more stringent enforcement limit;

(b) If clear and convincing evidence can be provided to the department that an alternative concentration will provide protection to human health and the environment, the department may establish an enforcement limit higher than the practical quantification level.

Protection of human health shall be determined in consultation with the Washington state department of health.

(5) For multiple contaminants and multiple routes of exposure, enforcement limits shall be addressed as follows:

(a) Estimated doses of individual contaminants from one or more routes of exposure are assumed to be additive unless evidence is available to suggest otherwise.

(b) Adverse effects of multiple contaminants with similar types of toxic responses are assumed to be additive unless evidence is available to suggest otherwise.

(c) Human cancer risks associated with multiple carcinogens are assumed to be additive unless evidence is available to suggest otherwise and shall not exceed a total incremental human cancer risk of 1 in 1,000,000.

(6) The enforcement limit for a specific activity may be established through, but not limited to the following mechanisms: A state administrative rule, a state waste discharge permit, other department permit, or administrative order.

(7) The ground water quality at the point of compliance for an activity may temporarily exceed an enforcement limit while the activity is under an enforceable schedule of compliance.

[Statutory Authority: RCW 90.48.035. 90-22-023, § 173-200-050, filed 10/31/90, effective 12/1/90.]

WAC 173-200-060 Point of compliance. (1) The point of compliance is the location where the enforcement limit, set in accordance with WAC 173-200-050, shall be measured and shall not be exceeded.

(a) The department shall establish the point of compliance for an activity. The point of compliance shall be established in the ground water as near the source as technically, hydrogeologically, and geographically feasible.

(b) Compliance with the enforcement limits shall be maintained throughout the site from the uppermost level of the saturated zone extending vertically to the lowest depth that could potentially be affected by an activity.

(2) An alternative point of compliance, established at a location some distance from the source up to but not exceeding the property boundary, may be approved by the department as follows:

(a) An alternative point of compliance may be approved in the following situations:

(i) When all known, available, and reasonable methods of prevention, control, and treatment result in an exceedance of the criteria at the point of compliance.

(ii) When a point of compliance is defined in another state administrative rule including, but not limited to, Minimum functional standards for solid waste handling (chapter 173-304 WAC), Dangerous waste regulations (chapter 173-303 WAC), and Uranium and/or thorium mill operation and stabilization of mill tailing piles (chapter 402-52 WAC).

(b) In determining an alternative point of compliance, the department shall consider, at a minimum, the following factors:

(i) Effectiveness of all known, available, and reasonable methods of prevention, control, and treatment;

(ii) The contaminant volume, type, mobility, and characteristics;

(iii) Design and life span of the activity;

(iv) Existing and anticipated land and ground water uses; and

(v) Remedial options if an enforcement level is exceeded at the point of compliance.

(3) The department recognizes that evaluation of the impact of an activity at the designated point of compliance may be impractical, and the department may allow evaluation of that activity at some other point, in accordance with WAC 173-200-100 and 173-200-080(5).

[Statutory Authority: RCW 90.48.035. 90-22-023, § 173-200-060, filed 10/31/90, effective 12/1/90.]

WAC 173-200-070 Early warning value. (1) The purpose of an early warning value is to provide early detection of increasing contaminant concentrations that may approach or exceed enforcement limits.

(2) Whenever an enforcement limit is established above background ground water quality, an early warning value may be established, as appropriate.

(3) An early warning value shall be required when an alternative point of compliance is established unless technical constraints would prohibit establishment of an early warning value.

(4) An early warning value shall be established as a percentage of the enforcement limit upon consideration by the department of factors including, but not limited to, the following:

(a) The enforcement limit relative to background ground water quality;

(b) The availability, reliability, and reasonableness of analytical methods;

(c) The chemical, physical, and biological characteristics of the contaminants;

(d) The reliability of all known, available, and reasonable methods of prevention, control, and treatment;

(e) The anticipated increases in contaminant levels at the point of compliance; and

(f) The potential harm to existing and future beneficial uses.

(5) It shall not be considered a violation of these rules when contaminants are detected in concentrations exceeding an early warning value, but not exceeding an enforcement limit, unless there is failure to notify the department or respond as required in accordance with subsection (6) of this section.

(6) The following procedures apply when a contaminant is detected at a point of compliance or an alternative point of compliance and an early warning value is attained or exceeded.

(a) The permit holder or responsible person shall notify the department, in writing, within ten calendar days from detection of the early warning value, that the early warning value has been attained or exceeded. The notification shall contain, at a minimum, the following information:

(i) The concentrations of contaminants that attained or exceeded early warning values;

(ii) Concentrations of other contaminants monitored;

(iii) The location(s) and date(s) sampled; and

(iv) Concentrations of contaminants determined during previous sampling events.

(b) When notification is received, the department may require the permit holder or responsible person to perform one or more of the following:

(i) Take no action.

(ii) Resample to verify results.

(iii) Increase monitoring or modify the monitoring plan or evaluation procedures.

(iv) Develop and implement a trend analysis to determine the likelihood of exceeding the enforcement limit.

(v) Prepare and submit a report documenting the changes in ground water quality and discuss and propose alternative methods of operation that will reduce impacts to ground water.

(vi) Take such actions as the department deems necessary, if the department determines that there is a likelihood of exceeding an enforcement limit at the point of compliance.

[Statutory Authority: RCW 90.48.035. 90-22-023, § 173-200-070, filed 10/31/90, effective 12/1/90.]

WAC 173-200-080 Evaluation. (1) The purpose of this section is to establish minimum requirements for evaluating the impacts of an activity on the ground water quality to determine compliance with this chapter.

(2) If the department determines a potential to pollute the ground water exists, the department shall request a permit holder or responsible person to prepare and submit for departmental approval a ground water quality evaluation program for its activity. Each evaluation program shall be based on soil and hydrogeologic characteristics and be capable of

assessing impacts on ground water at the point of compliance.

(3) A ground water evaluation program approved by the department may include, but not be limited to, any of the following:

(a) Ground water monitoring for a specific activity;

(b) Ground water monitoring at selected sites for a group of activities;

(c) Monitoring of the vadose zone;

(d) Evaluation and monitoring of effluent quality;

(e) Evaluation within a treatment process;

(f) Evaluation of management practices.

(4) In the evaluation program the permit holder or responsible person shall include information on the following:

(a) The chemical, physical, and biological characteristics of the contaminants;

(b) The availability and adequacy of analytical methods;

(c) The complexity and capability of assessing the hydrogeologic system;

(d) The reliability of all known, available, and reasonable methods of prevention, control, and treatment;

(e) The location of the point or points of compliance or alternative point of compliance; and

(f) Such other information that the department deems necessary to achieve the objectives of this chapter.

(5) When it is impractical to evaluate the impact of an activity at the designated point of compliance, for example when a criterion is less than the practical quantification limit, evaluation shall be designed and performed at an alternate location to provide a realistic estimate of conditions in the ground water at a point of compliance.

(6) These evaluation requirements pertain to activities that are not already covered by state regulation which have specific monitoring requirements such as chapter 173-303 WAC, Dangerous waste regulations, chapter 173-304 WAC, Minimum functional standards for solid waste handling, and chapter 402-52 WAC, Uranium and/or thorium mill operation and stabilization of mill tailing piles.

(7) For those activities for which the department has not issued permits and that have the potential to pollute the ground water, evaluation shall be conducted according to the following:

(a) Evaluation procedures shall be included in department guidelines, policies, and best management practices to ensure that an adequate determination of compliance with this chapter can be made;

(b) For those activities regulated by other agencies but not regulated by department rule, the department will pursue evaluation of the activity through a memorandum of understanding with the regulating agency.

[Statutory Authority: RCW 90.48.035. 90-22-023, § 173-200-080, filed 10/31/90, effective 12/1/90.]

WAC 173-200-090 Special protection areas. (1) The purpose of a special protection area is to identify and designate ground waters that require special consideration or increased protection because of one or more unique characteristics.

(2) The unique characteristics of a special protection area shall be considered by the department when regulating activities, developing regulations, guidelines, and policies, and when prioritizing department resources for ground water quality protection programs.

(3) The characteristics to guide designation of a special protection area shall include, but not be limited to, the following:

(a) Ground waters that support a beneficial use or an ecological system requiring more stringent criteria than drinking water standards;

(b) Ground waters, including, but not limited to, recharge areas and wellhead protection areas, that are vulnerable to pollution because of hydrogeologic characteristics; and

(c) Sole source aquifer status by federal designation.

(4) Special protection areas may be proposed for designation at any time by the department upon its own initiative or at the request of a federal agency, another state agency, an Indian tribe, or local government.

(a) The requestor of designation shall provide sufficient information for the department to determine if the proposed designation is in the best interest of the public. This information shall include, but not be limited to:

(i) A rationale for the proposed designation;

(ii) Supporting data for the proposed designation;

(iii) A description of the proposed area including geographic and hydrologic boundaries;

(iv) Documentation of coordination with affected state and local agencies, tribes, and water user groups; and

(v) Such other information as the department deems necessary.

(b) In coordination with the department, the initiator of the request for designation shall hold at least one public meeting and take written comment for the purpose of receiving comments from the public, affected local, state and federal agencies, tribes, and other persons. Documentation of the public review process and comments received shall be submitted to the department.

(c) The department shall review the request for designation, provide written notification to all affected local, state and federal governments, and tribes, and hold at least one public hearing within the county or counties containing the proposed special protection area.

(5) The department shall designate said ground waters as a special protection area if the department determines:

(a) The special protection area contains one or more of the characteristics described in subsection (2) of this section; and

(b) Such a designation is in the public interest.

[Statutory Authority: RCW 90.48.035. 90-22-023, § 173-200-090, filed 10/31/90, effective 12/1/90.]

WAC 173-200-100 Implementation and enforcement. (1) The requirements of this chapter shall be met for all ground waters to meet the requirements of this chapter at all places and at all times.

(2) No person shall engage in any activity that violates or causes the violation of this chapter.

(3) This chapter shall be enforced through all legal, equitable, and other methods available to the department including, but not limited to: Issuance of state waste discharge permits, other departmental permits, regulatory orders, court actions, review and approval of plans and specifications, evaluation of compliance with all known, available, and reasonable methods of prevention, control, and treatment of a waste prior to discharge, and pursuit of memoranda of understanding between the department and other regulatory agencies.

(4) Permits issued or reissued by the department shall be conditioned in such a manner as to authorize only activities that will not cause violations of this chapter.

(a) Any applicant for any departmental permit shall evaluate the potential impact of its proposed activity on the ground water quality.

(b) For reissued permits, the permit holder shall evaluate the impacts of its activities on ground water quality, and, if necessary to achieve compliance with ground water quality enforcement limits, determine a department approved schedule of compliance.

(5) For permit holders in compliance with the terms and conditions of a department permit and whose activity violates this chapter, the department is electing, from among the enforcement mechanisms available to it for the enforcement of WAC 173-200-040 and 173-200-050, to precede any civil or criminal penalty with a compliance order or permit modification.

(6) The department shall pursue memoranda of understanding with other state agencies to develop policies and rules that will require all known, available, and reasonable methods of prevention, control, and treatment to achieve compliance with this chapter. Departmental orders, memoranda of understanding, and best management practices shall be modified by the department whenever an activity authorized by such orders or BMPs or pursuant to such memoranda of understanding violates this chapter.

(7) The department shall pursue memoranda of understanding with other state agencies, federal agencies, and tribal authorities to coordinate ground water management activities.

(8) For persons whose activity violates this chapter but is in compliance with best management practices adopted by rule in chapter 248-96 WAC, WAC 173-304-300(4), RCW 15.58.150 (2)(c), WAC 16-228-180(1), or 16-228-185, the department is electing, from among the enforcement mechanisms available to it for the enforcement of WAC 173-200-040 and 173-200-050, to precede any civil or criminal penalty with a compliance order.

(9) When a distinction cannot be made among ground water, surface water, or sediments the applicable standard shall depend on which beneficial use is or could be adversely affected. If beneficial uses of more than one resource are affected, the most restrictive standard shall apply.

(10) The department shall give due consideration to the precision and accuracy of sampling and analytical methods used when determining compliance with this chapter.

(11) The analytical testing methods for determining compliance with this chapter shall be approved in writing by the department prior to the performance of analyses.

[Statutory Authority: RCW 90.48.035. 90-22-023, § 173-200-100, filed 10/31/90, effective 12/1/90.]

Chapter 173-201A WAC

WATER QUALITY STANDARDS FOR SURFACE WATERS OF THE STATE OF WASHINGTON

WAC

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WAC 173-201A-010 Introduction. (1) The purpose of this chapter is to establish water quality standards for surface waters of the state of Washington consistent with public health and public enjoyment thereof, and the propagation and protection of fish, shellfish, and wildlife, pursuant to the provisions of chapter 90.48 RCW and the policies and purposes thereof.

(2) This chapter shall be reviewed periodically by the department and appropriate revisions shall be undertaken.

(3) The water use and quality criteria set forth in WAC 173-201A-030 through 173-201A-140 are established in conformance with present and potential water uses of the surface waters of the state of Washington and in consideration of the natural water quality potential and limitations of the same. Compliance with the surface water quality standards of the state of Washington require compliance with chapter 173-201A WAC, Water quality standards for surface waters of the state of Washington, and chapter 173-204 WAC, Sediment management standards.

[Statutory Authority: Chapter 90.48 RCW. 92-24-037 (Order 92-29), § 173-201A-010, filed 11/25/92, effective 12/26/92.]

WAC 173-201A-020 Definitions. The following definitions are intended to facilitate the use of chapter 173-201A WAC:

"Action value" means a total phosphorus (TP) value established at the upper limit of the trophic states in each ecoregion. Exceedance of an action value indicates that a problem is suspected. A lake-specific study may be needed to confirm if a nutrient problem exits.

"Acute conditions" are changes in the physical, chemical, or biologic environment which are expected or demonstrated to result in injury or death to an organism as a result of short-term exposure to the substance or detrimental environmental condition.

"AKART" is an acronym for "all known, available, and reasonable methods of prevention, control, and treatment." AKART shall represent the most current methodology that can be reasonably required for preventing, controlling, or

abating the pollutants associated with a discharge. The concept of AKART applies to both point and nonpoint sources of pollution. The term "best management practices," typically applied to nonpoint source pollution controls is considered a subset of the AKART requirement. "The Stormwater Management Manual for the Puget Sound Basin" (1992), may be used as a guideline, to the extent appropriate, for developing best management practices to apply AKART for storm water discharges.

"Background conditions" means the biological, chemical, and physical conditions of a water body, outside the area of influence of the discharge under consideration. Background sampling locations in an enforcement action would be up-gradient or outside the area of influence of the discharge. If several discharges to any water body exist, and enforcement action is being taken for possible violations to the standards, background sampling would be undertaken immediately up-gradient from each discharge. When assessing background conditions in the headwaters of a disturbed watershed it may be necessary to use the background conditions of a neighboring or similar watershed as the reference conditions.

"Best management practices (BMP)" means physical, structural, and/or managerial practices approved by the department that, when used singularly or in combination, prevent or reduce pollutant discharges.

"Biological assessment" is an evaluation of the biological condition of a water body using surveys of aquatic community structure and function and other direct measurements of resident biota in surface waters.

"Bog" means those wetlands that are acidic, peat forming, and whose primary water source is precipitation, with little, if any, outflow.

"Carcinogen" means any substance or agent that produces or tends to produce cancer in humans. For implementation of this chapter, the term carcinogen will apply to substances on the United States Environmental Protection Agency lists of A (known human) and B (probable human) carcinogens, and any substance which causes a significant increased incidence of benign or malignant tumors in a single, well conducted animal bioassay, consistent with the weight of evidence approach specified in the United States Environmental Protection Agency's Guidelines for Carcinogenic Risk Assessment as set forth in 51 FR 33992 et seq. as presently published or as subsequently amended or republished.

"Chronic conditions" are changes in the physical, chemical, or biologic environment which are expected or demonstrated to result in injury or death to an organism as a result of repeated or constant exposure over an extended period of time to a substance or detrimental environmental condition.

"Created wetlands" means those wetlands intentionally created from nonwetland sites to produce or replace natural wetland habitat.

"Critical condition" is when the physical, chemical, and biological characteristics of the receiving water environment interact with the effluent to produce the greatest potential adverse impact on aquatic biota and existing or characteristic water uses. For steady-state discharges to riverine systems the critical condition may be assumed to be equal to the 7Q10 flow event unless determined otherwise by the department.

"Damage to the ecosystem" means any demonstrated or predicted stress to aquatic or terrestrial organisms or communities of organisms which the department reasonably concludes may interfere in the health or survival success or natural structure of such populations. This stress may be due to, but is not limited to, alteration in habitat or changes in water temperature, chemistry, or turbidity, and shall consider the potential build up of discharge constituents or temporal increases in habitat alteration which may create such stress in the long term.

"Department" means the state of Washington department of ecology.

"Director" means the director of the state of Washington department of ecology.

"Drainage ditch" means that portion of a designed and constructed conveyance system that serves the purpose of transporting surplus water; this may include natural water courses or channels incorporated in the system design, but does not include the area adjacent to the water course or channel.

"Ecoregions" are defined using EPAs *Ecoregions of the Pacific Northwest* Document No. 600/3-86/033 July 1986 by Omernik and Gallant.

"Fecal coliform" means that portion of the coliform group which is present in the intestinal tracts and feces of warm-blooded animals as detected by the product of acid or gas from lactose in a suitable culture medium within twenty-four hours at 44.5 plus or minus 0.2 degrees Celsius.

"Geometric mean" means either the nth root of a product of n factors, or the antilogarithm of the arithmetic mean of the logarithms of the individual sample values.

"Ground water exchange" means the discharge and recharge of ground water to a surface water. Discharge is inflow from an aquifer, seeps or springs that increases the available supply of surface water. Recharge is outflow downgradient to an aquifer or downstream to surface water for base flow maintenance. Exchange may include ground water discharge in one season followed by recharge later in the year.

"Hardness" means a measure of the calcium and magnesium salts present in water. For purposes of this chapter, hardness is measured in milligrams per liter and expressed as calcium carbonate ($CaCO_3$).

"Irrigation ditch" means that portion of a designed and constructed conveyance system that serves the purpose of transporting irrigation water from its supply source to its place of use; this may include natural water courses or channels incorporated in the system design, but does not include the area adjacent to the water course or channel.

"Lakes" shall be distinguished from riverine systems as being water bodies, including reservoirs, with a mean detention time of greater than fifteen days.

"Lake-specific study" means a study intended to quantify existing nutrient concentrations, determine existing characteristic uses for lake class waters, and potential lake uses. The study determines how to protect these uses and if any uses are lost or impaired because of nutrients, algae, or aquatic plants. An appropriate study must recommend a criterion for total phosphorus (TP), total nitrogen (TN) in µg/l, or other nutrient

that impairs characteristic uses by causing excessive algae blooms or aquatic plant growth.

"Mean detention time" means the time obtained by dividing a reservoir's mean annual minimum total storage by the thirty-day ten-year low-flow from the reservoir.

"Migration or translocation" means any natural movement of an organism or community of organisms from one locality to another locality.

"Mixing zone" means that portion of a water body adjacent to an effluent outfall where mixing results in the dilution of the effluent with the receiving water. Water quality criteria may be exceeded in a mixing zone as conditioned and provided for in WAC 173-201A-100.

"Natural conditions" or "natural background levels" means surface water quality that was present before any human-caused pollution. When estimating natural conditions in the headwaters of a disturbed watershed it may be necessary to use the less disturbed conditions of a neighboring or similar watershed as a reference condition.

"Nonpoint source" means pollution that enters any waters of the state from any dispersed land-based or water-based activities, including but not limited to atmospheric deposition, surface water runoff from agricultural lands, urban areas, or forest lands, subsurface or underground sources, or discharges from boats or marine vessels not otherwise regulated under the National Pollutant Discharge Elimination System program.

"Permit" means a document issued pursuant to RCW 90.48.160 et seq. or RCW 90.48.260 or both, specifying the waste treatment and control requirements and waste discharge conditions.

"pH" means the negative logarithm of the hydrogen ion concentration.

"Pollution" means such contamination, or other alteration of the physical, chemical, or biological properties, of any waters of the state, including change in temperature, taste, color, turbidity, or odor of the waters, or such discharge of any liquid, gaseous, solid, radioactive, or other substance into any waters of the state as will or is likely to create a nuisance or render such waters harmful, detrimental, or injurious to the public health, safety, or welfare, or to domestic, commercial, industrial, agricultural, recreational, or other legitimate beneficial uses, or to livestock, wild animals, birds, fish, or other aquatic life.

"Primary contact recreation" means activities where a person would have direct contact with water to the point of complete submergence including, but not limited to, skin diving, swimming, and water skiing.

"Secondary contact recreation" means activities where a person's water contact would be limited (wading or fishing) to the extent that bacterial infections of eyes, ears, respiratory or digestive systems, or urogenital areas would normally be avoided.

"Shoreline stabilization" means the anchoring of soil at the water's edge, or in shallow water, by fibrous plant root complexes; this may include long-term accretion of sediment or peat, along with shoreline progradation in such areas.

"Storm water" means that portion of precipitation that does not naturally percolate into the ground or evaporate, but flows via overland flow, interflow, pipes, and other features of a storm water drainage system into a defined surface water body, or a constructed infiltration facility.

"Storm water attenuation" means the process by which peak flows from precipitation are reduced and runoff velocities are slowed as a result of passing through a surface waterbody.

"Surface waters of the state" includes lakes, rivers, ponds, streams, inland waters, saltwaters, wetlands and all other surface waters and water courses within the jurisdiction of the state of Washington.

"Temperature" means water temperature expressed in degrees Celsius (°C).

"Treatment wetlands" means those wetlands intentionally constructed on nonwetland sites and managed for the primary purpose of wastewater or storm water treatment. Treatment wetlands are considered part of a collection and treatment system, and generally are not subject to the criteria of this chapter.

"Trophic state" means a classification of the productivity of a lake ecosystem. Lake productivity depends on the amount of biologically available nutrients in water and sediments and may be based on total phosphorus (TP). Secchi depth and chlorophyll-a measurements may be used to improve the trophic state classification of a lake. Trophic states used in this rule include, from least to most nutrient rich, ultra-oligotrophic, oligotrophic, lower mesotrophic, upper mesotrophic, and eutrophic.

"Turbidity" means the clarity of water expressed as nephelometric turbidity units (NTU) and measured with a calibrated turbidimeter.

"Upwelling" means the natural process along Washington's Pacific Coast where the summer prevailing northerly winds produce a seaward transport of surface water. Cold, deeper more saline waters rich in nutrients and low in dissolved oxygen, rise to replace the surface water. The cold oxygen deficient water enters Puget Sound and other coastal estuaries at depth where it displaces the existing deep water and eventually rises to replace the surface water. Such surface water replacement results in an overall increase in salinity and nutrients accompanied by a depression in dissolved oxygen. Localized upwelling of the deeper water of Puget Sound can occur year-round under influence of tidal currents, winds, and geomorphic features.

"USEPA" means the United States Environmental Protection Agency.

"Wetlands" means areas that are inundated or saturated by surface water 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. Wetlands generally include swamps, marshes, bogs, and similar areas. Wetlands do not include those artificial wetlands intentionally created from nonwetland sites, including, but not limited to, irrigation and drainage ditches, grass-lined swales, canals, detention facilities, wastewater treatment facilities, farm ponds, and landscape amenities, or those wetlands created after July 1, 1990, that were unintentionally created as a result of the construction of a road, street, or highway. Wetlands may include those artificial wetlands intentionally created from nonwetland areas to mitigate the conversion of wetlands. (Waterbod-

ies not included in the definition of wetlands as well as those mentioned in the definition are still waters of the state.)

"Wildlife habitat" means waters of the state used by, or that directly or indirectly provide food support to, fish, other aquatic life, and wildlife for any life history stage or activity.

[Statutory Authority: Chapter 90.48 RCW and 40 CFR 131. 97-23-064 (Order 94-19), § 173-201A-020, filed 11/18/97, effective 12/19/97. Statutory Authority: Chapter 90.48 RCW. 92-24-037 (Order 92-29), § 173-201A-020, filed 11/25/92, effective 12/26/92.]

WAC 173-201A-030 General water use and criteria classes. The following criteria shall apply to the various classes of surface waters in the state of Washington:

(1) **Class AA (extraordinary).**

(a) General characteristic. Water quality of this class shall markedly and uniformly exceed the requirements for all or substantially all uses.

(b) Characteristic uses. Characteristic uses shall include, but not be limited to, the following:

(i) Water supply (domestic, industrial, agricultural).

(ii) Stock watering.

(iii) Fish and shellfish:

Salmonid migration, rearing, spawning, and harvesting.

Other fish migration, rearing, spawning, and harvesting.

Clam, oyster, and mussel rearing, spawning, and harvesting.

Crustaceans and other shellfish (crabs, shrimp, crayfish, scallops, etc.) rearing, spawning, and harvesting.

(iv) Wildlife habitat.

(v) Recreation (primary contact recreation, sport fishing, boating, and aesthetic enjoyment).

(vi) Commerce and navigation.

(c) Water quality criteria:

(i) Fecal coliform organisms:

(A) Freshwater - fecal coliform organism levels shall both not exceed a geometric mean value of 50 colonies/100 mL and not have more than 10 percent of all samples obtained for calculating the geometric mean value exceeding 100 colonies/100 mL.

(B) Marine water - fecal coliform organism levels shall both not exceed a geometric mean value of 14 colonies/100 mL, and not have more than 10 percent of all samples obtained for calculating the geometric mean value exceeding 43 colonies/100 mL.

(ii) Dissolved oxygen:

(A) Freshwater - dissolved oxygen shall exceed 9.5 mg/L.

(B) Marine water - dissolved oxygen shall exceed 7.0 mg/L. When natural conditions, such as upwelling, occur, causing the dissolved oxygen to be depressed near or below 7.0 mg/L, natural dissolved oxygen levels may be degraded by up to 0.2 mg/L by human-caused activities.

(iii) Total dissolved gas shall not exceed 110 percent of saturation at any point of sample collection.

(iv) Temperature shall not exceed 16.0°C (freshwater) or 13.0°C (marine water) due to human activities. When natural conditions exceed 16.0°C (freshwater) and 13.0°C (marine water), no temperature increases will be allowed which will raise the receiving water temperature by greater than 0.3°C.

Incremental temperature increases resulting from point source activities shall not, at any time, exceed t=23/(T+5) (freshwater) or t=8/(T-4) (marine water). Incremental temperature increases resulting from nonpoint source activities shall not exceed 2.8°C.

For purposes hereof, "t" represents the maximum permissible temperature increase measured at a mixing zone boundary; and "T" represents the background temperature as measured at a point or points unaffected by the discharge and representative of the highest ambient water temperature in the vicinity of the discharge.

(v) pH shall be within the range of 6.5 to 8.5 (freshwater) or 7.0 to 8.5 (marine water) with a human-caused variation within the above range of less than 0.2 units.

(vi) Turbidity shall not exceed 5 NTU over background turbidity when the background turbidity is 50 NTU or less, or have more than a 10 percent increase in turbidity when the background turbidity is more than 50 NTU.

(vii) Toxic, radioactive, or deleterious material concentrations shall be below those which have the potential either singularly or cumulatively to adversely affect characteristic water uses, cause acute or chronic conditions to the most sensitive biota dependent upon those waters, or adversely affect public health, as determined by the department (see WAC 173-201A-040 and 173-201A-050).

(viii) Aesthetic values shall not be impaired by the presence of materials or their effects, excluding those of natural origin, which offend the senses of sight, smell, touch, or taste.

(2) **Class A (excellent).**

(a) General characteristic. Water quality of this class shall meet or exceed the requirements for all or substantially all uses.

(b) Characteristic uses. Characteristic uses shall include, but not be limited to, the following:

(i) Water supply (domestic, industrial, agricultural).

(ii) Stock watering.

(iii) Fish and shellfish:

Salmonid migration, rearing, spawning, and harvesting.

Other fish migration, rearing, spawning, and harvesting.

Clam, oyster, and mussel rearing, spawning, and harvesting.

Crustaceans and other shellfish (crabs, shrimp, crayfish, scallops, etc.) rearing, spawning, and harvesting.

(iv) Wildlife habitat.

(v) Recreation (primary contact recreation, sport fishing, boating, and aesthetic enjoyment).

(vi) Commerce and navigation.

(c) Water quality criteria:

(i) Fecal coliform organisms:

(A) Freshwater - fecal coliform organism levels shall both not exceed a geometric mean value of 100 colonies/100 mL, and not have more than 10 percent of all samples obtained for calculating the geometric mean value exceeding 200 colonies/100 mL.

(B) Marine water - fecal coliform organism levels shall both not exceed a geometric mean value of 14 colonies/100 mL, and not have more than 10 percent of all samples obtained for calculating the geometric mean value exceeding 43 colonies/100 mL.

(ii) Dissolved oxygen:

(A) Freshwater - dissolved oxygen shall exceed 8.0 mg/L.

(B) Marine water - dissolved oxygen shall exceed 6.0 mg/L. When natural conditions, such as upwelling, occur, causing the dissolved oxygen to be depressed near or below 6.0 mg/L, natural dissolved oxygen levels may be degraded by up to 0.2 mg/L by human-caused activities.

(iii) Total dissolved gas shall not exceed 110 percent of saturation at any point of sample collection.

(iv) Temperature shall not exceed 18.0°C (freshwater) or 16.0°C (marine water) due to human activities. When natural conditions exceed 18.0°C (freshwater) and 16.0°C (marine water), no temperature increases will be allowed which will raise the receiving water temperature by greater than 0.3°C.

Incremental temperature increases resulting from point source activities shall not, at any time, exceed t=28/(T+7) (freshwater) or t=12/(T-2) (marine water). Incremental temperature increases resulting from nonpoint source activities shall not exceed 2.8°C.

For purposes hereof, "t" represents the maximum permissible temperature increase measured at a mixing zone boundary; and "T" represents the background temperature as measured at a point or points unaffected by the discharge and representative of the highest ambient water temperature in the vicinity of the discharge.

(v) pH shall be within the range of 6.5 to 8.5 (freshwater) or 7.0 to 8.5 (marine water) with a human-caused variation within the above range of less than 0.5 units.

(vi) Turbidity shall not exceed 5 NTU over background turbidity when the background turbidity is 50 NTU or less, or have more than a 10 percent increase in turbidity when the background turbidity is more than 50 NTU.

(vii) Toxic, radioactive, or deleterious material concentrations shall be below those which have the potential either singularly or cumulatively to adversely affect characteristic water uses, cause acute or chronic conditions to the most sensitive biota dependent upon those waters, or adversely affect public health, as determined by the department (see WAC 173-201A-040 and 173-201A-050).

(viii) Aesthetic values shall not be impaired by the presence of materials or their effects, excluding those of natural origin, which offend the senses of sight, smell, touch, or taste.

(3) **Class B (good).**

(a) General characteristic. Water quality of this class shall meet or exceed the requirements for most uses.

(b) Characteristic uses. Characteristic uses shall include, but not be limited to, the following:

(i) Water supply (industrial and agricultural).

(ii) Stock watering.

(iii) Fish and shellfish:

Salmonid migration, rearing, and harvesting.

Other fish migration, rearing, spawning, and harvesting.

Clam, oyster, and mussel rearing and spawning.

Crustaceans and other shellfish (crabs, shrimp, crayfish, scallops, etc.) rearing, spawning, and harvesting.

(iv) Wildlife habitat.

(v) Recreation (secondary contact recreation, sport fishing, boating, and aesthetic enjoyment).

(vi) Commerce and navigation.

(c) Water quality criteria:

(i) Fecal coliform organisms:

(A) Freshwater - fecal coliform organism levels shall both not exceed a geometric mean value of 200 colonies/100 mL, and not have more than 10 percent of all samples obtained for calculating the geometric mean value exceeding 400 colonies/100 mL.

(B) Marine water - fecal coliform organism levels shall both not exceed a geometric mean value of 100 colonies/100 mL, and not have more than 10 percent of all samples obtained for calculating the geometric mean value exceeding 200 colonies/100 Ml.

(ii) Dissolved oxygen:

(A) Freshwater - dissolved oxygen shall exceed 6.5 mg/L.

(B) Marine water - dissolved oxygen shall exceed 5.0 mg/L. When natural conditions, such as upwelling, occur, causing the dissolved oxygen to be depressed near or below 5.0 mg/L, natural dissolved oxygen levels may be degraded by up to 0.2 mg/L by human-caused activities.

(iii) Total dissolved gas shall not exceed 110 percent of saturation at any point of sample collection.

(iv) Temperature shall not exceed 21.0°C (freshwater) or 19.0°C (marine water) due to human activities. When natural conditions exceed 21.0°C (freshwater) and 19.0°C (marine water), no temperature increases will be allowed which will raise the receiving water temperature by greater than 0.3°C.

Incremental temperature increases resulting from point source activities shall not, at any time, exceed t=34/(T+9) (freshwater) or t=16/(T) (marine water). Incremental temperature increases resulting from nonpoint source activities shall not exceed 2.8°C.

For purposes hereof, "t" represents the maximum permissible temperature increase measured at a mixing zone boundary; and "T" represents the background temperature as measured at a point or points unaffected by the discharge and representative of the highest ambient water temperature in the vicinity of the discharge.

(v) pH shall be within the range of 6.5 to 8.5 (freshwater) and 7.0 to 8.5 (marine water) with a human-caused variation within the above range of less than 0.5 units.

(vi) Turbidity shall not exceed 10 NTU over background turbidity when the background turbidity is 50 NTU or less, or have more than a 20 percent increase in turbidity when the background turbidity is more than 50 NTU.

(vii) Toxic, radioactive, or deleterious material concentrations shall be below those which have the potential either singularly or cumulatively to adversely affect characteristic water uses, cause acute or chronic conditions to the most sensitive biota dependent upon those waters, or adversely affect public health, as determined by the department (see WAC 173-201A-040 and 173-201A-050).

(viii) Aesthetic values shall not be reduced by dissolved, suspended, floating, or submerged matter not attributed to natural causes, so as to affect water use or taint the flesh of edible species.

(4) **Class C (fair).**

(a) General characteristic. Water quality of this class shall meet or exceed the requirements of selected and essential uses.

(b) Characteristic uses. Characteristic uses shall include, but not be limited to, the following:

(i) Water supply (industrial).

(ii) Fish (salmonid and other fish migration).

(iii) Recreation (secondary contact recreation, sport fishing, boating, and aesthetic enjoyment).

(iv) Commerce and navigation.

(c) Water quality criteria - marine water:

(i) Fecal coliform organism levels shall both not exceed a geometric mean value of 200 colonies/100 mL, and not have more than 10 percent of all samples obtained for calculating the geometric mean value exceeding 400 colonies/100 mL.

(ii) Dissolved oxygen shall exceed 4.0 mg/L. When natural conditions, such as upwelling, occur, causing the dissolved oxygen to be depressed near or below 4.0 mg/L, natural dissolved oxygen levels may be degraded by up to 0.2 mg/L by human-caused activities.

(iii) Temperature shall not exceed 22.0°C due to human activities. When natural conditions exceed 22.0°C, no temperature increases will be allowed which will raise the receiving water temperature by greater than 0.3°C.

Incremental temperature increases shall not, at any time, exceed t=20/(T+2).

For purposes hereof, "t" represents the maximum permissible temperature increase measured at a mixing zone boundary; and "T" represents the background temperature as measured at a point or points unaffected by the discharge and representative of the highest ambient water temperature in the vicinity of the discharge.

(iv) pH shall be within the range of 6.5 to 9.0 with a human-caused variation within a range of less than 0.5 units.

(v) Turbidity shall not exceed 10 NTU over background turbidity when the background turbidity is 50 NTU or less, or have more than a 20 percent increase in turbidity when the background turbidity is more than 50 NTU.

(vi) Toxic, radioactive, or deleterious material concentrations shall be below those which have the potential either singularly or cumulatively to adversely affect characteristic water uses, cause acute or chronic conditions to the most sensitive biota dependent upon those waters, or adversely affect public health, as determined by the department (see WAC 173-201A-040 and 173-201A-050).

(vii) Aesthetic values shall not be interfered with by the presence of obnoxious wastes, slimes, aquatic growths, or materials which will taint the flesh of edible species.

(5) **Lake class.**

(a) General characteristic. Water quality of this class shall meet or exceed the requirements for all or substantially all uses.

(b) Characteristic uses. Characteristic uses shall include, but not be limited to, the following:

(i) Water supply (domestic, industrial, agricultural).

(ii) Stock watering.

(iii) Fish and shellfish:

Salmonid migration, rearing, spawning, and harvesting.

Other fish migration, rearing, spawning, and harvesting.

Clam and mussel rearing, spawning, and harvesting.

Crayfish rearing, spawning, and harvesting.

(iv) Wildlife habitat.

(v) Recreation (primary contact recreation, sport fishing, boating, and aesthetic enjoyment).

(vi) Commerce and navigation.

(c) Water quality criteria:

(i) Fecal coliform organism levels shall both not exceed a geometric mean value of 50 colonies/100 mL, and not have more than 10 percent of all samples obtained for calculating the geometric mean value exceeding 100 colonies/100 mL.

(ii) Dissolved oxygen - no measurable decrease from natural conditions.

(iii) Total dissolved gas shall not exceed 110 percent of saturation at any point of sample collection.

(iv) Temperature - no measurable change from natural conditions.

(v) pH - no measurable change from natural conditions.

(vi) Turbidity shall not exceed 5 NTU over background conditions.

(vii) Toxic, radioactive, or deleterious material concentrations shall be below those which have the potential either singularly or cumulatively to adversely affect characteristic water uses, cause acute or chronic conditions to the most sensitive biota dependent upon those waters, or adversely affect public health, as determined by the department (see WAC 173-201A-040 and 173-201A-050).

(viii) Aesthetic values shall not be impaired by the presence of materials or their effects, excluding those of natural origin, which offend the senses of sight, smell, touch, or taste.

(6) **Establishing lake nutrient criteria.**

(a) The following table shall be used to aid in establishing nutrient criteria:

(Table 1) The ecoregional and trophic-state action values for establishing nutrient criteria:

Coast Range, Puget Lowlands, and Northern Rockies Ecoregions:		
Trophic State	**If Ambient TP (µg/l) Range of Lake is:**	**Then criteria should be set at:**
Ultra-oligotrophic	0-4	4 or less
Oligotrophic	>4-10	10 or less
Lower mesotrophic	>10-20	20 or less
	Action value	
	>20	lake specific study may be initiated.

Cascades Ecoregion:		
Trophic State	**If Ambient TP (µg/l) Range of Lake is:**	**Then criteria should be set at:**
Ultra-oligotrophic	0-4	4 or less
Oligotrophic	>4-10	10 or less
	Action value	
	>10	lake specific study may be initiated.
Columbia Basin Ecoregion:		
Trophic State	**If Ambient TP (µg/l) Range of Lake is:**	**Then criteria should be set at:**
Ultra-oligotrophic	0-4	4 or less
Oligotrophic	>4-10	10 or less
Lower mesotrophic	>10-20	20 or less
Upper mesotrophic	>20-35	35 or less
	Action value	
	>35	lake specific study may be initiated.

Lakes in the Willamette, East Cascade Foothills, or Blue Mountain ecoregions do not have recommended values and need to have lake-specific studies in order to receive criteria as described in (c)(i) of this subsection.

(b) The following actions are recommended if ambient monitoring of a lake shows the epilimnetic total phosphorus concentration, as shown in Table 1 of this section, is below the action value for an ecoregion:

(i) Determine trophic status from existing or newly gathered data. The recommended minimum sampling to determine trophic status is calculated as the mean of four or more samples collected from the epilimnion between June through September in one or more consecutive years. Sampling must be spread throughout the season.

(ii) Propose criteria at or below the upper limit of the trophic state; or

(iii) Conduct lake-specific study to determine and propose to adopt appropriate criteria as described in (c) of this subsection.

(c) The following actions are recommended if ambient monitoring of a lake shows total phosphorus to exceed the action value for an ecoregion shown in Table 1 of this section or where recommended ecoregional action values do not exist:

(i) Conduct a lake-specific study to evaluate the characteristic uses of the lake. A lake-specific study may vary depending on the source or threat of impairment. Phytoplankton blooms, toxic phytoplankton, or excessive aquatic plants, are examples of various sources of impairment. The following are examples of quantitative measures that a study may describe: Total phosphorus, total nitrogen, chlorophyll-a, dissolved oxygen in the hypolimnion if thermally stratified, pH, hardness, or other measures of existing conditions and potential changes in any one of these parameters.

(ii) Determine appropriate total phosphorus concentrations or other nutrient criteria to protect characteristic lake uses. If the existing total phosphorus concentration is protective of characteristic lake uses, then set criteria at existing total phosphorus concentration. If the existing total phosphorus concentration is not protective of the existing characteristic lake uses, then set criteria at a protective concentration. Proposals to adopt appropriate total phosphorus criteria to protect characteristic uses must be developed by considering technical information and stakeholder input as part of a public involvement process equivalent to the Administrative Procedure Act (chapter 34.05 RCW).

(iii) Determine if the proposed total phosphorus criteria necessary to protect characteristic uses is achievable. If the recommended criterion is not achievable and if the characteristic use the criterion is intended to protect is not an existing use, then a higher criterion may be proposed in conformance with 40 CFR part 131.10.

(d) The department will consider proposed lake-specific nutrient criteria during any water quality standards rule making that follows development of a proposal. Adoption by rule formally establishes the criteria for that lake.

(e) Prioritization and investigation of lakes by the department will be initiated by listing problem lakes in a watershed needs assessment, and scheduled as part of the water quality program's watershed approach to pollution control. This prioritization will apply to lakes identified as warranting a criteria based on the results of a lake-specific study, to lakes warranting a lake-specific study for establishing criteria, and to lakes requiring restoration and pollution control measures due to exceedance of an established criterion. The adoption of nutrient criteria are generally not intended to apply to lakes or ponds with a surface area smaller than five acres; or to ponds wholly contained on private property owned and surrounded by a single landowner; and nutrients do not drain or leach from these lakes or private ponds to the detriment of other property owners or other water bodies; and do not impact designated uses in the lake. However, if the landowner proposes criteria the department may consider adoption.

(f) The department may not need to set a lake-specific criteria or further investigate a lake if existing water quality conditions are naturally poorer (higher TP) than the action value and uses have not been lost or degraded, per WAC 173-201A-070(2).

[Statutory Authority: Chapter 90.48 RCW and 40 CFR 131. 97-23-064 (Order 94-19), § 173-201A-030, filed 11/18/97, effective 12/19/97. Statutory Authority: Chapter 90.48 RCW. 92-24-037 (Order 92-29), § 173-201A-030, filed 11/25/92, effective 12/26/92.]

WAC 173-201A-040 Toxic substances. (1) Toxic substances shall not be introduced above natural background lev-

els in waters of the state which have the potential either singularly or cumulatively to adversely affect characteristic water uses, cause acute or chronic toxicity to the most sensitive biota dependent upon those waters, or adversely affect public health, as determined by the department.

(2) The department shall employ or require chemical testing, acute and chronic toxicity testing, and biological assessments, as appropriate, to evaluate compliance with subsection (1) of this section and to ensure that aquatic communities and the existing and characteristic beneficial uses of waters are being fully protected.

(3) The following criteria shall be applied to all surface waters of the state of Washington for the protection of aquatic life. The department may revise the following criteria on a statewide or waterbody-specific basis as needed to protect aquatic life occurring in waters of the state and to increase the technical accuracy of the criteria being applied. The department shall formally adopt any appropriate revised criteria as part of this chapter in accordance with the provisions established in chapter 34.05 RCW, the Administrative Procedure Act. The department shall ensure there are early opportunities for public review and comment on proposals to develop revised criteria. Values are µg/L for all substances except Ammonia and Chloride which are mg/L:

Substance	Freshwater Acute	Freshwater Chronic	Marine Water Acute	Marine Water Chronic
Aldrin/Dieldrin	2.5a	0.0019b	0.71a	0.0019b
Ammonia (un-ionized NH3) hh	f,c	g,d	0.233h,c	0.035h,d
Arsenic dd	360.0c	190.0d	69.0c,ll	36.0d, cc,ll
Cadmium dd	i,c	j,d	42.0c	9.3d
Chlordane	2.4a	0.0043b	0.09a	0.004b
Chloride (Dissolved) k	860.0h,c	230.0h,d	-	-
Chlorine (Total Residual)	19.0c	11.0d	13.0c	7.5d
Chlorpyrifos	0.083c	0.041d	0.011c	0.0056d
Chromium (Hex) dd	15.0c,l,ii	10.0d,jj	1,100.0c,l,ll	50.0d,ll
Chromium (Tri) gg	m,c	n,d	-	-
Copper dd	o,c	p,d	4.8c,ll	3.1d,ll
Cyanide ee	22.0c	5.2d	1.0c,mm	-
DDT (and metabolites)	1.1a	0.001b	0.13a	0.001b
Dieldrin/Aldrin e	2.5a	0.0019b	0.71a	0.0019b
Endosulfan	0.22a	0.056b	0.034a	0.0087b
Endrin	0.18a	0.0023b	0.037a	0.0023b
Heptachlor	0.52a	0.0038b	0.053a	0.0036b
Hexachlorocyclohexane (Lindane)	2.0a	0.08b	0.16a	-
Lead dd	q,c	r,d	210.0c,ll	8.1d,ll
Mercury s	2.1c,kk,dd	0.012d,ff	1.8c,ll,dd	0.025d,ff
Nickel dd	t,c	u,d	74.0c,ll	8.2d,ll
Parathion	0.065c	0.013d	-	-
Pentachlorophenol (PCP)	w,c	v,d	13.0c	7.9d
Polychlorinated Biphenyls (PCBs)	2.0b	0.014b	10.0b	0.030b
Selenium	20.0c,ff	5.0d,ff	290c,ll,dd	71.0d, x,ll,dd
Silver dd	y,a	-	1.9a,ll	-
Toxaphene	0.73c,z	0.0002d	0.21c,z	0.0002d
Zinc dd	aa,c	bb,d	90.0c,ll	81.0d,ll

Notes to Table:

a. An instantaneous concentration not to be exceeded at any time.

b. A 24-hour average not to be exceeded.

c. A 1-hour average concentration not to be exceeded more than once every three years on the average.

d. A 4-day average concentration not to be exceeded more than once every three years on the average.

e. Aldrin is metabolically converted to Dieldrin. Therefore, the sum of the Aldrin and Dieldrin concentrations are compared with the Dieldrin criteria.

f. Shall not exceed the numerical value given by:

$$0.52 \div (FT)(FPH)(2)$$

where: $FT = 10^{[0.03(20-TCAP)]}$; $TCAP \le T \le 30$

$FT = 10^{[0.03(20-T)]}$; $0 \le T \le TCAP$

$FPH = 1$; $8 \le pH \le 9$

$FPH = (1+ 10^{(7.4-pH)}) \div 1.25$; $6.5 \le pH \le 8.0$

$TCAP = 20°C$; Salmonids present.

$TCAP = 25°C$; Salmonids absent.

g. Shall not exceed the numerical value given by:

$$0.80 \div (FT)(FPH)(RATIO)$$

where: $RATIO = 13.5$; $7.7 \le pH \le 9$

$RATIO = (20.25 \times 10^{(7.7-pH)}) \div (1+ 10^{(7.4-pH)})$; $6.5 \le pH \le 7.7$

where: FT and FPH are as shown in (f) above except:

TCAP = 15°C; Salmonids present.

TCAP = 20°C; Salmonids absent.

h. Measured in milligrams per liter rather than micrograms per liter.

i. $\le (0.944)(e(1.128[\ln(hardness)]-3.828))$ at hardness= 100. Conversion factor (CF) of 0.944 is hardness dependent. CF is calculated for other hardnesses as follows: CF= 1.136672 - [(In hardness)(0.041838)].

j. $\le (0.909)(e(0.7852[\ln(hardness)]-3.490))$ at hardness= 100. Conversions factor (CF) of 0.909 is hardness dependent. CF is calculated for other hardnesses as follows: CF= 1.101672 - [(In hardness)(0.041838)].

k. Criterion based on dissolved chloride in association with sodium. This criterion probably will not be adequately protective when the chloride is associated with potassium, calcium, or magnesium, rather than sodium.

l. Salinity dependent effects. At low salinity the 1-hour average may not be sufficiently protective.

m. $\le (0.316)e^{(0.8190[\ln(hardness)] +3.688)}$

n. $\le (0.860)e^{(0.8190[\ln(hardness)] +1.561)}$

o. $\le (0.960)(e^{(0.9422[\ln(hardness)] -1.464)})$

p. $\le (0.960)(e^{(0.8545[\ln(hardness)] -1.465)})$

q. $\le (0.791)(e^{(1.273[\ln(hardness)] -1.460)})$ at hardness= 100. Conversion factor (CF) of 0.791 is hardness dependent. CF is calculated for other hardnesses as follows: CF= 1.46203 - [(In hardness)(0.145712)].

r. $\le (0.791)(e^{(1.273[\ln(hardness)] -4.705)})$ at hardness= 100. Conversion factor (CF) of 0.791 is hardness dependent. CF is calculated for other hardnesses as follows: CF= 1.46203 - [(In hardness)(0.145712)].

s. If the four-day average chronic concentration is exceeded more than once in a three-year period, the edible portion of the consumed species should be analyzed. Said edible tissue concentrations shall not be allowed to exceed 1.0 mg/kg of methylmercury.

t. $\le (0.998)(e^{(0.8460[\ln(hardness)] +3.3612)})$

u. $\le (0.997)(e^{(0.8460[\ln(hardness)] +1.1645)})$

v. $\le e^{[1.005(pH) -5.290]}$

w. $\le e^{[1.005(pH) -4.830]}$

x. The status of the fish community should be monitored whenever the concentration of selenium exceeds 5.0 ug/l in salt water.

y. $\le (0.85)(e^{(1.72[\ln(hardness)] -6.52)})$

z. Channel Catfish may be more acutely sensitive.

aa. $\le (0.978)(e^{(0.8473[\ln(hardness)] +0.8604)})$

bb. $\le (0.986)(e^{(0.8473[\ln(hardness)] +0.7614)})$

cc. Nonlethal effects (growth, C-14 uptake, and chlorophyll production) to diatoms (Thalassiosira aestivalis and Skeletonema costatum) which are common to Washington's waters have been noted at levels

below the established criteria. The importance of these effects to the diatom populations and the aquatic system is sufficiently in question to persuade the state to adopt the USEPA National Criteria value (36 µg/L) as the state threshold criteria, however, wherever practical the ambient concentrations should not be allowed to exceed a chronic marine concentration of 21 µg/L.

dd. These ambient criteria in the table are for the dissolved fraction. The cyanide criteria are based on the weak acid dissociable method. The metals criteria may not be used to calculate total recoverable effluent limits unless the seasonal partitioning of the dissolved to total metals in the ambient water are known. When this information is absent, these metals criteria shall be applied as total recoverable values, determined by back-calculation, using the conversion factors incorporated in the criterion equations. Metals criteria may be adjusted on a site-specific basis when data are made available to the department clearly demonstrating the effective use of the water effects ratio approach established by USEPA, as generally guided by the procedures in USEPA Water Quality Standards Handbook, December 1983, as supplemented or replaced. Information which is used to develop effluent limits based on applying metals partitioning studies or the water effects ratio approach shall be identified in the permit fact sheet developed pursuant to WAC 173-220-060 or 173-226-110, as appropriate, and shall be made available for the public comment period required pursuant to WAC 173-220-050 or 173-226-130(3), as appropriate.

ee. The criteria for cyanide is based on the weak and dissociable method in the 17th Ed. Standard Methods for the Examination of Water and Wastewater, 4500-CN I, and as revised (see footnote dd, above).

ff. These criteria are based on the total-recoverable fraction of the metal.

gg. Where methods to measure trivalent chromium are unavailable, these criteria are to be represented by total-recoverable chromium.

hh. Tables for the conversion of total ammonia to un-ionized ammonia for freshwater can be found in the USEPA's Quality Criteria for Water, 1986. Criteria concentrations based on total ammonia for marine water can be found in USEPA Ambient Water Quality Criteria for Ammonia (Saltwater)-1989, EPA440/5-88-004, April 1989.

ii. Conversion factor to calculate dissolved metal concentration is 0.982.

jj. Conversion factor to calculate dissolved metal concentration is 0.962.

kk. Conversion factor to calculate dissolved metal concentration is 0.85.

ll. Marine conversion factors (CF) used for calculating dissolved metals concentrations. Conversion factors are applicable to both acute and chronic criteria for all metals except mercury. CF for mercury is applicable to the acute criterion only. Conversion factors are already incorporated into the criteria in the table. Dissolved criterion= criterion x CF

Metal	CF
Arsenic	1.000
Cadmium	0.994
Chromium (VI)	0.993
Copper	0.83
Lead	0.951
Mercury	0.85
Nickel	0.990
Selenium	0.998
Silver	0.85
Zinc	0.946

mm. The cyanide criteria are: 9.1µg/l chronic and 2.8µg/l acute and are applicable only to waters which are east of a line from Point Roberts to Lawrence Point, to Green Point to Deception Pass; and south from Deception Pass and of a line from Partridge Point to Point Wilson.

(4) USEPA Quality Criteria for Water, 1986 shall be used in the use and interpretation of the values listed in subsection (3) of this section.

(5) Concentrations of toxic, and other substances with toxic propensities not listed in subsection (3) of this section shall be determined in consideration of USEPA Quality Criteria for Water, 1986, and as revised, and other relevant information as appropriate. Human health-based water quality criteria used by the state are contained in 40 CFR 131.36 (known as the National Toxics Rule).

(6) Risk-based criteria for carcinogenic substances shall be selected such that the upper-bound excess cancer risk is less than or equal to one in one million.

[Statutory Authority: Chapter 90.48 RCW and 40 CFR 131. 97-23-064 (Order 94-19), § 173-201A-040, filed 11/18/97, effective 12/19/97. Statutory Authority: Chapter 90.48 RCW. 92-24-037 (Order 92-29), § 173-201A-040, filed 11/25/92, effective 12/26/92.]

Reviser's note: The brackets and enclosed material in the text of the above section occurred in the copy filed by the agency.

WAC 173-201A-050 Radioactive substances. (1) Deleterious concentrations of radioactive materials for all classes shall be as determined by the lowest practicable concentration attainable and in no case shall exceed:

(a) 1/12.5 of the values listed in WAC 246-221-290 (Column 2, Table II, effluent concentrations, rules and regulations for radiation protection); or

(b) USEPA Drinking Water Regulations for radionuclides, as published in the Federal Register of July 9, 1976, or subsequent revisions thereto.

(2) Nothing in this chapter shall be interpreted to be applicable to those aspects of governmental regulation of radioactive waters which have been preempted from state regulation by the Atomic Energy Act of 1954, as amended, as interpreted by the United States Supreme Court in the cases of *Northern States Power Co. v. Minnesota 405 U.S. 1035 (1972) and Train v. Colorado Public Interest Research Group, 426 U.S. 1 (1976).*

[Statutory Authority: Chapter 90.48 RCW and 40 CFR 131. 97-23-064 (Order 94-19), § 173-201A-050, filed 11/18/97, effective 12/19/97. Statutory Authority: Chapter 90.48 RCW. 92-24-037 (Order 92-29), § 173-201A-050, filed 11/25/92, effective 12/26/92.]

WAC 173-201A-060 General considerations. The following general guidelines shall apply to the water quality criteria and classifications set forth in WAC 173-201A-030 through 173-201A-140 hereof:

(1) At the boundary between waters of different classifications, the water quality criteria for the higher classification shall prevail.

(2) In brackish waters of estuaries, where the fresh and marine water quality criteria differ within the same classification, the criteria shall be applied on the basis of vertically averaged salinity. The freshwater criteria shall be applied at any point where ninety-five percent of the vertically averaged daily maximum salinity values are less than or equal to one part per thousand. Marine criteria shall apply at all other locations; except that the marine water quality criteria shall apply for dissolved oxygen when the salinity is one part per thousand or greater and for fecal coliform organisms when the salinity is ten parts per thousand or greater.

(3) In determining compliance with the fecal coliform criteria in WAC 173-201A-030, averaging of data collected beyond a thirty-day period, or beyond a specific discharge event under investigation, shall not be permitted when such averaging would skew the data set so as to mask noncompliance periods.

(4)(a) The water quality criteria herein established for total dissolved gas shall not apply when the stream flow exceeds the seven-day, ten-year frequency flood.

(b) The total dissolved gas criteria may be adjusted to aid fish passage over hydroelectric dams when consistent with a department approved gas abatement plan. This gas abatement plan must be accompanied by fisheries management and physical and biological monitoring plans. The elevated total dissolved gas levels are intended to allow increased fish passage without causing more harm to fish populations than caused by turbine fish passage. The specific allowances for total dissolved gas exceedances are listed as special conditions for sections of the Snake and Columbia rivers in WAC 173-201A-130 and as shown in the following exemption:

Special fish passage exemption for sections of the Snake and Columbia rivers: When spilling water at dams is necessary to aid fish passage, total dissolved gas must not exceed an average of one hundred fifteen percent as measured at Camas/Washougal below Bonneville dam or as measured in the forebays of the next downstream dams. Total dissolved gas must also not exceed an average of one hundred twenty percent as measured in the tailraces of each dam. These averages are based on the twelve highest hourly readings in any one day of total dissolved gas. In addition, there is a maximum total dissolved gas one hour average of one hundred twenty-five percent, relative to atmospheric pressure, during spillage for fish passage. These special conditions for total dissolved gas in the Snake and Columbia rivers are viewed as temporary and are to be reviewed by the year 2003.

(c) Nothing in these special conditions allows an impact to existing and characteristic uses.

(5) Waste discharge permits, whether issued pursuant to the National Pollutant Discharge Elimination System or otherwise, shall be conditioned so the discharges authorized will meet the water quality standards.

(a) However, persons discharging wastes in compliance with the terms and conditions of permits shall not be subject to civil and criminal penalties on the basis that the discharge violates water quality standards.

(b) Permits shall be subject to modification by the department whenever it appears to the department the discharge violates water quality standards. Modification of permits, as provided herein, shall be subject to review in the same manner as originally issued permits.

(6) No waste discharge permit shall be issued which results in a violation of established water quality criteria, except as provided for under WAC 173-201A-100 or 173-201A-110.

(7) Due consideration will be given to the precision and accuracy of the sampling and analytical methods used as well as existing conditions at the time, in the application of the criteria.

(8) The analytical testing methods for these criteria shall be in accordance with the *"Guidelines Establishing Test Procedures for the Analysis of Pollutants" (40 C.F.R. Part 136)* and other or superseding methods published and/or approved by the department following consultation with adjacent states and concurrence of the USEPA.

(9) Nothing in this chapter shall be interpreted to prohibit the establishment of effluent limitations for the control of the thermal component of any discharge in accordance with Section 316 of the federal Clean Water Act (33 U.S.C. 1251 et seq.).

(10) The primary means for protecting water quality in wetlands is through implementing the antidegradation procedures section (WAC 173-201A-070).

(a) In addition to designated uses, wetlands may have existing beneficial uses that are to be protected that include ground water exchange, shoreline stabilization, and storm water attenuation.

(b) Water quality in wetlands is maintained and protected by maintaining the hydrologic conditions, hydrophytic vegetation, and substrate characteristics necessary to support existing and designated uses.

(c) Wetlands shall be delineated using the Washington State Wetlands Identification and Delineation Manual, in accordance with WAC 173-22-035.

[Statutory Authority: Chapter 90.48 RCW and 40 CFR 131. 97-23-064 (Order 94-19), § 173-201A-060, filed 11/18/97, effective 12/19/97. Statutory Authority: Chapter 90.48 RCW. 92-24-037 (Order 92-29), § 173-201A-060, filed 11/25/92, effective 12/26/92.]

WAC 173-201A-070 Antidegradation. The antidegradation policy of the state of Washington, as generally guided by chapter 90.48 RCW, Water Pollution Control Act, and chapter 90.54 RCW, Water Resources Act of 1971, is stated as follows:

(1) Existing beneficial uses shall be maintained and protected and no further degradation which would interfere with or become injurious to existing beneficial uses shall be allowed.

(2) Whenever the natural conditions of said waters are of a lower quality than the criteria assigned, the natural conditions shall constitute the water quality criteria.

(3) Water quality shall be maintained and protected in waters designated as outstanding resource waters in WAC 173-201A-080.

(4) Whenever waters are of a higher quality than the criteria assigned for said waters, the existing water quality shall be protected and pollution of said waters which will reduce the existing quality shall not be allowed, except in those instances where:

(a) It is clear, after satisfactory public participation and intergovernmental coordination, that overriding considerations of the public interest will be served;

(b) All wastes and other materials and substances discharged into said waters shall be provided with all known, available, and reasonable methods of prevention, control, and treatment by new and existing point sources before discharge. All activities which result in the pollution of waters from nonpoint sources shall be provided with all known, available, and reasonable best management practices; and

(c) When the lowering of water quality in high quality waters is authorized, the lower water quality shall still be of high enough quality to fully support all existing beneficial uses.

(5) Short-term modification of water quality may be permitted as conditioned by WAC 173-201A-110.

[Statutory Authority: Chapter 90.48 RCW. 92-24-037 (Order 92-29), § 173-201A-070, filed 11/25/92, effective 12/26/92.]

WAC 173-201A-080 Outstanding resource waters. Waters meeting one or more of the following criteria shall be considered for outstanding resource water designation. Designations shall be adopted in accordance with the provisions of chapter 34.05 RCW, Administrative Procedure Act.

(1) Waters in national parks, national monuments, national preserves, national wildlife refuges, national wilderness areas, federal wild and scenic rivers, national seashores, national marine sanctuaries, national recreation areas, national scenic areas, and national estuarine research reserves;

(2) Waters in state parks, state natural areas, state wildlife management areas, and state scenic rivers;

(3) Documented aquatic habitat of priority species as determined by the department of wildlife;

(4) Documented critical habitat for populations of threatened or endangered species of native anadromous fish;

(5) Waters of exceptional recreational or ecological significance.

[Statutory Authority: Chapter 90.48 RCW. 92-24-037 (Order 92-29), § 173-201A-080, filed 11/25/92, effective 12/26/92.]

WAC 173-201A-100 Mixing zones. (1) The allowable size and location of a mixing zone and the associated effluent limits shall be established in discharge permits, general permits, or orders, as appropriate.

(2) A discharger shall be required to fully apply AKART prior to being authorized a mixing zone.

(3) Mixing zone determinations shall consider critical discharge conditions.

(4) No mixing zone shall be granted unless the supporting information clearly indicates the mixing zone would not have a reasonable potential to cause a loss of sensitive or important habitat, substantially interfere with the existing or characteristic uses of the water body, result in damage to the ecosystem, or adversely affect public health as determined by the department.

(5) Water quality criteria shall not be violated outside of the boundary of a mixing zone as a result of the discharge for which the mixing zone was authorized.

(6) The size of a mixing zone and the concentrations of pollutants present shall be minimized.

(7) The maximum size of a mixing zone shall comply with the following:

(a) In rivers and streams, mixing zones, singularly or in combination with other mixing zones, shall comply with the most restrictive combination of the following (this size limitation may be applied to estuaries having flow characteristics that resemble rivers):

(i) Not extend in a downstream direction for a distance from the discharge port(s) greater than three hundred feet plus the depth of water over the discharge port(s), or extend upstream for a distance of over one hundred feet;

(ii) Not utilize greater than twenty-five percent of the flow; and

(iii) Not occupy greater than twenty-five percent of the width of the water body.

(b) In estuaries, mixing zones, singularly or in combination with other mixing zones, shall:

(i) Not extend in any horizontal direction from the discharge port(s) for a distance greater than two hundred feet plus the depth of water over the discharge port(s) as measured during mean lower low water; and

(ii) Not occupy greater than twenty-five percent of the width of the water body as measured during mean lower low water. For the purpose of this section, areas to the east of a line from Green Point (Fidalgo Island) to Lawrence Point (Orcas Island) are considered estuarine, as are all of the Strait of Georgia and the San Juan Islands north of Orcas Island. To the east of Deception Pass, and to the south and east of Admiralty Head, and south of Point Wilson on the Quimper Peninsula, is Puget Sound proper, which is considered to be entirely estuarine. All waters existing within bays from Point Wilson westward to Cape Flattery and south to the North Jetty of the Columbia River shall also be categorized as estuarine.

(c) In oceanic waters, mixing zones, singularly or in combination with other mixing zones, shall not extend in any horizontal direction from the discharge port(s) for a distance greater than three hundred feet plus the depth of water over the discharge port(s) as measured during mean lower low water. For the purpose of this section, all marine waters not classified as estuarine in (b)(ii) of this subsection shall be categorized as oceanic.

(d) In lakes, and in reservoirs having a mean detention time greater than fifteen days, mixing zones shall not be allowed unless it can be demonstrated to the satisfaction of the department that:

(i) Other siting, technological, and managerial options that would avoid the need for a lake mixing zone are not reasonably achievable;

(ii) Overriding considerations of the public interest will be served; and

(iii) All technological and managerial methods available for pollution reduction and removal that are economically achievable would be implemented prior to discharge. Such methods may include, but not be limited to, advanced waste treatment techniques.

(e) In lakes, and in reservoirs having a mean detention time greater than fifteen days, mixing zones, singularly or in combination with other mixing zones, shall comply with the most restrictive combination of the following:

(i) Not exceed ten percent of the water body volume;

(ii) Not exceed ten percent of the water body surface area (maximum radial extent of the plume regardless of whether it reaches the surface); and

(iii) Not extend beyond fifteen percent of the width of the water body.

(8) Acute criteria are based on numeric criteria and toxicity tests approved by the department, as generally guided under WAC 173-201A-040 (1) through (5), and shall be met as near to the point of discharge as practicably attainable. Compliance shall be determined by monitoring data or calibrated models approved by the department utilizing representative dilution ratios. A zone where acute criteria may be exceeded is allowed only if it can be demonstrated to the department's satisfaction the concentration of, and duration and frequency of exposure to the discharge, will not create a barrier to the migration or translocation of indigenous organ-

isms to a degree that has the potential to cause damage to the ecosystem. A zone of acute criteria exceedance shall singularly or in combination with other such zones comply with the following maximum size requirements:

(a) In rivers and streams, a zone where acute criteria may be exceeded shall comply with the most restrictive combination of the following (this size limitation may also be applied to estuaries having flow characteristics resembling rivers):

(i) Not extend beyond ten percent of the distance towards the upstream and downstream boundaries of an authorized mixing zone, as measured independently from the discharge port(s);

(ii) Not utilize greater than two and one-half percent of the flow; and

(iii) Not occupy greater than twenty-five percent of the width of the water body.

(b) In oceanic and estuarine waters a zone where acute criteria may be exceeded shall not extend beyond ten percent of the distance established in subsection (7)(b) of this section as measured independently from the discharge port(s).

(9) Overlap of mixing zones.

(a) Where allowing the overlap of mixing zones would result in a combined area of water quality criteria nonattainment which does not exceed the numeric size limits established under subsection (7) of this section, the overlap may be permitted if:

(i) The separate and combined effects of the discharges can be reasonably determined; and

(ii) The combined effects would not create a barrier to the migration or translocation of indigenous organisms to a degree that has the potential to cause damage to the ecosystem.

(b) Where allowing the overlap of mixing zones would result in exceedance of the numeric size limits established under subsection (7) of this section, the overlap may be allowed only where:

(i) The overlap qualifies for exemption under subsections (12) and (13) of this section; and

(ii) The overlap meets the requirements established in (a) of this subsection.

(10) Storm water:

(a) Storm water discharge from any "point source" containing "process wastewater" as defined in 40 C.F.R. Part 122.2 shall fully conform to the numeric size criteria in subsections (7) and (8) of this section and the overlap criteria in subsection (9) of this section.

(b) Storm water discharges not described by (a) of this subsection may be granted an exemption to the numeric size criteria in subsections (7) and (8) of this section and the overlap criteria in subsection (9) of this section, provided the discharger clearly demonstrates to the department's satisfaction that:

(i) All appropriate best management practices established for storm water pollutant control have been applied to the discharge.

(ii) The proposed mixing zone shall not have a reasonable potential to result in a loss of sensitive or important habitat, substantially interfere with the existing or characteristic uses of the water body, result in damage to the ecosystem, or adversely affect public health as determined by the department; and

(iii) The proposed mixing zone shall not create a barrier to the migration or translocation of indigenous organisms to a degree that has the potential to cause damage to the ecosystem.

(c) All mixing zones for storm water discharges shall be based on a volume of runoff corresponding to a design storm approved by the department. Exceedances from the numeric size criteria in subsections (7) and (8) of this section and the overlap criteria in subsection (9) of this section due to precipitation events greater than the approved design storm may be allowed by the department, if it would not result in adverse impact to existing or characteristic uses of the water body or result in damage to the ecosystem, or adversely affect public health as determined by the department.

(11) Combined sewer overflows complying with the requirements of chapter 173-245 WAC, may be allowed an average once per year exemption to the numeric size criteria in subsections (7) and (8) of this section and the overlap criteria in subsection (9) of this section, provided the discharge complies with subsection (4) of this section.

(12) Exceedances from the numeric size criteria in subsections (7) and (8) of this section and the overlap criteria in subsection (9) of this section may be considered by the department in the following cases:

(a) For discharges existing prior to November 24, 1992, (or for proposed discharges with engineering plans formally approved by the department prior to November 24, 1992);

(b) Where altering the size configuration is expected to result in greater protection to existing and characteristic uses;

(c) Where the volume of water in the effluent is providing a greater benefit to the existing or characteristic uses of the water body due to flow augmentation than the benefit of removing the discharge, if such removal is the remaining feasible option; or

(d) Where the exceedance is clearly necessary to accommodate important economic or social development in the area in which the waters are located.

(13) Before an exceedance from the numeric size criteria in subsections (7) and (8) of this section and the overlap criteria in subsection (9) of this section may be allowed under subsection (12) of this section, it must clearly be demonstrated to the department's satisfaction that:

(a) AKART appropriate to the discharge is being fully applied;

(b) All siting, technological, and managerial options which would result in full or significantly closer compliance that are economically achievable are being utilized; and

(c) The proposed mixing zone complies with subsection (4) of this section.

(14) Any exemptions granted to the size criteria under subsection (12) of this section shall be reexamined during each permit renewal period for changes in compliance capability. Any significant increase in capability to comply shall be reflected in the renewed discharge permit.

(15) The department may establish permit limits and measures of compliance for human health based criteria (based on lifetime exposure levels), independent of this section.

(16) Sediment impact zones authorized by the department pursuant to chapter 173-204 WAC, Sediment management standards, do not satisfy the requirements of this section.

[Statutory Authority: Chapter 90.48 RCW. 92-24-037 (Order 92-29), § 173-201A-100, filed 11/25/92, effective 12/26/92.]

WAC 173-201A-110 Short-term modifications. The criteria and special conditions established in WAC 173-201A-030 through 173-201A-140 may be modified for a specific water body on a short-term basis when necessary to accommodate essential activities, respond to emergencies, or to otherwise protect the public interest, even though such activities may result in a temporary reduction of water quality conditions below those criteria and classifications established by this regulation. Such activities must be conditioned, timed, and restricted (i.e., hours or days rather than weeks or months) in a manner that will minimize water quality degradation to existing and characteristic uses. In no case will any degradation of water quality be allowed if this degradation significantly interferes with or becomes injurious to characteristic water uses or causes long-term harm to the environment.

(1) A short-term modification may be issued in writing by the director or his/her designee to an individual or entity proposing the aquatic application of pesticides, including but not limited to those used for control of federally or state listed noxious and invasive species, and excess populations of native aquatic plants, mosquitoes, burrowing shrimp, and fish, subject to the following terms and conditions:

(a) A short-term modification will in no way lessen or remove the project proponent's obligations and liabilities under other federal, state and local rules and regulations.

(b) A request for a short-term modification shall be made to the department on forms supplied by the department. Such request shall be made at least thirty days prior to initiation of the proposed activity, and after the project proponent has complied with the requirements of the State Environmental Policy Act (SEPA);

(c) A short-term modification shall be valid for the duration of the activity requiring modification of the criteria and special conditions in WAC 173-201A-030 through 173-201A-140, or for one year, whichever is less. Ecology may authorize a longer duration where the activity is part of an ongoing or long-term operation and maintenance plan, integrated pest or noxious weed management plan, waterbody or watershed management plan, or restoration plan. Such a plan must be developed through a public involvement process consistent with the Administrative Procedure Act (chapter 34.05 RCW) and be in compliance with SEPA, chapter 43.21C RCW, in which case the standards may be modified for the duration of the plan, or for five years, whichever is less;

(d) Appropriate public notice as determined and prescribed by the director or his/her designee shall be given, identifying the pesticide, applicator, location where the pesticide will be applied, proposed timing and method of application, and any water use restrictions specified in USEPA label provisions;

(e) The pesticide application shall be made at times so as to:

(i) Minimize public water use restrictions during weekends; and

(ii) Avoid public water use restrictions during the opening week of fishing season, Memorial Day weekend, Independence Day weekend, and Labor Day weekend;

(f) Any additional conditions as may be prescribed by the director or his/her designee.

(2) A short-term modification may be issued for the control or eradication of noxious weeds identified as such in accordance with the state noxious weed control law, chapter 17.10 RCW, and Control of spartina and purple loosestrife, chapter 17.26 RCW. Short-term modifications for noxious weed control shall be included in a water quality permit issued in accordance with RCW 90.48.445, and the following requirements:

(a) Water quality permits for noxious weed control may be issued to the Washington state department of agriculture (WSDA) for the purposes of coordinating and conducting noxious weed control activities consistent with their responsibilities under chapter 17.10 and 17.26 RCW. Coordination may include noxious weed control activities identified in a WSDA integrated noxious weed management plan and conducted by individual landowners or land managers.

(b) Water quality permits may also be issued to individual landowners or land managers for noxious weed control activities where such activities are not covered by a WSDA integrated noxious weed management plan.

(3) The turbidity criteria established under WAC 173-201A-030 shall be modified to allow a temporary mixing zone during and immediately after necessary in-water or shoreline construction activities that result in the disturbance of in-place sediments. A temporary turbidity mixing zone is subject to the constraints of WAC 173-201A-100 (4) and (6) and is authorized only after the activity has received all other necessary local and state permits and approvals, and after the implementation of appropriate best management practices to avoid or minimize disturbance of in-place sediments and exceedances of the turbidity criteria. A temporary turbidity mixing zone shall be as follows:

(a) For waters up to 10 cfs flow at the time of construction, the point of compliance shall be one hundred feet downstream from activity causing the turbidity exceedance.

(b) For waters above 10 cfs up to 100 cfs flow at the time of construction, the point of compliance shall be two hundred feet downstream of activity causing the turbidity exceedance.

(c) For waters above 100 cfs flow at the time of construction, the point of compliance shall be three hundred feet downstream of activity causing the turbidity exceedance.

(d) For projects working within or along lakes, ponds, wetlands, estuaries, marine waters or other nonflowing waters, the point of compliance shall be at a radius of one hundred fifty feet from activity causing the turbidity exceedance.

[Statutory Authority: Chapter 90.48 RCW and 40 CFR 131. 97-23-064 (Order 94-19), § 173-201A-110, filed 11/18/97, effective 12/19/97. Statutory Authority: Chapter 90.48 RCW. 92-24-037 (Order 92-29), § 173-201A-110, filed 11/25/92, effective 12/26/92.]

WAC 173-201A-120 General classifications. General classifications applying to various surface water bodies not specifically classified under WAC 173-201A-130 or 173-201A-140 are as follows:

(1) All surface waters lying within national parks, national forests, and/or wilderness areas are classified Class AA or Lake Class.

(2) All lakes and their feeder streams within the state are classified Lake Class and Class AA respectively, except for those feeder streams specifically classified otherwise.

(3) All reservoirs with a mean detention time of greater than 15 days are classified Lake Class.

(4) All reservoirs with a mean detention time of 15 days or less are classified the same as the river section in which they are located.

(5) All reservoirs established on preexisting lakes are classified as Lake Class.

(6) All unclassified surface waters that are tributaries to Class AA waters are classified Class AA. All other unclassified surface waters within the state are hereby classified Class A.

[Statutory Authority: Chapter 90.48 RCW. 92-24-037 (Order 92-29), § 173-201A-120, filed 11/25/92, effective 12/26/92.]

WAC 173-201A-130 Specific classifications—Freshwater. Specific fresh surface waters of the state of Washington are classified as follows:

(1)	American River.	Class AA
(2)	Big Quilcene River and tributaries.	Class AA
(3)	Bumping River.	Class AA
(4)	Burnt Bridge Creek.	Class A
(5)	Cedar River from Lake Washington to the Maplewood Bridge (river mile 4.1).	Class A
(6)	Cedar River and tributaries from the Maplewood Bridge (river mile 4.1) to Landsburg Dam (river mile 21.6).	Class AA
(7)	Cedar River and tributaries from Landsburg Dam (river mile 21.6) to headwaters. Special condition - no waste discharge will be permitted.	Class AA
(8)	Chehalis River from upper boundary of Grays Harbor at Cosmopolis (river mile 3.1, longitude 123°45'45" W) to Scammon Creek (river mile 65.8).	Class A
(9)	Chehalis River from Scammon Creek (river mile 65.8) to Newaukum River (river mile 75.2). Special condition - dissolved oxygen shall exceed 5.0 mg/L from June 1 to September 15. For the remainder of the year, the dissolved oxygen shall meet Class A criteria.	Class A
(10)	Chehalis River from Newaukum River (river mile 75.2) to Rock Creek (river mile 106.7).	Class A
(11)	Chehalis River, from Rock Creek (river mile 106.7) to headwaters.	Class AA
(12)	Chehalis River, south fork.	Class A
(13)	Chewuch River.	Class AA
(14)	Chiwawa River.	Class AA
(15)	Cispus River.	Class AA
(16)	Clearwater River.	Class A
(17)	Cle Elum River.	Class AA
(18)	Cloquallum Creek.	Class A
(19)	Clover Creek from outlet of Lake Spanaway to inlet of Lake Steilacoom.	Class A
(20)	Columbia River from mouth to the Washington-Oregon border (river mile 309.3). Special conditions - temperature shall not exceed 20.0°C due to human activities. When natural conditions exceed 20.0°C, no temperature increase will be allowed which will raise the receiving water temperature by greater than 0.3°C; nor shall such temperature increases, at any time, exceed 0.3°C due to any single source or 1.1°C due to all such activities combined. Dissolved oxygen shall exceed 90 percent of saturation. Special condition - special fish passage exemption as described in WAC 173-201A-060 (4)(b).	Class A
(21)	Columbia River from Washington-Oregon border (river mile 309.3) to Grand Coulee Dam (river mile 596.6). Special condition from Washington-Oregon border (river mile 309.3) to Priest Rapids Dam (river mile 397.1). Temperature shall not exceed 20.0°C due to human activities. When natural conditions exceed 20.0°C, no temperature increase will be allowed which will raise the receiving water temperature by greater than 0.3°C; nor shall such temperature increases, at any time, exceed t=34/(T+9). Special condition - special fish passage exemption as described in WAC 173-201A-060 (4)(b).	Class A
(22)	Columbia River from Grand Coulee Dam (river mile 596.6) to Canadian border (river mile 745.0).	Class AA
(23)	Colville River.	Class A
(24)	Coweeman River from mouth to Mulholland Creek (river mile 18.4).	Class A
(25)	Coweeman River from Mulholland Creek (river mile 18.4) to headwaters.	Class AA
(26)	Cowlitz River from mouth to base of Riffe Lake Dam (river mile 52.0).	Class A
(27)	Cowlitz River from base of Riffe Lake Dam (river mile 52.0) to headwaters.	Class AA
(28)	Crab Creek and tributaries.	Class B
(29)	Decker Creek.	Class AA
(30)	Deschutes River from mouth to boundary of Snoqualmie National Forest (river mile 48.2).	Class A
(31)	Deschutes River from boundary of Snoqualmie National Forest (river mile 48.2) to headwaters.	Class AA
(32)	Dickey River.	Class A
(33)	Dosewallips River and tributaries.	Class AA
(34)	Duckabush River and tributaries.	Class AA
(35)	Dungeness River from mouth to Canyon Creek (river mile 10.8).	Class A
(36)	Dungeness River and tributaries from Canyon Creek (river mile 10.8) to headwaters.	Class AA
(37)	Duwamish River from mouth south of a line bearing 254° true from the NW corner of berth 3, terminal No. 37 to the Black River (river mile 11.0) (Duwamish River continues as the Green River above the Black River).	Class B
(38)	Elochoman River.	Class A
(39)	Elwha River and tributaries.	Class AA
(40)	Entiat River from Wenatchee National Forest boundary (river mile 20.5) to headwaters.	Class AA
(41)	Grande Ronde River from mouth to Oregon border (river mile 37). Special condition - temperature shall not exceed 20.0°C due to human activities. When natural conditions exceed 20.0°C, no temperature increase will be allowed which will raise the receiving water temperature by greater than 0.3°C; nor shall such temperature increases, at any time, exceed t=34/(T+9).	Class A
(42)	Grays River from Grays River Falls (river mile 15.8) to headwaters.	Class AA
(43)	Green River (Cowlitz County).	Class AA

(44)	Green River (King County) from Black River (river mile 11.0 and point where Duwamish River continues as the Green River) to west boundary of Sec. 27-T21N-R6E (west boundary of Flaming Geyser State Park at river mile 42.3).	Class A
(45)	Green River (King County) from west boundary of Sec. 27-T21N-R6E (west boundary of Flaming Geyser State Park, river mile 42.3) to west boundary of Sec. 13-T21N-R7E (river mile 59.1).	Class AA
(46)	Green River and tributaries (King County) from west boundary of Sec. 13-T21N-R7E (river mile 59.1) to headwaters. Special condition - no waste discharge will be permitted.	Class AA
(47)	Hamma Hamma River and tributaries.	Class AA
(48)	Hanaford Creek from mouth to east boundary of Sec. 25-T15N-R2W (river mile 4.1). Special condition - dissolved oxygen shall exceed 6.5 mg/L.	Class A
(49)	Hanaford Creek from east boundary of Sec. 25-T15N-R2W (river mile 4.1) to headwaters.	Class A
(50)	Hoh River and tributaries.	Class AA
(51)	Hoquiam River (continues as west fork above east fork) from mouth to river mile 9.3 (Dekay Road Bridge) (upper limit of tidal influence).	Class B
(52)	Humptulips River and tributaries from mouth to Olympic National Forest boundary on east fork (river mile 12.8) and west fork (river mile 40.4) (main stem continues as west fork).	Class A
(53)	Humptulips River, east fork from Olympic National Forest boundary (river mile 12.8) to headwaters.	Class AA
(54)	Humptulips River, west fork from Olympic National Forest boundary (river mile 40.4) to headwaters.	Class AA
(55)	Issaquah Creek.	Class A
(56)	Kalama River from lower Kalama River Falls (river mile 10.4) to headwaters.	Class AA
(57)	Klickitat River from Little Klickitat River (river mile 19.8) to boundary of Yakima Indian Reservation.	Class AA
(58)	Lake Washington Ship Canal from Government Locks (river mile 1.0) to Lake Washington (river mile 8.6). Special condition - salinity shall not exceed one part per thousand (1.0 ppt) at any point or depth along a line that transects the ship canal at the University Bridge (river mile 6.1).	Lake Class
(59)	Lewis River, east fork, from Multon Falls (river mile 24.6) to headwaters.	Class AA
(60)	Little Wenatchee River.	Class AA
(61)	Methow River from mouth to Chewuch River (river mile 50.1).	Class A
(62)	Methow River from Chewuch River (river mile 50.1) to headwaters.	Class AA
(63)	Mill Creek from mouth to 13th Street Bridge in Walla Walla (river mile 6.4). Special condition - dissolved oxygen concentration shall exceed 5.0 mg/L.	Class B
(64)	Mill Creek from 13th Street Bridge in Walla Walla (river mile 6.4) to Walla Walla Waterworks Dam (river mile 11.5).	Class A
(65)	Mill Creek and tributaries from city of Walla Walla Waterworks Dam (river mile 21.6) to headwaters. Special condition - no waste discharge will be permitted.	Class AA
(66)	Naches River from Snoqualmie National Forest boundary (river mile 35.7) to headwaters.	Class AA
(67)	Naselle River from Naselle "Falls" (cascade at river mile 18.6) to headwaters.	Class AA
(68)	Newaukum River.	Class A
(69)	Nisqually River from mouth to Alder Dam (river mile 44.2).	Class A
(70)	Nisqually River from Alder Dam (river mile 44.2) to headwaters.	Class AA
(71)	Nooksack River from mouth to Maple Creek (river mile 49.7).	Class A
(72)	Nooksack River from Maple Creek (river mile 49.7) to headwaters.	Class AA
(73)	Nooksack River, south fork, from mouth to Skookum Creek (river mile 14.3).	Class A
(74)	Nooksack River, south fork, from Skookum Creek (river mile 14.3) to headwaters.	Class AA
(75)	Nooksack River, middle fork.	Class AA
(76)	Okanogan River.	Class A
(77)	Palouse River from mouth to south fork (Colfax, river mile 89.6).	Class B
(78)	Palouse River from south fork (Colfax, river mile 89.6) to Idaho border (river mile 123.4). Special condition - temperature shall not exceed 20.0°C due to human activities. When natural conditions exceed 20.0°C, no temperature increase will be allowed which will raise the receiving water temperature by greater than 0.3°C; nor shall such temperature increases, at any time, exceed t=34/(T+9).	Class A
(79)	Pend Oreille River from Canadian border (river mile 16.0) to Idaho border (river mile 87.7). Special condition - temperature shall not exceed 20.0°C due to human activities. When natural conditions exceed 20.0°C, no temperature increase will be allowed which will raise the receiving water temperature by greater than 0.3°C; nor shall such temperature increases, at any time, exceed t=34/(T+9).	Class A
(80)	Pilchuck River from city of Snohomish Waterworks Dam (river mile 26.8) to headwaters.	Class AA
(81)	Puyallup River from mouth to river mile 1.0.	Class B
(82)	Puyallup River from river mile 1.0 to Kings Creek (river mile 31.6).	Class A
(83)	Puyallup River from Kings Creek (river mile 31.6) to headwaters.	Class AA
(84)	Queets River and tributaries.	Class AA
(85)	Quillayute River.	Class AA
(86)	Quinault River and tributaries.	Class AA
(87)	Salmon Creek (Clark County).	Class A
(88)	Satsop River from mouth to west fork (river mile 6.4).	Class A
(89)	Satsop River, east fork.	Class AA
(90)	Satsop River, middle fork.	Class AA
(91)	Satsop River, west fork.	Class AA
(92)	Skagit River from mouth to Skiyou Slough-lower end (river mile 25.6).	Class A
(93)	Skagit River and tributaries (includes Baker, Suak, Suiattle, and Cascade rivers) from Skiyou Slough-lower end, (river mile 25.6) to Canadian border (river mile 127.0). Special condition - Skagit River (Gorge by-pass reach) from Gorge Dam (river mile 96.6) to Gorge Powerhouse (river mile 94.2). Temperature shall not exceed 21°C due to human activities. When natural conditions exceed 21°C, no temperature increase will be allowed which will raise the receiving water temperature by greater than 0.3°C, nor shall such temperature increases, at any time, exceed t=34/(T+9).	Class AA
(94)	Skokomish River and tributaries.	Class AA
(95)	Skookumchuck River from Bloody Run Creek (river mile 21.4) to headwaters.	Class AA
(96)	Skykomish River from mouth to May Creek (above Gold Bar at river mile 41.2).	Class A
(97)	Skykomish River from May Creek (above Gold Bar at river mile 41.2) to headwaters.	Class AA
(98)	Snake River from mouth to Washington-Idaho-Oregon border (river mile 176.1). Special condition:	

(a)	Below Clearwater River (river mile 139.3). Temperature shall not exceed 20.0°C due to human activities. When natural conditions exceed 20.0°C, no temperature increase will be allowed which will raise the receiving water temperature by greater than 0.3°C; nor shall such temperature increases, at any time, exceed t=34/(T+9). Special condition - special fish passage exemption as described in WAC 173-201A-060 (4)(b).	
(b)	Above Clearwater River (river mile 139.3). Temperature shall not exceed 20.0°C due to human activities. When natural conditions exceed 20.0°C, no temperature increases will be allowed which will raise the receiving water temperature by greater than 0.3°C; nor shall such temperature increases, at any time, exceed 0.3°C due to any single source or 1.1°C due to all such activities combined.	Class A
(99)	Snohomish River from mouth and east of longitude 122°13'40"W upstream to latitude 47°56'30"N (southern tip of Ebey Island at river mile 8.1). Special condition - fecal coliform organism levels shall both not exceed a geometric mean value of 200 colonies/100 mL and not have more than 10 percent of the samples obtained for calculating the mean value exceeding 400 colonies/100 mL.	Class A
(100)	Snohomish River upstream from latitude 47°56'30"N (southern tip of Ebey Island river mile 8.1) to confluence with Skykomish and Snoqualmie River (river mile 20.5).	Class A
(101)	Snoqualmie River and tributaries from mouth to west boundary of Twin Falls State Park on south fork (river mile 9.1).	Class A
(102)	Snoqualmie River, middle fork.	Class AA
(103)	Snoqualmie River, north fork.	Class AA
(104)	Snoqualmie River, south fork, from west boundary of Twin Falls State Park (river mile 9.1) to headwaters.	Class AA
(105)	Soleduck River and tributaries.	Class AA
(106)	Spokane River from mouth to Long Lake Dam (river mile 33.9). Special condition - temperature shall not exceed 20.0°C due to human activities. When natural conditions exceed 20.0°C, no temperature increase will be allowed which will raise the receiving water temperature by greater than 0.3°C; nor shall such temperature increases, at any time, exceed t=34/(T+9).	Class A
(107)	Spokane River from Long Lake Dam (river mile 33.9) to Nine Mile Bridge (river mile 58.0). Special conditions:	
(a)	The average euphotic zone concentration of total phosphorus (as P) shall not exceed 25µg/L during the period of June 1 to October 31.	
(b)	Temperature shall not exceed 20.0°C, due to human activities. When natural conditions exceed 20.0°C, no temperature increase will be allowed which will raise the receiving water temperature by greater than 0.3°C; nor shall such temperature increases, at any time exceed t=34/(T+9).	Lake Class
(108)	Spokane River from Nine Mile Bridge (river mile 58.0) to the Idaho border (river mile 96.5). Temperature shall not exceed 20.0°C due to human activities. When natural conditions exceed 20.0°C no temperature increase will be allowed which will raise the receiving water temperature by greater than 0.3°C; nor shall such temperature increases, at any time exceed t=34/(T+9).	Class A
(109)	Stehekin River.	Class AA
(110)	Stillaguamish River from mouth to north and south forks (river mile 17.8).	Class A
(111)	Stillaguamish River, north fork, from mouth to Squire Creek (river mile 31.2).	Class A
(112)	Stillaguamish River, north fork, from Squire Creek (river mile 31.2) to headwaters.	Class AA
(113)	Stillaguamish River, south fork, from mouth to Canyon Creek (river mile 33.7).	Class A
(114)	Stillaguamish River, south fork, from Canyon Creek (river mile 33.7) to headwaters.	Class AA
(115)	Sulphur Creek.	Class B
(116)	Sultan River from mouth to Chaplain Creek (river mile 5.9).	Class A
(117)	Sultan River and tributaries from Chaplain Creek (river mile 5.9) to headwaters. Special condition - no waste discharge will be permitted above city of Everett Diversion Dam (river mile 9.4).	Class AA
(118)	Sumas River from Canadian border (river mile 12) to headwaters (river mile 23).	Class A
(119)	Tieton River.	Class AA
(120)	Tolt River, south fork and tributaries from mouth to west boundary of Sec. 31-T26N-R9E (river mile 6.9).	Class AA
(121)	Tolt River, south fork from west boundary of Sec. 31-T26N-R9E (river mile 6.9) to headwaters. Special condition - no waste discharge will be permitted.	Class AA
(122)	Touchet River, north fork from Dayton water intake structure (river mile 3.0) to headwaters.	Class AA
(123)	Toutle River, north fork, from Green River to headwaters.	Class AA
(124)	Toutle River, south fork.	Class AA
(125)	Tucannon River from Umatilla National Forest boundary (river mile 38.1) to headwaters.	Class AA
(126)	Twisp River.	Class AA
(127)	Union River and tributaries from Bremerton Waterworks Dam (river mile 6.9) to headwaters. Special condition - no waste discharge will be permitted.	Class AA
(128)	Walla Walla River from mouth to Lowden (Dry Creek at river mile 27.2).	Class B
(129)	Walla Walla River from Lowden (Dry Creek at river mile 27.2) to Oregon border (river mile 40). Special condition - temperature shall not exceed 20.0°C due to human activities. When natural conditions exceed 20.0°C, no temperature increase will be allowed which will raise the receiving water temperature by greater than 0.3°C; nor shall such temperature increases, at any time, exceed t=34/(T+9).	Class A
(130)	Wenatchee River from Wenatchee National Forest boundary (river mile 27.1) to headwaters.	Class AA
(131)	White River (Pierce-King counties) from Mud Mountain Dam (river mile 27.1) to headwaters.	Class AA
(132)	White River (Chelan County).	Class AA
(133)	Wildcat Creek.	Class A
(134)	Willapa River upstream of a line bearing 70° true through Mailboat Slough light (river mile 1.8).	Class A
(135)	Wishkah River from mouth to river mile 6 (SW 1/4 SW 1/4 NE 1/4 Sec. 21-T18N-R9W).	Class B
(136)	Wishkah River from river mile 6 (SW 1/4 SW 1/4 NE 1/4 Sec. 21-T18N-R9W) to west fork (river mile 17.7).	Class A
(137)	Wishkah River from west fork of Wishkah River (river mile 17.7) to south boundary of Sec. 33-T21N-R8W (river mile 32.0).	Class AA
(138)	Wishkah River and tributaries from south boundary of Sec. 33-T21N-R8W (river mile 32.0) to headwaters. Special condition - no waste discharge will be permitted.	Class AA
(139)	Wynoochee River from mouth to Olympic National Forest boundary (river mile 45.9).	Class A
(140)	Wynoochee River from Olympic National Forest boundary (river mile 45.9) to headwaters.	Class AA

(141)	Yakima River from mouth to Cle Elum River (river mile 185.6). Special condition - temperature shall not exceed 21.0°C due to human activities. When natural conditions exceed 21.0°C, no temperature increase will be allowed which will raise the receiving water temperature by greater than 0.3°C; nor shall such temperature increases, at any time, exceed t=34/(T+9).	Class A
(142)	Yakima River from Cle Elum River (river mile 185.6) to headwaters.	Class AA

[Statutory Authority: Chapter 90.48 RCW and 40 CFR 131. 97-23-064 (Order 94-19), § 173-201A-130, filed 11/18/97, effective 12/19/97. Statutory Authority: Chapter 90.48 RCW. 92-24-037 (Order 92-29), § 173-201A-130, filed 11/25/92, effective 12/26/92.]

WAC 173-201A-140 Specific classifications—Marine water. Specific marine surface waters of the state of Washington are classified as follows:

(1)	Budd Inlet south of latitude 47°04'N (south of Priest Point Park).	Class B
(2)	Coastal waters: Pacific Ocean from Ilwaco to Cape Flattery.	Class AA
(3)	Commencement Bay south and east of a line bearing 258° true from "Brown's Point" and north and west of line bearing 225° true through the Hylebos waterway light.	Class A
(4)	Commencement Bay, inner, south and east of a line bearing 225° true through Hylebos waterway light except the city waterway south and east of south 11th Street.	Class B
(5)	Commencement Bay, city waterway south and east of south 11th Street.	Class C
(6)	Drayton Harbor, south of entrance.	Class A
(7)	Dyes and Sinclair Inlets west of longitude 122°37'W.	Class A
(8)	Elliott Bay east of a line between Pier 91 and Duwamish head.	Class A
(9)	Everett Harbor, inner, northeast of a line bearing 121° true from approximately 47°59'5"N and 122°13'44"W (southwest corner of the pier).	Class B
(10)	Grays Harbor west of longitude 123°59'W.	Class A
(11)	Grays Harbor east of longitude 123°59'W to longitude 123°45'45"W (Cosmopolis Chehalis River, river mile 3.1). Special condition -dissolved oxygen shall exceed 5.0 mg/L.	Class B
(12)	Guemes Channel, Padilla, Samish and Bellingham Bays east of longitude 122°39'W and north of latitude 48°27'20"N.	Class A
(13)	Hood Canal.	Class AA
(14)	Mukilteo and all North Puget Sound west of longitude 122°39' W (Whidbey, Fidalgo, Guemes and Lummi Islands and State Highway 20 Bridge at Deception Pass), except as otherwise noted.	Class AA
(15)	Oakland Bay west of longitude 123°05'W (inner Shelton harbor).	Class B
(16)	Port Angeles south and west of a line bearing 152° true from buoy "2" at the tip of Ediz Hook.	Class A
(17)	Port Gamble south of latitude 47°51'20"N.	Class A
(18)	Port Townsend west of a line between Point Hudson and Kala Point.	Class A
(19)	Possession Sound, south of latitude 47°57'N.	Class AA
(20)	Possession Sound, Port Susan, Saratoga Passage, and Skagit Bay east of Whidbey Island and State Highway 20 Bridge at Deception Pass between latitude 47°57'N (Mukilteo) and latitude 48°27'20"N (Similk Bay), except as otherwise noted.	Class A
(21)	Puget Sound through Admiralty Inlet and South Puget Sound, south and west to longitude 122°52'30"W (Brisco Point) and longitude 122°51'W (northern tip of Hartstene Island).	Class AA
(22)	Sequim Bay southward of entrance.	Class AA
(23)	South Puget Sound west of longitude 122°52'30"W (Brisco Point) and longitude 122°51'W (northern tip of Hartstene Island, except as otherwise noted).	Class A
(24)	Strait of Juan de Fuca.	Class AA
(25)	Totten Inlet and Little Skookum Inlet, west of longitude 122°56'32" (west side of Steamboat Island).	Class AA
(26)	Willapa Bay seaward of a line bearing 70° true through Mailboat Slough light (Willapa River, river mile 1.8).	Class A

[Statutory Authority: Chapter 90.48 RCW and 40 CFR 131. 97-23-064 (Order 94-19), § 173-201A-140, filed 11/18/97, effective 12/19/97. Statutory Authority: Chapter 90.48 RCW. 92-24-037 (Order 92-29), § 173-201A-140, filed 11/25/92, effective 12/26/92.]

WAC 173-201A-150 Achievement considerations. To fully achieve and maintain the foregoing water quality in the state of Washington, it is the intent of the department to apply the various implementation and enforcement authorities at its disposal, including participation in the programs of the federal Clean Water Act (33 U.S.C. 1251 et seq.) as appropriate. It is also the intent that cognizance will be taken of the need for participation in cooperative programs with other state agencies and private groups with respect to the management of related problems. The department's planned program for water pollution control will be defined and revised annually in accordance with section 106 of said federal act. Further, it shall be required that all activities which discharge wastes into waters within the state, or otherwise adversely affect the quality of said waters, be in compliance with the waste treatment and discharge provisions of state or federal law.

[Statutory Authority: Chapter 90.48 RCW. 92-24-037 (Order 92-29), § 173-201A-150, filed 11/25/92, effective 12/26/92.]

WAC 173-201A-160 Implementation. (1) **Discharges from municipal, commercial, and industrial operations.** The primary means to be used for controlling municipal, commercial, and industrial waste discharges shall be through the issuance of waste disposal permits, as provided for in RCW 90.48.160, 90.48.162, and 90.48.260.

(2) **Miscellaneous waste discharge or water quality effect sources.** The director shall, through the issuance of regulatory permits, directives, and orders, as are appropriate, control miscellaneous waste discharges and water quality effect sources not covered by subsection (1) of this section.

(3) **Nonpoint source and storm water pollution.**

(a) Activities which generate nonpoint source pollution shall be conducted so as to comply with the water quality standards. The primary means to be used for requiring compliance with the standards shall be through best management practices required in waste discharge permits, rules, orders, and directives issued by the department for activities which generate nonpoint source pollution.

(b) Best management practices shall be applied so that when all appropriate combinations of individual best management practices are utilized, violation of water quality cri-

teria shall be prevented. If a discharger is applying all best management practices appropriate or required by the department and a violation of water quality criteria occurs, the discharger shall modify existing practices or apply further water pollution control measures, selected or approved by the department, to achieve compliance with water quality criteria. Best management practices established in permits, orders, rules, or directives of the department shall be reviewed and modified, as appropriate, so as to achieve compliance with water quality criteria.

(c) Activities which contribute to nonpoint source pollution shall be conducted utilizing best management practices to prevent violation of water quality criteria. When applicable best management practices are not being implemented, the department may conclude individual activities are causing pollution in violation of RCW 90.48.080. In these situations, the department may pursue orders, directives, permits, or civil or criminal sanctions to gain compliance with the standards.

(d) Activities which cause pollution of storm water shall be conducted so as to comply with the water quality standards. The primary means to be used for requiring compliance with the standards shall be through best management practices required in waste discharge permits, rules, orders, and directives issued by the department for activities which generate storm water pollution. The consideration and control procedures in (b) and (c) of this subsection apply to the control of pollutants in storm water.

(4) **Allowance for compliance schedules.**

(a) Permits, orders, and directives of the department for existing discharges may include a schedule for achieving compliance with water quality criteria contained in this chapter. Such schedules of compliance shall be developed to ensure final compliance with all water quality-based effluent limits in the shortest practicable time. Decisions regarding whether to issue schedules of compliance will be made on a case-by-case basis by the department. Schedules of compliance may not be issued for new discharges. Schedules of compliance may be issued to allow for: (i) construction of necessary treatment capability; (ii) implementation of necessary best management practices; (iii) implementation of additional storm water best management practices for discharges determined not to meet water quality criteria following implementation of an initial set of best management practices; (iv) completion of necessary water quality studies; or (v) resolution of a pending water quality standards' issue through rule-making action.

(b) For the period of time during which compliance with water quality criteria is deferred, interim effluent limitations shall be formally established, based on the best professional judgment of the department. Interim effluent limitations may be numeric or nonnumeric (e.g., construction of necessary facilities by a specified date as contained in an ecology order or permit).

(c) Prior to establishing a schedule of compliance, the department shall require the discharger to evaluate the possibility of achieving water quality criteria via nonconstruction changes (e.g., facility operation, pollution prevention). Schedules of compliance may in no case exceed ten years, and shall generally not exceed the term of any permit.

[Statutory Authority: Chapter 90.48 RCW and 40 CFR 131. 97-23-064 (Order 94-19), § 173-201A-160, filed 11/18/97, effective 12/19/97. Statutory Authority: Chapter 90.48 RCW. 92-24-037 (Order 92-29), § 173-201A-160, filed 11/25/92, effective 12/26/92.]

WAC 173-201A-170 Surveillance. A continuing surveillance program, to ascertain whether the regulations, waste disposal permits, orders, and directives promulgated and/or issued by the department are being complied with, will be conducted by the department staff as follows:

(1) Inspecting treatment and control facilities.

(2) Monitoring and reporting waste discharge characteristics.

(3) Monitoring receiving water quality.

[Statutory Authority: Chapter 90.48 RCW. 92-24-037 (Order 92-29), § 173-201A-170, filed 11/25/92, effective 12/26/92.]

WAC 173-201A-180 Enforcement. To insure that the provisions of chapter 90.48 RCW, the standards for water quality promulgated herein, the terms of waste disposal permits, and other orders and directives of the department are fully complied with, the following enforcement tools will be relied upon by the department, in cooperation with the attorney general as it deems appropriate:

(1) Issuance of notices of violation and regulatory orders as provided for in RCW 90.48.120.

(2) Initiation of actions requesting injunctive or other appropriate relief in the various courts of the state as provided for in RCW 90.48.037.

(3) Levying of civil penalties as provided for in RCW 90.48.144.

(4) Initiation of a criminal proceeding by the appropriate county prosecutor as provided for in RCW 90.48.140.

(5) Issuance of regulatory orders or directives as provided for in RCW 90.48.240.

[Statutory Authority: Chapter 90.48 RCW. 92-24-037 (Order 92-29), § 173-201A-180, filed 11/25/92, effective 12/26/92.]

Chapter 173-204 WAC
SEDIMENT MANAGEMENT STANDARDS

WAC

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PART I—GENERAL INFORMATION

WAC 173-204-100 Authority and purpose. (1) This chapter is promulgated under the authority of chapter 90.48 RCW, the Water Pollution Control Act; chapter 70.105D RCW, the Model Toxics Control Act; chapter 90.70 RCW, the Puget Sound Water Quality Authority Act; chapter 90.52 RCW, the Pollution Disclosure Act of 1971; chapter 90.54 RCW, the Water Resources Act of 1971; and chapter 43.21C RCW, the state Environmental Policy Act, to establish marine, low salinity and freshwater surface sediment management standards for the state of Washington.

(2) The purpose of this chapter is to reduce and ultimately eliminate adverse effects on biological resources and significant health threats to humans from surface sediment contamination by:

(a) Establishing standards for the quality of surface sediments;

(b) Applying these standards as the basis for management and reduction of pollutant discharges; and

(c) Providing a management and decision process for the cleanup of contaminated sediments.

(3) Part III, Sediment quality standards of this chapter provides chemical concentration criteria, biological effects criteria, human health criteria, and other toxic, radioactive, biological, or deleterious substances criteria which identify surface sediments that have no adverse effects, including no acute or chronic adverse effects on biological resources and no significant health risk to humans, as defined in this regulation. The sediment quality standards provide a regulatory and management goal for the quality of sediments throughout the state.

(4) The sediment criteria of WAC 173-204-320 through 173-204-340 shall constitute surface sediment quality standards and be used to establish an inventory of surface sediment sampling stations where the sediments samples taken from these stations are determined to pass or fail the applicable sediment quality standards.

(5) Part IV, Sediment source control standards of this chapter shall be used as a basis for controlling the effects of point and nonpoint source discharges to sediments through the National Pollutant Discharge Elimination System (NPDES) federal permit program, state water quality management permit programs, issuance of administrative orders or other means determined appropriate by the department. The source control standards establish discharge sediment monitoring requirements and criteria for establishment and maintenance of sediment impact zones.

(6) Part V, Sediment cleanup standards of this chapter establishes administrative procedural requirements and criteria to identify, screen, rank and prioritize, and cleanup contaminated surface sediment sites. The sediment cleanup standards of WAC 173-204-500 through 173-204-590 shall be used pursuant to authorities established under chapters 90.48 and 70.105D RCW.

(7) This chapter establishes and defines a goal of minor adverse effects as the maximum level of sediment contamination allowed in sediment impact zones under the provisions of Part IV, Sediment source control standards and as the cleanup screening levels for identification of sediment cleanup sites and as the minimum cleanup levels to be achieved in all cleanup actions under Part V, Sediment cleanup standards.

(8) Local ordinances establishing requirements for the designation and management of marine, low salinity and freshwater sediments shall not be less stringent than this chapter.

Note: All codes, standards, statutes, rules or regulations cited in this chapter are available for inspection at the Department of Ecology, P.O. Box 47703, Olympia, Washington 98504-7703.

[Statutory Authority: RCW 90.48.220. 96-02-058, § 173-204-100, filed 12/29/95, effective 1/29/96. Statutory Authority: Chapters 43.21C, 70.105D, 90.48, 90.52, 90.54 and 90.70 RCW. 91-08-019 (Order 90-41), § 173-204-100, filed 3/27/91, effective 4/27/91.]

WAC 173-204-110 Applicability. (1) The sediment quality standards of WAC 173-204-300 through 173-204-315, and 173-204-350, and the sediment cleanup standards of WAC 173-204-500 through 173-204-580 shall apply to all surface sediments.

(2) The sediment quality standards of WAC 173-204-320, 173-204-330, and 173-204-340 shall apply to marine, low salinity and freshwater surface sediments, respectively.

(3) The source control standards of WAC 173-204-400 through 173-204-420 shall apply to each person's actions which exposes or resuspends surface sediments which exceed, or otherwise cause or potentially cause surface sediments to exceed, the applicable standards of WAC 173-204-320 through 173-204-340.

(4) The sediment recovery zone standards of WAC 173-204-590 shall apply to each person's cleanup action decision made pursuant to WAC 173-204-580 where the selected cleanup action leaves in place marine, low salinity, or freshwater sediments that exceed the applicable sediment quality standards of WAC 173-204-320 through 173-204-340.

(5) The sediment quality standards of WAC 173-204-320 through 173-204-340 shall not apply:

(a) Within a sediment impact zone as authorized by the department under WAC 173-204-415; or

(b) Within a sediment recovery zone as authorized by the department under WAC 173-204-590; or

(c) To particulates suspended in the water column; or

(d) To particulates suspended in a permitted effluent discharge.

(6) Nothing in this chapter shall constrain the department's authority to make appropriate sediment management decisions on a case-specific basis using best professional judgment and latest scientific knowledge for cases where the standards of this chapter are reserved or standards are not available.

[Statutory Authority: Chapters 43.21C, 70.105D, 90.48, 90.52, 90.54 and 90.70 RCW. 91-08-019 (Order 90-41), § 173-204-110, filed 3/27/91, effective 4/27/91.]

WAC 173-204-120 Antidegradation and designated use policies. (1) Antidegradation policy. The antidegradation policy of the state of Washington as generally guided by chapters 90.48 and 90.54 RCW, is applicable to any person's new or increased activity and shall apply to this chapter as follows:

(a) Existing beneficial uses shall be maintained and protected and no further degradation which would interfere with or become injurious to existing beneficial uses shall be allowed.

(b) No degradation of existing sediment quality shall be allowed of waters constituting an outstanding national resource, such as waters of national and state parks and scenic and recreation areas, wildlife refuges, and waters of exceptional recreational or ecological significance.

(c) Whenever surface sediments are of a higher quality (i.e., lower chemical concentrations or adverse biological response) than the criteria assigned to said sediments, the existing surface sediment quality shall be protected and waste and other materials and substances shall not be allowed to contaminate such sediments or reduce the existing sediment quality thereof, except in those instances where:

(i) It is clear, after satisfactory public participation and intergovernmental coordination, that overriding considerations of the public interest will be served;

(ii) All wastes and other materials and substances proposed for discharge that may contaminate such sediments are provided with all known, available and reasonable methods of prevention, control, and treatment and/or best management practices;

(iii) The reduction of existing surface sediment quality is authorized by the department; and

(iv) Existing beneficial uses are maintained and protected, and no degradation which would interfere with and/or become injurious to existing sediment beneficial uses and/or causes long-term, irreparable harm to the environment is allowed.

(2) Designated use policy. The policy of the department and the purpose of this chapter shall be to manage waste discharges and sediment quality so as to protect existing beneficial uses and move towards attainment of designated beneficial uses as specified in section 101 (a)(2) of the federal Clean Water Act (33 USC 1251, et seq.) and chapter 173-201 WAC, the Water quality standards for surface waters of the state of Washington. This policy is applicable to any person's existing or proposed actions which may affect surface sediment quality.

[Statutory Authority: Chapters 43.21C, 70.105D, 90.48, 90.52, 90.54 and 90.70 RCW. 91-08-019 (Order 90-41), § 173-204-120, filed 3/27/91, effective 4/27/91.]

WAC 173-204-130 Administrative policies. The department shall implement this chapter in accordance with the following policies:

(1) The department shall seek to implement, and as necessary modify this chapter to protect biological resources and human health consistent with WAC 173-204-100(2). To implement the intent of this subsection, the department shall use methods that accurately reflect the latest scientific knowledge consistent with the definitions contained in WAC 173-204-200 (14) and (15), as applicable.

(2) At the interface between surface sediments, ground water or surface water, the applicable standards shall depend on which beneficial use is or could be adversely affected, as determined by the department. If beneficial uses of more than one resource are affected, the most restrictive standards shall apply.

(3) It shall be the goal of the department to modify this chapter so that methods such as confirmatory biological tests, sediment impact zone models, use of contaminated sediment site ranking models, etc., continue to accurately reflect the latest scientific knowledge as established through ongoing validation and refinement.

(4) Any person or the department may propose an alternate technical method to replace or enhance the application of a specific technical method required under this chapter. Using best professional judgment, the department shall provide advance review and approval of any alternate technical method proposed prior to its application. Application and use of alternate technical methods shall be allowed when the department determines that the technical merit of the resulting decisions will improve the department's ability to implement and meet the intent of this chapter as described in WAC 173-204-100(2), and will remain consistent with the scientific intent of definitions contained in WAC 173-204-200 (14) and (15). The department shall maintain a record of the department's decisions concerning application for use of alternate technical methods pursuant to this subsection. The record shall be made available to the public on request.

(5) Intergovernmental coordination. The department shall ensure appropriate coordination and consultation with federally recognized Indian tribes and local, state, and federal agencies to provide information on and to implement this chapter.

(6) The department shall conduct an annual review of this chapter, and modify its provisions every three years, or as necessary. Revision to this chapter shall be made pursuant to the procedures established within chapter 34.05 RCW, the Administrative Procedure Act.

(7) Review of scientific information. When evaluating this chapter for necessary revisions, the factors the department shall consider include:

(a) New or additional scientific information which is available relating surface sediment chemical quality to acute or chronic adverse effects on biological resources as defined in WAC 173-204-200 (1) and (7);

(b) New or additional scientific information which is available relating human health risk to marine, low salinity, or freshwater surface sediment chemical contaminant levels;

(c) New or additional scientific information which is available relating levels of other toxic, radioactive, biological

and deleterious substances in marine, low salinity, or freshwater sediments to acute or chronic adverse effects on biological resources, or to a significant health risk to humans;

(d) New state or federal laws which have established environmental or human health protection standards applicable to surface sediment; or

(e) Scientific information which has been identified for addition, modification or deletion by a scientific review process established by the department.

(8) Public involvement and education. The goal of the department shall be to provide timely information and meaningful opportunities for participation by the public in the annual review conducted by the department under subsection (6) of this section, and any modification of this chapter. To meet the intent of this subsection the department shall:

(a) Provide public notice of the department's decision regarding the results of its annual review of this chapter, including:

(i) The department's findings for the annual review factors identified in subsection (7) of this section;

(ii) The department's decision regarding the need for modification of this chapter based on its annual review; and

(iii) Identification of a time period for public opportunity to comment on the department's findings and decisions pursuant to this subsection.

(b) Provide public notice by mail or by additional procedures determined necessary by the department which may include:

(i) Newspaper publication;

(ii) Other news media;

(iii) Press releases;

(iv) Fact sheets;

(v) Publications;

(vi) Any other method as determined by the department.

(c) Conduct public meetings as determined necessary by the department to educate and inform the public regarding the department's annual review determinations and decisions.

(d) Comply with the rule making and public participation requirements of chapter 34.05 RCW, the Administrative Procedure Act, for any revisions to this chapter.

(9) Test sediments evaluated for compliance with the sediment quality standards of WAC 173-204-320 through 173-204-340 and/or the sediment impact zone maximum criteria of WAC 173-204-420 and/or the cleanup screening levels criteria of WAC 173-204-520 shall be sampled and analyzed using the Puget Sound Protocols or other methods approved by the department. Determinations made pursuant to this chapter shall be based on sediment chemical and/or biological data that were developed using an appropriate quality assurance/quality control program, as determined by the department.

(10) The statutory authority for decisions under this chapter shall be clearly stated in the decision documents prepared pursuant to this chapter. The department shall undertake enforcement actions consistent with the stated authority under which the action is taken. The process for judicial review of these decisions shall be pursuant to the statutes under which the action is being taken.

(11) When the department identifies this chapter as an applicable, or relevant and appropriate requirement for a federal cleanup action under the Comprehensive Environmental Response, Compensation and Liability Act, the department shall identify the entire contents of this chapter as the appropriate state requirement.

[Statutory Authority: RCW 90.48.220. 96-02-058, § 173-204-130, filed 12/29/95, effective 1/29/96. Statutory Authority: Chapters 43.21C, 70.105D, 90.48, 90.52, 90.54 and 90.70 RCW. 91-08-019 (Order 90-41), § 173-204-130, filed 3/27/91, effective 4/27/91.]

PART II—DEFINITIONS

WAC 173-204-200 Definitions. For the purpose of this chapter, the following definitions shall apply:

(1) "Acute" means measurements of biological effects using surface sediment bioassays conducted for time periods that are relatively short in comparison to the life cycle of the test organism. Acute effects may include mortality, larval abnormality, or other endpoints determined appropriate by the department.

(2) "Amphipod" means crustacean of the Class Amphipoda, e.g., Rhepoxynius abronius, Ampelisca abdita, or Eohaustorius estuarius.

(3) "Appropriate biological tests" means only tests designed to measure directly, or through established predictive capability, biologically significant adverse effects to the established or potential benthic or aquatic resources at a given location, as determined by rule by the department.

(4) "Beneficial uses" means uses of waters of the state which include but are not limited to use for domestic, stock watering, industrial, commercial, agricultural, irrigation, mining, fish and wildlife maintenance and enhancement, recreation, generation of electric power, and preservation of environmental and aesthetic values, and all other uses compatible with the enjoyment of the public waters of the state.

(5) "Best management practices" or "BMPs" means schedules of activities, prohibitions of practices, maintenance procedures, and other management practices to prevent or reduce the pollution of surface sediments of the state. BMPs also include treatment requirements, operating procedures and practices to control plant site runoff, spillage or leaks, sludge or water disposal, or drainage from raw material storage.

(6) "Bioassay" means a test procedure that measures the response of living plants, animals, or tissues to a sediment sample.

(7) "Chronic" means measurements of biological effects using sediment bioassays conducted for, or simulating, prolonged exposure periods of not less than one complete life cycle, evaluations of indigenous field organisms for long-term effects, assessment of biological effects resulting from bioaccumulation and biomagnification, and/or extrapolated values or methods for simulating effects from prolonged exposure periods. Chronic effects may include mortality, reduced growth, impaired reproduction, histopathological abnormalities, adverse effects to birds and mammals, or other endpoints determined appropriate by the department.

(8) "Contaminated sediment" means surface sediments designated under the procedures of WAC 173-204-310 as exceeding the applicable sediment quality standards of WAC 173-204-320 through 173-204-340.

(9) "Control sediment sample" means a surface sediment sample which is relatively free of contamination and is physically and chemically characteristic of the area from which bioassay test animals are collected. Control sediment sample bioassays provide information concerning a test animal's tolerance for stress due to transportation, laboratory handling, and bioassay procedures. Control sediment samples cannot exceed the applicable sediment quality standards of WAC 173-204-320 through 173-204-340.

(10) "Department" means the department of ecology.

(11) "Freshwater sediments" means surface sediments in which the sediment pore water contains less than or equal to 0.5 parts per thousand salinity.

(12) "Low salinity sediments" means surface sediments in which the sediment pore water contains greater than 0.5 parts per thousand salinity and less than 25 parts per thousand salinity.

(13) "Marine finfish rearing facilities" shall mean those private and public facilities located within state waters where finfish are fed, nurtured, held, maintained, or reared to reach the size of release or for market sale.

(14) "Marine sediments" means surface sediments in which the sediment pore water contains 25 parts per thousand salinity or greater.

(15) "Minor adverse effects" means a level of effects that:

(a) Has been determined by rule by the department, except in cases subject to WAC 173-204-110(6); and

(b) Meets the following criteria:

(i) An acute or chronic adverse effect to biological resources as measured by a statistically and biologically significant response relative to reference in no more than one appropriate biological test as defined in WAC 173-204-200(3); or

(ii) A statistically and biologically significant response that is significantly elevated relative to reference in any appropriate biological test as defined in WAC 173-204-200(3); or

(iii) Biological effects per (b)(i) or (ii) of this subsection as predicted by exceedance of an appropriate chemical or other deleterious substance standard, except where the prediction is overridden by direct biological testing evidence pursuant to (b)(i) and (ii) of this subsection; and

(c) Does not result in significant human health risk as predicted by exceedance of an appropriate chemical, biological, or other deleterious substance standard.

(16) "No adverse effects" means a level of effects that:

(a) Has been determined by rule by the department, except in cases subject to WAC 173-204-110(6); and

(b) Meets the following biological criteria:

(i) No acute or chronic adverse effects to biological resources as measured by a statistically and biologically significant response relative to reference in any appropriate biological test as defined in WAC 173-204-200(3); and

(ii) No acute or chronic adverse biological effect per (b)(i) of this subsection as predicted by exceedance of an appropriate chemical or other deleterious substance standard, except where the prediction is overridden by direct biological testing evidence pursuant to (b)(i) of this subsection; and

(iii) Does not result in significant human health risk as predicted by exceedance of an appropriate chemical, biological, or other deleterious substance standard.

(17) "Other toxic, radioactive, biological, or deleterious substances" means contaminants which are not specifically identified in the sediment quality standards chemical criteria of WAC 173-204-320 through 173-204-340 (e.g., organic debris, tributyltin, DDT, etc.).

(18) "Person" means an individual, firm, corporation, association, partnership, consortium, joint venture, commercial entity, industry, private corporation, port district, special purpose district, irrigation district, unit of local government, state government agency, federal government agency, Indian tribe, or any other entity whatsoever.

(19) "Practicable" means able to be completed in consideration of environmental effects, technical feasibility and cost.

(20) "Puget Sound basin" or "Puget Sound" means:

(a) Puget Sound south of Admiralty Inlet, including Hood Canal and Saratoga Passage;

(b) The waters north to the Canadian border, including portions of the Strait of Georgia;

(c) The Strait of Juan de Fuca south of the Canadian border; and

(d) All the lands draining into these waters as mapped in water resources inventory areas numbers 1 through 19, set forth in water resources management program established pursuant to the Water Resources Act of 1971, chapter 173-500 WAC.

(21) "Puget Sound protocols" means *Puget Sound Estuary Program. 1986. As amended. Recommended Protocols for Measuring Selected Environmental Variables in Puget Sound, U.S. Environmental Protection Agency, Region 10, Seattle, WA (looseleaf).*

(22) "Reference sediment sample" means a surface sediment sample which serves as a laboratory indicator of a test animal's tolerance to important natural physical and chemical characteristics of the sediment, e.g., grain size, organic content. Reference sediment samples represent the nonanthropogenically affected background surface sediment quality of the sediment sample. Reference sediment samples cannot exceed the applicable sediment quality standards of WAC 173-204-320 through 173-204-340.

(23) "Sediment impact zone" means an area where the applicable sediment quality standards of WAC 173-204-320 through 173-204-340 are exceeded due to ongoing permitted or otherwise authorized wastewater, storm water, or nonpoint source discharges and authorized by the department within a federal or state wastewater or storm water discharge permit, or other formal department authorization.

(24) "Sediment recovery zone" means an area where the applicable sediment quality standards of WAC 173-204-320 through 173-204-340 are exceeded as a result of historical discharge activities, and authorized by the department as a result of a cleanup decision made pursuant to WAC 173-204-580, Cleanup action decision.

(25) "Site units" means discrete subdivisions of an individual contaminated sediment site that are being evaluated for the purpose of establishing cleanup standards. Site units are based on consideration of unique locational, environmen-

tal, spatial, or other conditions determined appropriate by the department, e.g., cleanup under piers, cleanup in eelgrass beds, cleanup in navigational lanes.

(26) "Surface sediments" or "sediment(s)" means settled particulate matter located in the predominant biologically active aquatic zone, or exposed to the water column. Sediment(s) also includes settled particulate matter exposed by human activity (e.g., dredging) to the biologically active aquatic zone or to the water column.

(27) "Test sediment" means a sediment sample that is evaluated for compliance with the sediment quality standards of WAC 173-204-320 through 173-204-340 and/or the sediment impact zone maximum criteria of WAC 173-240-420 and/or the cleanup screening levels criteria of WAC 173-204-520.

[Statutory Authority: RCW 90.48.220. 96-02-058, § 173-204-200, filed 12/29/95, effective 1/29/96. Statutory Authority: Chapters 43.21C, 70.105D, 90.48, 90.52, 90.54 and 90.70 RCW. 91-08-019 (Order 90-41), § 173-204-200, filed 3/27/91, effective 4/27/91.]

PART III—SEDIMENT QUALITY STANDARDS

WAC 173-204-300 Purpose. The sediment quality standards of WAC 173-204-320 through 173-204-340 include chemical concentration criteria, biological effects criteria, human health criteria, other toxic, radioactive, biological, or deleterious substances criteria, and nonanthropogenically affected sediment quality criteria which are used to identify sediments that have no adverse effects on biological resources, and correspond to no significant health risk to humans. Designation determinations using the sediment quality standards of WAC 173-204-320 through 173-204-340 shall be conducted as stipulated in WAC 173-204-310, Sediment quality standards designation procedures.

[Statutory Authority: Chapters 43.21C, 70.105D, 90.48, 90.52, 90.54 and 90.70 RCW. 91-08-019 (Order 90-41), § 173-204-300, filed 3/27/91, effective 4/27/91.]

WAC 173-204-310 Sediment quality standards designation procedures. Any person may use these procedures to determine a sediment's designation using the applicable sediment quality standards of WAC 173-204-320 through 173-204-340. Any person who designates test sediments using the procedures of this section shall meet the sampling and testing plan requirements of WAC 173-204-600 and records management requirements of WAC 173-204-610. Test sediments designated using the procedures of this section shall be sampled and analyzed using the Puget Sound protocols or other methods approved by the department, and shall use an appropriate quality assurance/quality control program, as determined by the department. A sediment sample that passes the initial designation procedures is designated as complying with the applicable sediment quality standards of WAC 173-204-320 through 173-204-340, until such time as any person or the department confirms the sediment designation as failing the applicable sediment quality standards of WAC 173-204-320 through 173-204-340. A sediment sample that fails the initial designation procedures is designated as not complying with the applicable sediment quality standards of WAC 173-204-320 through 173-204-340, until such time as any person or the department confirms the sediment designation as passing the applicable sediment quality standards of WAC 173-204-320 through 173-204-340. A sediment sample that passes or fails the confirmatory designation procedures is designated as such under the procedures of WAC 173-204-310. Sediments shall be designated with the applicable sediment quality standards of WAC 173-204-320 through 173-204-340 as follows:

(1) Initial designation. Sediments that have been chemically analyzed for the applicable chemical concentration criteria of WAC 173-204-320 through 173-204-340 shall be designated as follows:

(a) Sediments with chemical concentrations equal to or less than all the applicable chemical and human health criteria are designated as having no adverse effects on biological resources, and not posing a significant health threat to humans, and pass the applicable sediment quality standards of WAC 173-204-320 through 173-204-340.

(b) Sediments with chemical concentrations which exceed any one applicable chemical or human health criterion in WAC 173-204-320 through 173-204-340 are designated as having adverse effects on biological resources or posing significant human health threats, and fail the sediment quality standards of WAC 173-204-320 through 173-204-340, pending confirmatory designation.

(2) Confirmatory designation. Any person or the department may confirm the designation of sediments which have either passed or failed initial designation procedures listed in subsection (1) of this section using the applicable biological testing of WAC 173-204-315, as required below. Sediment samples that pass all the required confirmatory biological tests are designated as passing the applicable sediment quality standards of WAC 173-204-320 through 173-204-340, notwithstanding the sediment's previous initial designation under subsection (1) of this section. Any sediment sample which fails any one of the required confirmatory biological tests shall be designated as failing the applicable sediment quality standards of WAC 173-204-320 through 173-204-340, notwithstanding the sediment's previous initial designation under subsection (1) of this section. The confirmatory biological test standards are described below.

(a) To confirm the designation of a sediment which either passed or failed any applicable chemical concentration criterion established in WAC 173-204-320 through 173-204-340, the sediment shall be tested for:

(i) Two of the acute effects biological tests described in the applicable standards of WAC 173-204-315; and

(ii) One of the chronic effects biological tests described in the applicable standards of WAC 173-204-315.

(b) Sediments with chemical concentrations which either passed or failed any applicable human health criterion of WAC 173-204-320 through 173-204-340 shall be eligible for confirmatory designation as follows: Reserved: The department shall determine on a case-by-case basis the criteria, methods, and procedures necessary to meet the intent of this chapter.

(3) Initial and confirmatory designation of sediments which contain other toxic, radioactive, biological, or deleterious substances. Sediments which contain other toxic, radioactive, biological, or deleterious substances, as defined in

WAC 173-204-200(16), shall be designated by the department using the following procedures.

(a) The department shall:

(i) Identify individual contaminants of concern;

(ii) Identify appropriate and practicable sampling and analysis methodologies;

(iii) Identify test interpretation standards for initial and confirmatory designation; and

(iv) Identify acceptable levels of sediment contamination for sediments which contain other toxic, radioactive, biological, or deleterious substances.

(b) Where sediment containing other toxic, radioactive, biological or deleterious substances may also be contaminated by chemicals identified in WAC 173-204-320 through 173-204-340, the department shall require application of the appropriate tests and standards of WAC 173-204-320 through 173-204-340, as determined by the department, in addition to any requirements developed pursuant to (a) of this subsection.

(c) The department may use all or some of the sediment biological tests of WAC 173-204-320 through 173-204-340 to designate sediments with other toxic, radioactive, biological or deleterious substances in cases where those tests are technically appropriate, as determined by the department.

[Statutory Authority: Chapters 43.21C, 70.105D, 90.48, 90.52, 90.54 and 90.70 RCW. 91-08-019 (Order 90-41), § 173-204-310, filed 3/27/91, effective 4/27/91.]

WAC 173-204-315 Confirmatory marine sediment biological tests. (1) The following five acute and chronic effects biological tests shall be used to confirm designation of Puget Sound marine sediments using the procedures described in WAC 173-204-310(2). Use of alternate biological tests shall be subject to the review and approval of the department using the procedures of WAC 173-204-130(4).

(a) Acute effects tests.

(i) Amphipod: Ten-day mortality sediment bioassay for the Amphipod, i.e., Rhepoxynius abronius, Ampelisca abdita, or Eohaustorius estuarius.

(ii) Larval: Any one of the following mortality/abnormality sediment bioassays:

(A) Crassostrea gigas, i.e., Pacific oyster;

(B) Mytilus (edulis) galloprovincialis, i.e., Blue mussel;

(C) Strongylocentrotus purpuratus, i.e., Purple sea urchin;

(D) Strongylocentrotus droebachiensis, i.e., Green sea urchin; or

(E) Dendraster excentricus, i.e., Sand dollar.

(b) Chronic effects tests.

(i) Benthic infaunal abundance: Abundance of the following major taxa: Class Crustacea, Class Polychaeta, and Phylum Mollusca.

(ii) Juvenile polychaete: Twenty-day growth rate of the juvenile polychaete Neanthes arenaceodentata; or

(iii) Microtox saline extract: Decreased luminescence from the bacteria Vibrio fisheri after a fifteen minute exposure.

(2) Performance standards for control and reference sediment biological test results. The biological tests of this section shall not be considered valid unless test results for the appropriate control and reference sediments meet the performance standards of (a) through (e) of this subsection. The department may reject the results of a reference sediment biological test based on unacceptably high variability.

(a) Amphipod: The control sediment shall have less than ten percent mortality over the test period. The reference sediment shall have less than twenty-five percent mortality.

(b) Larval: The seawater control sample shall have less than thirty percent combined abnormality and mortality (i.e., a seventy percent normal survivorship at time-final).

(c) Benthic abundance: The reference benthic macroinvertebrate assemblage shall be representative of areas of Puget Sound removed from significant sources of contaminants, and to the extent possible shall have the following characteristics:

(i) The taxonomic richness of benthic macroinvertebrates and the abundances of higher taxonomic groups shall reflect seasonality and natural physical-chemical conditions (e.g., grain size composition and salinity of sediments, water depth) in a reference area, and not be obviously depressed as a result of chemical toxicity;

(ii) Normally abundant species that are known to be sensitive to chemical contaminants shall be present;

(iii) Normally rare species that are known to become abundant only under chemically disturbed conditions shall be rare or absent; and

(iv) The abundances of normally rare species that control community structure through physical modification of the sediment shall be similar to those observed at the test sediment site.

(d) Juvenile polychaete: The control sediment shall have less than ten percent mortality and mean individual growth of $\geq$ 0.72 mg/ind/day per dry weight basis. The reference sediment shall have a mean individual growth rate which is at least eighty percent of the mean individual growth rate found in the control sediment. Control sediments exhibiting growth below 0.72 mg/ind/day may be approved by the department on a case-by-case basis.

(e) Microtox: Reserved: The department shall determine performance standards on a case-by-case basis as necessary to meet the intent of this chapter.

[Statutory Authority: RCW 90.48.220. 96-02-058, § 173-204-315, filed 12/29/95, effective 1/29/96. Statutory Authority: Chapters 43.21C, 70.105D, 90.48, 90.52, 90.54 and 90.70 RCW. 91-08-019 (Order 90-41), § 173-204-315, filed 3/27/91, effective 4/27/91.]

WAC 173-204-320 Marine sediment quality standards. (1) Goal and applicability.

(a) The sediment quality standards of this section shall correspond to a sediment quality that will result in no adverse effects, including no acute or chronic adverse effects on biological resources and no significant health risk to humans.

(b) The marine sediment quality standards of this section shall apply to marine sediments located within Puget Sound as defined in WAC 173-204-200(19).

(c) Non-Puget Sound marine sediment quality standards. Reserved: The department shall determine on a case-by-case basis the criteria, methods, and procedures necessary to meet the intent of this chapter.

(2) Chemical concentration criteria. The chemical concentrations in Table I establish the marine sediment quality standards chemical criteria for designation of sediments.

(a) Where laboratory analysis indicates a chemical is not detected in a sediment sample, the detection limit shall be reported and shall be at or below the Marine Sediment Quality Standards chemical criteria value set in this table.

(b) Where chemical criteria in this table represent the sum of individual compounds or isomers, the following methods shall be applied:

(i) Where chemical analyses identify an undetected value for every individual compound/isomer then the single highest detection limit shall represent the sum of the respective compounds/isomers; and

(ii) Where chemical analyses detect one or more individual compound/isomers, only the detected concentrations will be added to represent the group sum.

(c) The listed chemical parameter criteria represent concentrations in parts per million, "normalized," or expressed, on a total organic carbon basis. To normalize to total organic carbon, the dry weight concentration for each parameter is divided by the decimal fraction representing the percent total organic carbon content of the sediment.

(d) The LPAH criterion represents the sum of the following "low molecular weight polynuclear aromatic hydrocarbon" compounds: Naphthalene, Acenaphthylene, Acenaphthene, Fluorene, Phenanthrene, and Anthracene. The LPAH criterion is not the sum of the criteria values for the individual LPAH compounds as listed.

(e) The HPAH criterion represents the sum of the following "high molecular weight polynuclear aromatic hydrocarbon" compounds: Fluoranthene, Pyrene, Benz(a)anthracene, Chrysene, Total Benzofluoranthenes, Benzo(a)pyrene, Indeno(1,2,3,-c,d)pyrene, Dibenzo(a,h)anthracene, and Benzo(g,h,i)perylene. The HPAH criterion is not the sum of the criteria values for the individual HPAH compounds as listed.

(f) The TOTAL BENZOFLUORANTHENES criterion represents the sum of the concentrations of the "B," "J," and "K" isomers.

Table I
Marine Sediment Quality Standards
—Chemical Criteria

CHEMICAL PARAMETER	MG/KG DRY WEIGHT (PARTS PER MILLION (PPM) DRY)
ARSENIC	57
CADMIUM	5.1
CHROMIUM	260
COPPER	390
LEAD	450
MERCURY	0.41
SILVER	6.1
ZINC	410

CHEMICAL PARAMETER	MG/KG ORGANIC CARBON (PPM CARBON)
LPAH	370
NAPHTHALENE	99
ACENAPHTHYLENE	66
ACENAPHTHENE	16
FLUORENE	23
PHENANTHRENE	100
ANTHRACENE	220
2-METHYLNAPHTHALENE	38
HPAH	960
FLUORANTHENE	160
PYRENE	1000
BENZ(A)ANTHRACENE	110
CHRYSENE	110
TOTAL BENZOFLUORANTHENES	230
BENZO(A)PYRENE	99
INDENO (1,2,3,-C,D) PYRENE	34
DIBENZO (A,H) ANTHRACENE	12
BENZO(G,H,I)PERYLENE	31
1,2-DICHLOROBENZENE	2.3
1,4-DICHLOROBENZENE	3.1
1,2,4-TRICHLOROBENZENE	0.81
HEXACHLOROBENZENE	0.38
DIMETHYL PHTHALATE	53
DIETHYL PHTHALATE	61
DI-N-BUTYL PHTHALATE	220
BUTYL BENZYL PHTHALATE	4.9
BIS (2-ETHYLHEXYL) PHTHALATE	47
DI-N-OCTYL PHTHALATE	58
DIBENZOFURAN	15
HEXACHLOROBUTADIENE	3.9
N-NITROSODIPHENYLAMINE	11
TOTAL PCB'S	12

CHEMICAL PARAMETER	UG/KG DRY WEIGHT (PARTS PER BILLION (PPB) DRY)
PHENOL	420
2-METHYLPHENOL	63
4-METHYLPHENOL	670
2,4-DIMETHYL PHENOL	29
PENTACHLOROPHENOL	360
BENZYL ALCOHOL	57
BENZOIC ACID	650

(3) Biological effects criteria. For designation of sediments pursuant to WAC 173-204-310(2), sediments are determined to have adverse effects on biological resources when any one of the confirmatory marine sediment biological tests of WAC 173-204-315(1) demonstrate the following results:

(a) Amphipod: The test sediment has a higher (statistically significant, t test, $p \leq 0.05$) mean mortality than the reference sediment and the test sediment mean mortality exceeds twenty-five percent, on an absolute basis.

(b) Larval: The test sediment has a mean survivorship of normal larvae that is less (statistically significant, t test, $p \leq 0.05$) than the mean normal survivorship in the reference sediment and the test sediment mean normal survivorship is less than eighty-five percent of the mean normal survivorship in the reference sediment (i.e., the test sediment has a mean combined abnormality and mortality that is greater than fifteen percent relative to time-final in the reference sediment).

(c) Benthic abundance: The test sediment has less than fifty percent of the reference sediment mean abundance of any one of the following major taxa: Class Crustacea, Phylum Mollusca or Class Polychaeta, and the test sediment abundance is statistically different (t test, $p \leq 0.05$) from the reference sediment abundance.

(d) Juvenile polychaete: The test sediment has a mean individual growth rate of less than seventy percent of the ref-

erence sediment mean individual growth rate and the test sediment mean individual growth rate is statistically different (t test, $p \leq 0.05$) from the reference sediment mean individual growth rate.

(e) Microtox: The mean light output of the highest concentration of the test sediment is less than eighty percent of the mean light output of the reference sediment, and the two means are statistically different from each other (t test, $p \leq 0.05$).

(4) Marine sediment human health criteria. Reserved: The department may determine on a case-by-case basis the criteria, methods, and procedures necessary to meet the intent of this chapter.

(5) Marine sediment other toxic, radioactive, biological, or deleterious substances criteria. Other toxic, radioactive, biological or deleterious substances in, or on, sediments shall be at or below levels which cause no adverse effects in marine biological resources, and below levels which correspond to a significant health risk to humans, as determined by the department. The department shall determine on a case-by-case basis the criteria, methods, and procedures necessary to meet the intent of this chapter pursuant to WAC 173-204-310(3).

(6) Nonanthropogenically affected sediment quality criteria. Whenever the nonanthropogenically affected sediment quality is of a lower quality (i.e., higher chemical concentrations, higher levels of adverse biological response, or posing a greater health threat to humans) than the applicable sediment quality standards assigned for said sediments by this chapter, the existing sediment chemical and biological quality shall be identified on an area-wide basis as determined by the department, and used in place of the sediment quality standards of WAC 173-204-320.

[Statutory Authority: RCW 90.48.220. 96-02-058, § 173-204-320, filed 12/29/95, effective 1/29/96. Statutory Authority: Chapters 43.21C, 70.105D, 90.48, 90.52, 90.54 and 90.70 RCW. 91-08-019 (Order 90-41), § 173-204-320, filed 3/27/91, effective 4/27/91.]

WAC 173-204-330 Low salinity sediment quality standards. Reserved: The department shall determine on a case-by-case basis the criteria, methods, and procedures necessary to meet the intent of this chapter.

[Statutory Authority: Chapters 43.21C, 70.105D, 90.48, 90.52, 90.54 and 90.70 RCW. 91-08-019 (Order 90-41), § 173-204-330, filed 3/27/91, effective 4/27/91.]

WAC 173-204-340 Freshwater sediment quality standards. Reserved: The department shall determine on a case-by-case basis the criteria, methods, and procedures necessary to meet the intent of this chapter.

[Statutory Authority: Chapters 43.21C, 70.105D, 90.48, 90.52, 90.54 and 90.70 RCW. 91-08-019 (Order 90-41), § 173-204-340, filed 3/27/91, effective 4/27/91.]

WAC 173-204-350 Sediment quality standards inventory. (1) The department shall gather available data on sediments and produce an inventory of sediment sampling stations which pass or fail the applicable sediment quality standards of WAC 173-204-320 through 173-204-340. Sediment sampling stations which are evaluated for compliance with the sediment quality standards of WAC 173-204-320 through 173-204-340 and placed on the inventory shall be sampled and analyzed using the Puget Sound Protocols or other methods approved by the department, and shall use an appropriate quality assurance/quality control program, as determined by the department. The sediment quality standards inventory produced per this section shall be used by the department, and made available upon request to the public and other federal, state, and local agencies for the following uses:

(a) To identify and target necessary source control activities, such as discharger monitoring, to eliminate adverse effects on biological resources and significant health threats to humans from sediment contamination;

(b) To identify contaminated sediment cleanup sites per the procedures in WAC 173-204-500 through 173-204-590;

(c) To establish sediment quality ambient monitoring program status and trends analyses and reports;

(d) To identify the sediment quality of areas proposed for dredging, in-water construction, and other actions requiring federal, state, and/or local permits; and

(e) To complete other uses consistent with the intent of this chapter, as determined by the department.

(2) Sources of data. Sediment biological and chemical data shall be gathered by the department for review to produce and update the sediment quality inventory on a biennial basis. Data sources include, but are not limited to:

(a) Sediment data collected by the department for the Puget Sound ambient monitoring program, compliance monitoring of permitted discharges, and special environmental investigations.

(b) Sediment data submitted to the U.S. Army Corps of Engineers in support of dredging permit applications.

(c) Sediment data collected to identify problem areas and needed source controls in Puget Sound as defined in WAC 173-204-200(19), other marine waters, and all low salinity and freshwater areas in Washington state.

(d) Sediment data used or collected in compliance with chapter 70.105D RCW, and the Model Toxics Control Act cleanup regulation, chapter 173-340 WAC.

(e) Sediment data used or collected in compliance with the federal Comprehensive Environmental Response, Compensation and Liability Act.

(f) Sediment data collected as a requirement of a National Pollutant Discharge Elimination System or state discharge permit.

(g) Sediment data derived from other studies including:

(i) Federally sponsored monitoring studies.

(ii) Special monitoring studies conducted by local and municipal governments, or private industry.

(iii) Data derived through Washington state department of natural resources administration of use authorizations.

(3) The inventory shall be updated and made available to the public on a biennial basis.

[Statutory Authority: Chapters 43.21C, 70.105D, 90.48, 90.52, 90.54 and 90.70 RCW. 91-08-019 (Order 90-41), § 173-204-350, filed 3/27/91, effective 4/27/91.]

PART IV—SEDIMENT SOURCE CONTROL

WAC 173-204-400 General considerations. (1) The standards of WAC 173-204-400 through 173-204-420 specify a process for managing sources of sediment contamination. These procedures include:

(a) Evaluating the potential for a waste discharge to create a sediment impact;

(b) Requiring application for a sediment impact zone authorization;

(c) Verifying whether a discharge has received all known, available and reasonable methods of prevention, control, and treatment prior to discharge, and/or application of best management practices;

(d) Analysis and verification of the potential sediment impact;

(e) Determining whether the sediment impact zone would meet maximum allowable contamination requirements;

(f) Evaluating the proposed sediment impact zone in consideration of locational criteria;

(g) Design and/or constrain the sediment impact zone to be as small, and with the least contamination, as practicable;

(h) Public review of the proposed sediment impact zone authorization;

(i) Issuance of the sediment impact zone authorization with provisions for maintenance and closure; and

(j) Reducing and eventually eliminating the sediment impact zone via renewals and modifications of a sediment impact zone authorization.

(2) Permits and other authorizations of wastewater, storm water, and nonpoint source discharges to surface waters of the state of Washington under authority of chapter 90.48 RCW shall be conditioned so that the discharge receives all known, available and reasonable methods of prevention, control, and treatment, and best management practices prior to discharge, as required by chapters 90.48, 90.52, and 90.54 RCW. The department shall provide consistent guidance on the collection, analysis and evaluation of wastewater, receiving-water, and sediment samples to meet the intent of this section using consideration of pertinent sections of the *Department of Ecology Permit Writers' Manual,* as amended, and other guidance approved by the department.

(3) As determined necessary, the department shall require any person who proposes a new discharge to evaluate the potential for the proposed discharge to cause a violation of the applicable sediment quality standards of WAC 173-204-320 through 173-204-340.

(4) As determined necessary, the department shall require existing permitted discharges to evaluate the potential for the permitted discharge to cause a violation of the applicable sediment quality standards of WAC 173-204-320 through 173-204-340.

(5) Within permits authorizing existing discharges to surface waters of the state of Washington, the department may specify appropriate locations and methodologies for the collection and analysis of representative samples of wastewater, receiving-water, and sediments to evaluate the potential for the discharge to cause a violation of the applicable sediment quality standards of WAC 173-204-320 through 173-204-340.

(6) In establishing the need for, and the appropriate, individual permit monitoring conditions, the department shall consider multiple factors relating to the potential for a discharge to cause a violation of the applicable sediment quality standards of WAC 173-204-320 through 173-204-340 including but not limited to:

(a) Discharge particulate characteristics;

(b) Discharge contaminant concentrations, flow, and loading rate;

(c) Sediment chemical concentration and biological effects levels;

(d) Receiving water characteristics;

(e) The geomorphology of sediments;

(f) Cost mitigating factors such as the available resources of the discharger; and

(g) Other factors determined necessary by the department.

(7) As determined necessary to ensure the wastewater discharge does not cause a violation of the applicable standards of WAC 173-204-320 through 173-204-340, except as authorized by the department under WAC 173-204-415, Sediment impact zones, the department shall stipulate permit terms and conditions which include wastewater discharge average and maximum mass loading per unit time, and wastewater discharge average and maximum chemical concentrations within new and existing facility permits authorizing wastewater discharges to surface waters of the state of Washington.

(8) As determined necessary, the department shall modify wastewater discharge permits whenever it appears the discharge causes a violation, or creates a substantial potential to cause a violation of the applicable sediment quality standards of WAC 173-204-320 through 173-204-340, as authorized by RCW 90.48.520.

(9) To meet the intent of this section, the sediment quality standards of WAC 173-204-320 through 173-204-340 and the sediment impact zone standards of WAC 173-204-415 through 173-204-420 are not considered to be federal discharge permit effluent limits subject to antibacksliding requirements of the federal Clean Water Act. Discharge permit sediment monitoring and sediment impact zone compliance requirements may be used to establish effluent limits sufficient to meet the standards of this chapter.

(10) As determined necessary, the department shall use issuance of administrative actions under authority of chapters 90.48 or 70.105D RCW to implement this chapter.

(11) Wastewater dilution zones. Water quality mixing zones authorized by the department pursuant to chapter 173-201A WAC, Water quality standards for surface waters of the state of Washington, do not satisfy the standards of WAC 173-204-415, Sediment impact zones.

(12) For the sediment source control standards of WAC 173-204-400 through 173-204-420, any and all references to violation of, potential to violate, exceedance of, or potential to exceed the applicable standards of WAC 173-204-320 through 173-204-340 shall also apply to the antidegradation and designated use policies of WAC 173-204-120. Any exceedances or potential exceedances of the antidegradation

or designated use policies of WAC 173-204-120 shall meet the applicable requirements of WAC 173-204-400 through 173-204-420.

(13) Under no circumstances shall the provisions of sediment source control standards WAC 173-204-400 through 173-204-420 be construed as providing for the relaxation of discharge permit requirements under other authorities including, but not limited to, chapter 90.48 RCW, the Water Pollution Control Act, chapter 90.54 RCW, the Water Resources Act of 1971, and the Federal Water Pollution Control Act of 1972 and amendments.

[Statutory Authority: RCW 90.48.220. 96-02-058, § 173-204-400, filed 12/29/95, effective 1/29/96. Statutory Authority: Chapters 43.21C, 70.105D, 90.48, 90.52, 90.54 and 90.70 RCW. 91-08-019 (Order 90-41), § 173-204-400, filed 3/27/91, effective 4/27/91.]

WAC 173-204-410 Sediment quality goal and sediment impact zone applicability. (1) Goal and policies.

(a) It is the established goal of the department to manage source control activities to reduce and ultimately eliminate adverse effects on biological resources and significant health threats to humans from sediment contamination.

(b) The stated policy of the department shall be to only authorize sediment impact zones so as to minimize the number, size, and adverse effects of all zones, with the intent to eliminate the existence of all such zones whenever practicable. The department shall consider the relationship between environmental effects, technical feasibility and cost in determining whether it is practicable to minimize and/or eliminate sediment impact zones.

(c) The department shall implement the standards of WAC 173-204-400 through 173-204-420 so as to prevent the creation of new contaminated sediment cleanup sites identified under WAC 173-204-530(4).

(2) A sediment impact zone authorization issued by the department under the authority of chapter 90.48 RCW does not constitute authorization to trespass on lands not owned by the applicant. These standards do not address and in no way alter the legal rights, responsibilities, or liabilities of the permittee or landowner of the sediment impact zone for any applicable requirements of proprietary, real estate, tort, and/or other laws not directly expressed as a requirement of this chapter.

(3) Except as identified in subsection (6)(d) of this section, any person may apply for a sediment impact zone under the following conditions:

(a) The person's discharge is provided with all known, available and reasonable methods of prevention, control, and treatment, and meets best management practices as stipulated by the department; and

(b) The person's discharge activity exposes or resuspends sediments which exceed, or otherwise cause or potentially cause sediments to exceed the applicable sediment quality standards of WAC 173-204-320 through 173-204-340, or the antidegradation policy standards of WAC 173-204-120 (1)(a) and (c) within a period of ten years from the later date of either the department's formal approval of the application for a sediment impact zone authorization or the starting date of the discharge.

(4) The department shall only authorize sediment impact zones for permitted wastewater and storm water discharges, and other discharges authorized by the department. The department shall authorize all sediment impact zones via discharge permits or other formal administrative actions.

(5) The department shall not limit the application, establishment, maintenance, or closure of an authorized sediment impact zone via consideration of sediment contamination determined by the department to be the result of unknown, unpermitted or historic discharge sources.

(6) As determined necessary by the department, any person with a permitted discharge shall be required to meet the standards of WAC 173-204-400 through 173-204-420, as follows:

(a) Any person with a new or existing permitted wastewater discharge shall be required to meet the standards of WAC 173-204-400 through 173-204-420;

(b) Any person with a new or existing permitted industrial storm water discharge, regulated as process wastewater in National Pollutant Discharge Elimination System or state discharge permits, shall be required to meet the standards of WAC 173-204-400 through 173-204-420;

(c) Any person with a new or existing permitted storm water or nonpoint source discharge, which fully uses all known, available and reasonable methods of prevention, control, and treatment, and best management practices as stipulated by the department at the time of the person's application for a sediment impact zone, shall be required to meet the standards of WAC 173-204-400 through 173-204-420;

(d) Any person with a storm water discharge, existing prior to the adoption of this chapter, and determined by the department to not be fully using best management practices stipulated by the department at the time of the person's application for a permit from the department, shall be eligible for a sediment impact zone as follows:

(i) The department shall issue sediment impact zone authorizations with requirements for application of best management practices stipulated by the department on an approved time schedule.

(ii) Sediment impact zones authorized by the department for permitted storm water discharges under the applicability provisions of subsection (6)(d) of this section shall be subject to cleanup action determinations made by the department pursuant to WAC 173-204-500 through 173-204-590 when the sediment impact zone maximum criteria of WAC 173-204-420 are exceeded within the authorized sediment impact zone.

(iii) The department shall identify and include best management practices required to meet the sediment impact zone design standards of WAC 173-204-415(4) as soon as practicable within sediment impact zone authorizations established for storm water discharges per WAC 173-204-410 (6)(d).

(7) Dredged material and fill discharge activities subject to authorization under Section 401 of the federal Clean Water Act via chapter 90.48 RCW and chapter 173-225 WAC, establishment of implementation procedures of application for certification, are not subject to the standards of WAC 173-204-415 but are subject to the standards of WAC 173-204-400 through 173-204-410 and 173-204-420 as follows:

(a) Requirements for dredging activities and disposal sites shall be established by the department using best available dredged material management guidelines and applicable federal and state rules. These guidelines shall include the Puget Sound dredged disposal analysis (PSDDA) dredged material testing and disposal requirements cited in:

(i) *Management Plan Report - Unconfined Open-Water Disposal Of Dredged Material, Phase I, (Central Puget Sound), June 1988, or as amended;*

(ii) *Management Plan Report - Unconfined Open-Water Disposal Of Dredged Material, Phase II, (North And South Puget Sound), September 1989, or as amended;* and

(iii) *Users Manual For Dredged Material Management In Puget Sound, November 1990, or as amended.*

(b) In coordination with other applicable federal and state and local dredged material management programs, the department may issue administrative orders to establish approved disposal sites, to specify disposal site use conditions, and to specify disposal site monitoring requirements.

(c) The department may authorize sediment impact zones for dredged material disposal via federal Clean Water Act Section 401 certification actions.

(d) As determined necessary by the department, the department may authorize sediment impact zones for dredged material disposal via administrative orders issued under authority of chapter 90.48 RCW. The department shall authorize sediment impact zones for all Puget Sound dredged disposal analysis disposal sites via administrative orders issued under authority of chapter 90.48 RCW.

(e) Administrative orders and certifications establishing sediment impact zones for dredged material disposal sites shall describe establishment, maintenance, and closure requirements for the authorized site, consistent with the requirements described in (a) of this subsection.

(8) The source control standards of WAC 173-204-400 through 173-204-420 are applicable in cases where the sediment quality standards of WAC 173-204-320 through 173-204-340 are reserved.

[Statutory Authority: RCW 90.48.220. 96-02-058, § 173-204-410, filed 12/29/95, effective 1/29/96. Statutory Authority: Chapters 43.21C, 70.105D, 90.48, 90.52, 90.54 and 90.70 RCW. 91-08-019 (Order 90-41), § 173-204-410, filed 3/27/91, effective 4/27/91.]

WAC 173-204-412 Marine finfish rearing facilities. (1) Purpose. This section sets forth the applicability of this chapter to marine finfish rearing facilities only. This section also identifies marine finfish rearing facility siting, operation, closure and monitoring requirements to meet the intent of this chapter, as applicable.

(2) Applicability. Marine finfish rearing facilities and their associated discharges are not subject to the authority and purpose standards of WAC 173-204-100 (3) and (7), and the marine sediment quality standards of WAC 173-204-320 and the sediment impact zone maximum criteria of WAC 173-204-420, within and including the distance of one hundred feet from the outer edge of the marine finfish rearing facility structure. Marine finfish rearing facilities are not subject to the sediment impact zone standards of WAC 173-204-415.

(3) Sediment monitoring. Sediment quality compliance and monitoring requirements for marine finfish rearing facilities shall be addressed through National Pollutant Discharge Elimination System or other permits issued by the department for facility operation. Marine finfish rearing facilities shall meet the following sediment quality monitoring requirements:

(a) Any person with a new facility shall identify a baseline sediment quality prior to facility operation for benthic infaunal abundance, total organic carbon and grain size in the location of the proposed operation and downcurrent areas that may be potentially impacted by the facility discharge;

(b) Any person with an existing operating facility shall monitor sediment quality for total organic carbon levels and identify the location of any sediments in the area of the facility statistically different (t test, $p \leq 0.05$) from the total organic carbon levels identified as facility baseline levels or statistically different from the applicable total organic carbon levels as identified in Table 1:

TABLE 1 - Puget Sound Reference Total Organic Carbon Values

Silt-Clay Particles (percent Dry Weight)	Total Organic Carbon (percent Dry Weight)
0-20	0.5
20-50	1.7
50-80	3.2
80-100	2.6

(c) The locations and frequency of monitoring for total organic carbon, benthic infaunal abundance and other parameters shall be determined by the department and identified in the applicable National Pollutant Discharge Elimination System permit;

(d) Antibacterials. Reserved: The department shall determine on a case-by-case basis the methods, procedure, locations, and frequency for monitoring antibacterials associated with the discharge from a marine finfish rearing facility;

(e) Closure. All permitted marine finfish rearing facilities shall monitor sediments impacted during facility operation to document recovery of sediment quality to background levels. The department shall determine on a case-by-case basis the methods, procedure, locations, and frequency for monitoring sediments after facility closure.

(4) Sediment impact zones. Marine finfish rearing facilities and their associated discharges that are permitted under a National Pollutant Discharge Elimination System permit are hereby provided a sediment impact zone by rule for any sediment quality impacts and biological effects within and including the distance of one hundred feet from the outer edge of the marine finfish rearing facility structure.

(a) The department may authorize an individual marine finfish rearing facility sediment impact zone for any sediments beyond a distance of one hundred feet from the facility perimeter via National Pollutant Discharge Elimination System permits or administrative actions. The authorized sediment impact zone shall meet the benthic infaunal abundance requirements of the sediment impact zone maximum criteria, WAC 173-204-420 (3)(c)(iii). Marine finfish rearing facilities that exceed the sediment quality conditions of subsection

(3)(b) of this section beyond a distance of one hundred feet from the facility perimeter shall:

(i) Begin an enhanced sediment quality monitoring program to include benthic infaunal abundance consistent with the requirements of the National Pollutant Discharge Elimination System permit. The sediment quality monitoring program shall include a benthic infaunal abundance reference sediment sample as required in subsection (3)(a) of this section or a benthic infaunal abundance reference sediment sample in compliance with WAC 173-204-200(21); and

(ii) Be consistent with the sediment source control general considerations of WAC 173-204-400 and the sediment quality goal and sediment impact zone applicability requirements of WAC 173-204-410, apply for a sediment impact zone as determined necessary by the department.

(b) Administrative orders or permits establishing sediment impact zones for marine finfish rearing facilities shall describe establishment, maintenance, and closure requirements as determined necessary by the department.

[Statutory Authority: RCW 90.48.220. 96-02-058, § 173-204-412, filed 12/29/95, effective 1/29/96.]

WAC 173-204-415 Sediment impact zones. The purpose of this section is to set forth the standards for establishment, maintenance, and closure of sediment impact zones to meet the intent of sediment quality dilution zones authorized pursuant to RCW 90.48.520, except for sediment impact zones authorized under WAC 173-204-410(7). The department shall authorize all sediment impact zones via discharge permits or other formal administrative actions.

(1) General requirements. Authorization, modification and renewal of a sediment impact zone by the department shall require compliance with the following general requirements:

(a) Permits authorizing wastewater discharges to surface waters of the state of Washington under authority of chapter 90.48 RCW shall be conditioned so that the discharge receives:

(i) All known, available and reasonable methods of prevention, control, and treatment prior to discharge, as required by chapters 90.48, 90.52, and 90.54 RCW; and

(ii) Best management practices as stipulated by the department.

(b) The maximum area, and maximum chemical contaminant concentration and/or allowable maximum biological effect level within sediments assigned to a sediment impact zone shall be as authorized by the department, in accordance with the standards of this section.

(c) The department shall determine that the person's activity generating effluent discharges which require authorization of a sediment impact zone is in the public interest.

(d) The department shall determine that any person's activity generating effluent discharges which require authorization of a sediment impact zone has adequately addressed alternative waste reduction, recycling, and disposal options through application of all known, available and reasonable methods of prevention, control, and treatment to minimize as best practicable the volume and concentration of waste contaminants in the discharge.

(e) The area boundaries of the sediment impact zone established by the department shall include the minimum practicable surface area, not to exceed the surface area allowed under subsection (4) of this section.

(f) Adverse effects to biological resources within an authorized sediment impact zone shall be maintained at the minimum chemical contamination and biological effects levels practicable at all times. The department shall consider the relationship between environmental effects, technical feasibility and cost in determining the minimum practicable chemical contamination and biological effects levels. Adverse effects to biological resources within an authorized sediment impact zone shall not exceed a minor adverse effects level as a result of the discharge, as determined by the procedures of subsection (4) of this section.

(g) The operational terms and conditions for the sediment impact zone shall be maintained at all times.

(h) Final closure of the sediment impact zone shall be conducted in strict accordance with the department's sediment impact zone authorization.

(i) Documents authorizing a sediment impact zone shall require that the permitted discharge not result in a violation of the applicable sediment quality standards of WAC 173-204-320 through 173-204-340, outside the area limits of the established zone.

(j) All applications to the department for sediment impact zone authorizations shall be subject to public notice, comment and hearing procedures defined but not limited to the applicable discharge permit or other formal administrative action requirements of chapter 43.21C RCW, the State Environmental Policy Act, chapter 197-11 WAC, SEPA rules, chapter 90.48 RCW, chapter 163-216 WAC, the State waste discharge permit program, and chapter 173-220 WAC, National Pollutant Discharge Elimination System Permit Program prior to issuance of the authorization. In determining the need for, location, and/or design of any sediment impact zone authorization, the department shall give consideration to all comments received during public review of the proposed sediment impact zone application.

(2) Application requirements.

(a) Whenever, in the opinion of the department, as a result of an ongoing or proposed effluent discharge, a person violates, shall violate, or creates a substantial potential to violate the sediment quality standards of WAC 173-204-320 through 173-204-340 as applicable within a period of ten years from the later date of either the department's evaluation of the ongoing discharge or the starting date of the proposed discharge, the department may require application for a sediment impact zone authorization under authority of chapter 90.48 RCW.

(b) Any person with a proposed or permitted effluent discharge shall apply to the department for authorization of a sediment impact zone when:

(i) The department requires the sediment impact zone application by written notification; or

(ii) The person independently identifies that the ongoing or proposed effluent discharge violates, shall violate, or creates a substantial potential to violate the applicable sediment quality standards of WAC 173-204-320 through 173-204-340 within a period of ten years from the later date of the per-

son's evaluation of the ongoing discharge or the starting date of the proposed discharge, using the procedures of this section.

(c) As necessary, the department may require any person to submit a sediment impact zone application in multiple steps concurrent with its ongoing review and determination concerning the adequacy of the application. The application shall provide the sediment impact zone design information required in subsection (4) of this section and other such information the department determines necessary. The application shall also provide the legal location and landowner(s) of property proposed for use as, or potentially affected by, a sediment impact zone, and shall be accompanied by such other relevant information as the department may require. The department shall issue a written approval of the complete sediment impact zone application prior to or concurrent with authorizing a sediment impact zone.

(d) Submittal of an application to the department for authorization of a sediment impact zone under the terms and conditions of this section shall establish the applicant's interim compliance with requirements of chapter 90.48 RCW and this chapter, as determined by the department. The department may authorize an interim compliance period within a valid discharge permit or administrative order to ensure ultimate compliance with chapter 90.48 RCW and this chapter. The interim compliance period shall not continue beyond the date of issuance of a sediment impact zone authorization within a valid discharge permit issued by the department.

(e) Prior to authorization, the department shall make a reasonable effort to identify and notify all landowners, adjacent landowners, and lessees affected by the proposed sediment impact zone. The department shall issue a sediment impact zone notification letter to any person it believes to be a potentially affected landowner and other parties determined appropriate by the department. The notification letter shall be sent by certified mail, return receipt requested, or by personal service. The notification letter shall provide:

(i) The name of the person the department believes to be the affected landowner;

(ii) The names and addresses of other affected landowners to whom the department has sent a proposed sediment impact zone notification letter;

(iii) The name and address of the sediment impact zone applicant;

(iv) A general description of the location, size, and contamination level proposed for the sediment impact zone;

(v) The intention of the department to release all specific sediment impact zone application information to the public upon written request to the department;

(vi) The determination of the department concerning whether the proposed sediment impact zone application meets the standards of this section;

(vii) The intention of the department whether to authorize the proposed sediment impact zone; and

(viii) Notification that the affected landowners, adjacent landowners, and lessees may comment on the proposed sediment impact zone. Any comments on the proposed sediment impact zone authorization shall be submitted in writing to the department within thirty days from the date of receipt of the notification letter, unless the department provides an extension.

(f) Prior to authorization, the department shall issue a sediment impact zone notification letter to affected port districts, the Washington state department of natural resources marine lands division, the U.S. Army Corps of Engineers, and other parties determined appropriate by the department. The notification letter shall be sent by certified mail, return receipt requested, or by personal service. The notification letter shall provide the information required under (e) of this subsection.

(3) Locational considerations. The department shall require any person applying for a sediment impact zone to submit information concerning potential location considerations of the zone. The location of an authorized sediment impact zone shall avoid whenever possible and minimize adverse impacts to areas of special importance. Prior to authorization of a sediment impact zone, the department shall consider all pertinent information from the applicant, all affected parties, local, state and federal agencies, federally recognized Indian tribes, and the public concerning locational considerations, including but not limited to:

(a) Spawning areas;

(b) Nursery areas;

(c) Waterfowl feeding areas;

(d) Shellfish harvest areas;

(e) Areas used by species of economic importance;

(f) Tribal areas of significance;

(g) Areas determined to be ecologically unique;

(h) Water supply intake areas;

(i) Areas used for primary contact public recreation;

(j) High quality waters that constitute an outstanding national resource; and

(k) Areas where sediment quality is substantially better than levels necessary for protection of biological resources and human health.

(4) Design requirements. The location, areal limitations, and degree of effects allowed within an authorized sediment impact zone shall be determined by application of the department's sediment impact zone computer models "CORMIX," "PLUMES," and/or "WASP," or an alternate sediment impact zone model(s) approved by the department under WAC 173-204-130(4), as limited by the standards of this section and the department's best professional judgment. The models shall be used by the department or by the discharger as required by the department, to estimate the impact of any person's wastewater or storm water discharge on the receiving water and sediment quality for a period of ten years from the later date of either the department's formal approval of the application for a sediment impact zone authorization or the starting date of the discharge.

(a) Data requirements. The discharger shall submit the following information to determine requirements for establishment and authorization of a sediment impact zone, as required by the department:

(i) Data reports and analyses results for all samples of wastewater or storm water, receiving water, and sediments collected by the discharger or other parties relating to evaluation of the potential effects of the permitted discharge, as required by WAC 173-204-400.

(ii) Data reports and analyses results determined necessary to:

(A) Apply discharge modeling to the permitted discharge; and

(B) To identify and evaluate potential alternative chemical and biological effects of the discharge on the receiving water and sediments; and

(C) To identify and evaluate potential alternatives to define the areal size and location of a sediment impact zone needed by the discharge.

(iii) Data reports and analyses results from the discharger's application of the "CORMIX," "PLUMES," and/or "WASP" or an alternate sediment impact zone model(s) approved by the department under WAC 173-204-130(4), to the permitted discharge to identify and evaluate:

(A) Potential alternative chemical and biological effects of the discharge on the receiving water and sediments; and

(B) Potential alternatives for the areal distribution and location of a potential sediment impact zone required by the discharge.

(iv) Preferred alternative for closure of the potential sediment impact zone by active removal and/or natural recovery, and identified costs of the preferred closure method.

(b) Overlapping sediment impact zones. Overlapping sediment impact zones, as predicted by the "CORMIX," "PLUMES," and/or "WASP" models or an alternate sediment impact zone model(s) approved by the department under WAC 173-204-130(4), and the department's best professional judgment, shall be authorized only as follows:

(i) The applicable sediment impact zone maximum criteria of WAC 173-204-420 shall not be exceeded as a result of the multiple discharge sediment impact zones overlap; and

(ii) If the department determines that the applicable chemical contaminant concentration and biological effects restrictions of WAC 173-204-420 would be exceeded as a result of the overlap of multiple discharge sediment impact zones, the department may authorize the sediment impact zones after:

(A) Application of a waste load allocation process to the individual permitted discharges to identify individual permit effluent limitations necessary to meet:

(I) The applicable chemical contaminant concentration and biological effects restrictions for sediment impact zones required by this section; and/or

(II) Storm water best management practices required by the department; and

(B) Establishment of individual permit compliance schedules for the multiple permitted discharges to ensure compliance with:

(I) The permit effluent limitations established by the department using the waste load allocation process and best professional judgment; and

(II) The standards of WAC 173-204-400 through 173-204-420.

(5) Maintenance requirements.

(a) The department shall review sediment impact zone monitoring conducted by the discharger to evaluate compliance with the department's sediment impact zone authorization and the standards of WAC 173-204-400 through 173-204-420. The department may require additional sediment impact zone monitoring when the department determines that any sediment sampling station within an authorized sediment impact zone exceeds the sediment impact zone maximum criteria of WAC 173-204-420 or violates the sediment impact zone authorization as a result of the discharge.

(b) Whenever the department can clearly demonstrate that, as a result of an effluent discharge, a discharger violates, shall violate, or creates a substantial potential to violate the department's sediment impact zone authorization, or the sediment impact zone maximum criteria of WAC 173-204-420, the department shall:

(i) Provide written notification and supporting documentation of the department's clear demonstration determination to the affected discharger;

(ii) Establish a reasonable time frame for the affected discharger to either submit a written statement and supporting documentation rebutting the department's clear demonstration determination, or accept the department's determination. The discharger may use the clear demonstration methods identified in (c) of this subsection for rebuttal of the department's clear demonstration; and

(iii) Provide written notification of the department's determination concerning approval or denial of the submitted clear demonstration rebuttal to the discharger.

(c) For the purpose of this section, a clear demonstration shall consist of:

(i) Use of the sediment impact zone model(s) "CORMIX," "PLUMES," and/or "WASP" or other model(s) to demonstrate a discharge(s) is the source of the violation or potential violation; and

(ii) Use of one or more of the following methods to demonstrate a violation of the sediment impact zone authorization or the sediment impact zone maximum criteria of WAC 173-204-420:

(A) Direct sediment sampling. A violation of the sediment impact zone authorization and/or the sediment impact zone maximum criteria of WAC 173-204-420 is demonstrated when:

(I) The average chemical concentration for three stations within the sediment impact zone exceeds the sediment impact zone maximum criteria of WAC 173-204-420 due to the discharge source. This concentration average shall not include stations for which complete biological testing information shows that the biological effects requirements of WAC 173-204-420, or the authorized sediment impact zone if applicable, are met; or

(II) The biological effects at each of any three stations within the sediment impact zone exceed the sediment impact zone maximum biological effects criteria of WAC 173-204-420 or the authorized sediment impact zone as applicable, due to the discharge source; or

(B) Monitoring data which demonstrates a chemical contaminant concentration gradient toward the discharge source exists in sediments which violates the sediment impact zone authorization or the standards of WAC 173-204-420; or

(C) A trend analysis of the effluent chemical discharge quality and inplace sediment monitoring data which statistically demonstrates an ongoing violation or substantial potential to violate the sediment impact zone authorization or the standards of WAC 173-204-420; or

(D) Field depositional (e.g., sediment traps) and/or effluent particulate (e.g., centrifuge analysis) data which demonstrate an ongoing violation or substantial potential to violate the sediment impact zone authorization or the standards of WAC 173-204-420; or

(E) Mathematical or computer modeling which demonstrates an ongoing violation or substantial potential to violate the sediment impact zone authorization or the standards of WAC 173-204-420.

(d) The department's response to a clear demonstration of a violation or potential violation shall be to require maintenance activities in the following order:

(i) Require reanalysis of whether the discharger's effluent treatment complies with all known, available and reasonable methods of prevention, control, and treatment and best management practices based on the data used to establish the clear demonstration;

(ii) Alter the authorized sediment impact zone size and/or degree of effects consistent with the standards of this section and the results of direct sediment sampling;

(iii) Reduce impacts of the existing or potential violation by requiring additional discharge controls or additional sediment impact zone maintenance activities which can include, but are not limited to:

(A) Dredging and removal of sediments, solely for sediment impact zone maintenance needs or coordinated with maintenance dredging of commercially important areas, e.g., navigational lanes or ship berthing areas;

(B) Dredging, treatment, and replacement of sediments within the sediment impact zone; and/or

(C) Capping of sediments within the sediment impact zone;

(iv) Limit the quantity and/or quality of the existing permitted discharge; and/or

(v) Withdraw the department's sediment impact zone authorization and require final closure of the zone.

(e) All sediment impact zone maintenance actions conducted under this chapter shall provide for landowner review of the maintenance action plans prior to implementation of the action. In cases where the discharger is not able to secure access to lands subject to the sediment impact zone maintenance actions of this subsection, the department may facilitate negotiations or other proceedings to secure access to the lands. Requests for department facilitation of land access shall be submitted to the department in writing by the responsible discharger.

(6) Closure planning and requirements.

(a) The discharger shall select and identify a preferred method for closure of a sediment impact zone in the application required by WAC 173-204-415(2). Closure methods can include either active cleanup and/or natural recovery and monitoring. The department shall incorporate the discharger's identified closure method in the sediment impact zone authorization.

(b) The department may require closure of authorized sediment impact zones when the department determines that:

(i) The discharger has violated the sediment impact zone maintenance standards of subsection (5) of this section; or

(ii) The department determines that:

(A) The wastewater or storm water discharge quality will not violate the applicable sediment quality standards of WAC 173-204-320 through 173-204-340; or

(B) A sediment impact zone is no longer needed or eligible under the standards of WAC 173-204-410 through 173-204-415.

(7) Modification of sediment impact zones. The department may modify sediment impact zone authorization requirements where the nature of a person's activity which generates, transports, disposes, prevents, controls, or treats effluent discharges has substantially changed and been demonstrated to the department's satisfaction. The modification may occur after consideration of the following:

(a) Reduction of effects. Assessment of the discharge activities and treatment methods shall be conducted by the discharger to demonstrate to the satisfaction of the department that:

(i) Elimination of the sediment impact zone is not practicable; and

(ii) Further reduction in any existing or proposed sediment impact zone area size and/or level of contamination or effects is not practicable in consideration of discharge requirements for all known, available and reasonable methods of prevention, control, and treatment, best management practices, and applicable waste reduction and recycling provisions.

(b) Alterations. There are substantial alterations or additions to the person's activity generating effluent discharges which require authorization of a sediment impact zone which occur after permit issuance and justify application of permit conditions different from, or absent in, the existing permit.

(c) New information. Sediment impact zones may be modified when new information is received by the department that was not available at the time of permit issuance that would have justified the application of different sediment impact zone authorization conditions.

(d) New regulations. The standards or regulations on which the permit was based have changed by amended standards, criteria, or by judicial decision after the permit was issued.

(e) Changes in technology. Advances in waste control technology that qualify as "all known, available and reasonable methods of prevention, control, and treatment" and "best management practices" shall be adopted as permit requirements, as appropriate, in all permits reissued by the department.

(8) Renewal of previously authorized sediment impact zones. Renewal of sediment impact zones previously authorized under the standards of WAC 173-204-410 and this section shall be allowed under the following conditions:

(a) The department determines the discharge activities and treatment methods meet all known, available and reasonable methods of prevention, control, and treatment and best management practices as stipulated by the department; and

(b) The discharger demonstrates to the department's satisfaction that the discharge activities comply with the standards of WAC 173-204-400 through 173-204-420 and with the existing sediment impact zone authorization; and

(c) Reduction of effects. The discharger conducts an assessment of the permitted discharge activities and treat-

ment methods and demonstrates to the department's satisfaction that:

(i) Elimination of the sediment impact zone is not practicable; and

(ii) A further reduction in any existing or proposed sediment impact zone area size and/or level of contamination is not practicable in consideration of discharge requirements for all known, available and reasonable methods of prevention, control, and treatment, best management practices, and applicable waste reduction and recycling provisions.

[Statutory Authority: RCW 90.48.220. 96-02-058, § 173-204-415, filed 12/29/95, effective 1/29/96. Statutory Authority: Chapters 43.21C, 70.105D, 90.48, 90.52, 90.54 and 90.70 RCW. 91-08-019 (Order 90-41), § 173-204-415, filed 3/27/91, effective 4/27/91.]

WAC 173-204-420 Sediment impact zone maximum criteria. This section establishes minor adverse effects as the maximum chemical contaminant concentration, maximum health risk to humans, maximum biological effects level, maximum other toxic, radioactive, biological, or deleterious substance level, and maximum nonanthropogenically affected sediment quality level allowed within authorized sediment impact zones due to an existing or proposed discharge. If the department determines that the standards of this section are or will be exceeded as a result of an existing or proposed discharge(s), the department shall authorize a sediment impact zone or modify a sediment impact zone authorization consistent with the standards of WAC 173-204-400 through 173-204-420 such that individual permit effluent limitations, requirements, and compliance time periods are sufficient to meet the standards of this section as applicable.

(1) Applicability.

(a) The marine sediment impact zone maximum chemical criteria, and the marine sediment biological effects criteria, and the marine sediment human health criteria, and the marine sediment other toxic, radioactive, biological or deleterious substance criteria and the marine sediment nonanthropogenically affected sediment criteria of this section shall apply to marine sediments within Puget Sound.

(b) Non-Puget Sound marine sediment impact zone maximum criteria. Reserved: The department shall determine on a case-by-case basis the criteria, methods, and procedures necessary to meet the intent of this chapter.

(c) Low salinity sediment impact zone maximum criteria. Reserved: The department shall determine on a case-by-case basis the criteria, methods, and procedures necessary to meet the intent of this chapter.

(d) Freshwater sediment impact zone maximum criteria. Reserved: The department shall determine on a case-by-case basis the criteria, methods, and procedures necessary to meet the intent of this chapter.

(2) Puget Sound marine sediment impact zone maximum chemical criteria. The maximum chemical concentration levels that may be allowed within an authorized sediment impact zone due to a permitted or otherwise authorized discharge shall be at or below the chemical levels stipulated in Table II, Sediment Impact Zone Maximum Chemical Criteria, except as provided for by the marine sediment biological effects restrictions of subsection (3) of this section, and any compliance time periods established under WAC 173-204-410 (6)(d) and 173-204-415.

(a) Where laboratory analysis indicates a chemical is not detected in a sediment sample, the detection limit shall be reported and shall be at or below the Marine Sediment Quality Standards chemical criteria value set in WAC 173-204-320(2).

(b) Where chemical criteria in this table represent the sum of individual compounds or isomers, the following methods shall be applied:

(i) Where chemical analyses identify an undetected value for every individual compound/isomer then the single highest detection limit shall represent the sum of the respective compounds/isomers; and

(ii) Where chemical analyses detect one or more individual compound/isomers, only the detected concentrations will be added to represent the group sum.

(c) The listed chemical parameter criteria represent concentrations in parts per million, "normalized," or expressed, on a total organic carbon basis. To normalize to total organic carbon, the dry weight concentration for each parameter is divided by the decimal fraction representing the percent total organic carbon content of the sediment.

(d) The LPAH criterion represents the sum of the following "low molecular weight polynuclear aromatic hydrocarbon" compounds: Naphthalene, Acenaphthylene, Acenaphthene, Fluorene, Phenanthrene, and Anthracene. The LPAH criterion is not the sum of the criteria values for the individual LPAH compounds as listed.

(e) The HPAH criterion represents the sum of the following "high molecular weight polynuclear aromatic hydrocarbon" compounds: Fluoranthene, Pyrene, Benz(a)anthracene, Chrysene, Total Benzofluoranthenes, Benzo(a)pyrene, Indeno(1,2,3,-c,d)pyrene, Dibenzo(a,h)anthracene, and Benzo(g,h,i)perylene. The HPAH criterion is not the sum of the criteria values for the individual HPAH compounds as listed.

(f) The TOTAL BENZOFLUORANTHENES criterion represents the sum of the concentrations of the "B," "J," and "K" isomers.

Table II
Puget Sound Marine Sediment Impact Zones
Maximum Chemical Criteria

CHEMICAL PARAMETER	MG/KG DRY WEIGHT (PARTS PER MILLION (PPM) DRY)
ARSENIC	93
CADMIUM	6.7
CHROMIUM	270
COPPER	390
LEAD	530
MERCURY	0.59
SILVER	6.1
ZINC	960
CHEMICAL PARAMETER	**MG/KG ORGANIC CARBON (PPM CARBON)**
LPAH	780
NAPHTHALENE	170
ACENAPHTHYLENE	66
ACENAPHTHENE	57
FLUORENE	79

CHEMICAL PARAMETER	MG/KG ORGANIC CARBON (PPM CARBON)
PHENANTHRENE	480
ANTHRACENE	1200
2-METHYLNAPHTHALENE	64
HPAH	5300
FLUORANTHENE	1200
PYRENE	1400
BENZ(A)ANTHRACENE	270
CHRYSENE	460
TOTAL BENZOFLUORANTHENES	450
BENZO(A)PYRENE	210
INDENO (1,2,3,-C,D) PYRENE	88
DIBENZO (A,H) ANTHRACENE	33
BENZO(G,H,I)PERYLENE	78
1,2-DICHLOROBENZENE	2.3
1,4-DICHLOROBENZENE	9
1,2,4-TRICHLOROBENZENE	1.8
HEXACHLOROBENZENE	2.3
DIMETHYL PHTHALATE	53
DIETHYL PHTHALATE	110
DI-N-BUTYL PHTHALATE	1700
BUTYL BENZYL PHTHALATE	64
BIS (2-ETHYLHEXYL) PHTHALATE	78
DI-N-OCTYL PHTHALATE	4500
DIBENZOFURAN	58
HEXACHLOROBUTADIENE	6.2
N-NITROSODIPHENYLAMINE	11
TOTAL PCB'S	65

CHEMICAL PARAMETER	UG/KG DRY WEIGHT (PARTS PER BILLION (PPB) DRY)
PHENOL	1200
2-METHYLPHENOL	63
4-METHYLPHENOL	670
2,4-DIMETHYL PHENOL	29
PENTACHLOROPHENOL	690
BENZYL ALCOHOL	73
BENZOIC ACID	650

(3) Puget Sound marine sediment impact zone maximum biological effects criteria. The maximum biological effects level that may be allowed within an authorized sediment impact zone shall be at or below a minor adverse biological effects level. The acute and chronic effects biological tests of WAC 173-204-315(1) may be used to determine compliance with the minor adverse biological effects restriction within an authorized sediment impact zone as follows:

(a) When using biological testing to determine compliance with the maximum biological effects criteria within a sediment impact zone, a person shall select and conduct any two acute effects tests and any one chronic effects test.

(b) The biological tests shall not be considered valid unless test results for the appropriate control and reference sediment samples meet the performance standards described in WAC 173-204-315(2).

(c) The sediment impact zone maximum biological effects level is established as that level below which any two of the biological tests in any combination exceed the criteria of WAC 173-204-320(3), or one of the following biological test determinations is made:

(i) Amphipod: The test sediment has a higher (statistically significant, t test, $p \leq 0.05$) mean mortality than the reference sediment and the test sediment mean mortality is greater than a value represented by the reference sediment mean mortality plus thirty percent; or

(ii) Larval: The test sediment has a mean survivorship of normal larvae that is less (statistically significant, t test, $p \leq 0.05$) than the mean normal survivorship in the reference sediment sample and the test sediment mean normal survivorship is less than seventy percent of the mean normal survivorship in the reference sediment (i.e., the test sediment has a mean combined abnormality and mortality that is greater than thirty percent relative to time-final in the reference sediment); or

(iii) Benthic abundance: The test sediment has less than fifty percent of the reference sediment mean abundance of any two of the following major taxa: Class Crustacea, Phylum Mollusca or Class Polychaeta and the test sediment abundances are statistically different (t test, $p \leq 0.05$) from the reference sediment abundances; or

(iv) Juvenile polychaete: The test sediment has a mean individual growth rate of less than fifty percent of the reference sediment mean individual growth rate and the test sediment mean individual growth rate is statistically different (t test, $p \leq 0.05$) from the reference sediment mean individual growth rate.

(4) Puget Sound marine sediment impact zone maximum human health criteria. Reserved: The department may determine on a case-by-case basis the criteria, methods, and procedures necessary to meet the intent of this chapter.

(5) Puget Sound marine sediment impact zone maximum other toxic, radioactive, biological, or deleterious substances criteria. Other toxic, radioactive, biological or deleterious substances in, or on, sediments shall be below levels which cause minor adverse effects in marine biological resources, or which correspond to a significant health risk to humans, as determined by the department. The department shall determine on a case-by-case basis the criteria, methods, and procedures necessary to meet the intent of this chapter.

(6) Puget Sound marine sediment impact zone maximum nonanthropogenically affected sediment criteria. Whenever the nonanthropogenically affected sediment quality is of a lower quality (i.e., higher chemical concentrations, higher levels of adverse biological response, or posing a higher threat to human health) than the applicable sediment impact zone maximum criteria established under this section, the existing sediment chemical and biological quality shall be identified on an area-wide basis as determined by the department, and used in place of the standards of WAC 173-204-420.

[Statutory Authority: RCW 90.48.220. 96-02-058, § 173-204-420, filed 12/29/95, effective 1/29/96. Statutory Authority: Chapters 43.21C, 70.105D, 90.48, 90.52, 90.54 and 90.70 RCW. 91-08-019 (Order 90-41), § 173-204-420, filed 3/27/91, effective 4/27/91.]

PART V—SEDIMENT CLEANUP STANDARDS

WAC 173-204-500 Sediment cleanup decision process and policies. (1) The standards of WAC 173-204-500 through 173-204-590 are procedures which specify a cleanup decision process for managing contaminated sediments. These procedures include:

(a) Screening sediment station clusters of potential concern;

(b) Conducting hazard assessments to identify cleanup sites;

(c) Ranking sites identified in (b) of this subsection;

(d) Determining the appropriate site cleanup authority;

(e) Conducting a site cleanup study;

(f) Determining the site-specific cleanup standard;

(g) Selecting a site cleanup action; and

(h) Where necessary, authorizing a cleanup site sediment recovery zone.

(2) Under this chapter, the department may require or take those actions necessary to implement the standards of WAC 173-204-500 through 173-204-580 for all contaminated sediment stations on the inventory identified in WAC 173-204-350.

(3) The cleanup process and procedures under this chapter and under other laws may be combined. The department may initiate a cleanup action under this chapter and may upon further analysis determine that another law is more appropriate, or vice versa.

(4) It is the policy of the department to manage sediment cleanup actions towards the goal of reducing and ultimately eliminating adverse effects on biological resources and significant health threats to humans from sediment contamination. To achieve this goal, the department will pursue sediment cleanup decisions and cleanup standards that are as close as practicable to the sediment quality standards of WAC 173-204-320 through 173-204-340, including the consideration of net environmental effects, cost and technical feasibility. The department shall only authorize sediment recovery zones so as to minimize the number, size and adverse effects of all zones, with the intent to eliminate the existence of all such zones whenever practicable.

(5) The department shall endeavor to make sediment cleanup decisions in an expeditious manner, as soon as all needed information is available, consistent with the availability of department resources and the priority of the cleanup site.

[Statutory Authority: Chapters 43.21C, 70.105D, 90.48, 90.52, 90.54 and 90.70 RCW. 91-08-019 (Order 90-41), § 173-204-500, filed 3/27/91, effective 4/27/91.]

WAC 173-204-510 Screening sediment station clusters of potential concern. (1) Using the sediment quality standards inventory of WAC 173-204-350, the department shall analyze the sediment sampling data to identify station clusters of potential concern and station clusters of low concern per the standards of this section. Station clusters of potential concern shall be further evaluated using the hazard assessment standards of WAC 173-204-530. Station clusters of low concern shall remain on the inventory and no further cleanup action determinations shall be taken by the department until the stations are reexamined per subsection (5) of this section.

(2) A station cluster is defined as any number of stations from the inventory of WAC 173-204-350 that are determined to be spatially and chemically similar. For the purpose of identifying a station cluster of potential concern per the procedures of this subsection, three stations with the highest contaminant concentration for any particular contaminant or the highest degree of biological effects as identified in WAC 173-204-520 are selected from a station cluster. This procedure may be repeated for multiple chemicals identified in WAC 173-204-520, recognizing that the three stations with the highest concentration for each particular contaminant may be different and the respective areas for all chemicals may overlap. The department shall review the inventory of WAC 173-204-350 to identify station clusters of potential concern via the following process:

(a) Identify if available, the three stations within a station cluster with the highest concentration of each chemical contaminant identified in WAC 173-204-520, Cleanup screening levels criteria; and

(b) For each contaminant identified in (a) of this subsection, determine the average concentration for the contaminant at the three stations identified in (a) of this subsection; and

(c) Identify if available, three stations within the station cluster with the highest level of biological effects for the biological tests identified in WAC 173-204-315(1); and

(d) If the average contaminant concentration for any three stations identified in (a) of this subsection, exceeds the applicable cleanup screening level in WAC 173-204-520, then the station cluster is defined as a station cluster of potential concern; and

(e) If the biological effects at each of the three stations from (c) of this subsection exceeds the cleanup screening level in WAC 173-204-520, then the station cluster is defined as a station cluster of potential concern; and

(f) If neither of the conditions of (d) or (e) of this subsection apply, then the station cluster is defined as a station cluster of low concern; and

(g) If the department determines that any three stations within a station cluster exceed the sediment cleanup screening levels human health criteria or the other toxic, radioactive, biological, or deleterious substances criteria or the nonanthropogenically affected criteria of WAC 173-204-520, then the station cluster is defined as a station cluster of potential concern.

(3) Notification. When a station cluster of potential concern has been identified, the department shall issue notification to the landowners, lessees, onsite dischargers, adjacent dischargers, and other persons determined appropriate by the department prior to the department's conducting a hazard assessment as defined in WAC 173-204-530.

(4) No further cleanup action determinations shall be taken with station clusters of low concern until the inventory of WAC 173-204-350 is updated and the stations reexamined per subsection (5) of this section. Station clusters of low concern shall receive no further consideration for active cleanup, unless new information indicates an increase of chemical contamination at the stations in question. Station clusters of low concern shall be evaluated by the department for improved source control and/or monitoring requirements of this chapter.

(5) The department may at any time reexamine a station or group of stations to reevaluate and identify station clusters of potential concern following the procedures of subsection (2) of this section when new information demonstrates to the department's satisfaction that reexamination actions are necessary to fulfill the purposes of WAC 173-204-500 through 173-204-590.

[Statutory Authority: RCW 90.48.220. 96-02-058, § 173-204-510, filed 12/29/95, effective 1/29/96. Statutory Authority: Chapters 43.21C, 70.105D, 90.48, 90.52, 90.54 and 90.70 RCW. 91-08-019 (Order 90-41), § 173-204-510, filed 3/27/91, effective 4/27/91.]

WAC 173-204-520 Cleanup screening levels criteria. (1) Applicability.

(a) The marine sediment cleanup screening levels chemical criteria, and the marine sediment biological effects criteria, and the marine sediment other toxic, radioactive, biological, or deleterious substance criteria, and the marine sediment nonanthropogenically affected criteria of this section shall apply to marine sediments within Puget Sound. The cleanup screening levels establish minor adverse effects as the level above which station clusters of potential concern are defined, and at or below which station clusters of low concern are defined, per the procedures identified in WAC 173-204-510(2). The cleanup screening levels also establish the levels above which station clusters of potential concern are defined as cleanup sites, per the procedures identified in WAC 173-204-530, Hazard assessment. The criteria in Table III and this section also establish minor adverse effects as the Puget Sound marine sediment minimum cleanup level to be used in evaluation of cleanup alternatives per the procedures of WAC 173-204-560, and selection of a site cleanup standard(s) per the procedures of WAC 173-204-570.

(b) Non-Puget Sound marine sediment cleanup screening levels and minimum cleanup levels criteria. Reserved: The department shall determine on a case-by-case basis the criteria, methods, and procedures necessary to meet the intent of this chapter.

(c) Low salinity sediment cleanup screening levels and minimum cleanup levels criteria. Reserved: The department shall determine on a case-by-case basis the criteria, methods, and procedures necessary to meet the intent of this chapter.

(d) Freshwater sediment cleanup screening levels and minimum cleanup levels criteria. Reserved: The department shall determine on a case-by-case basis the criteria, methods, and procedures necessary to meet the intent of this chapter.

(2) Puget Sound marine sediment cleanup screening levels and minimum cleanup levels chemical criteria. The chemical concentration criteria in Table III establish the Puget Sound marine sediment cleanup screening levels and minimum cleanup levels chemical criteria.

(a) Where laboratory analysis indicates a chemical is not detected in a sediment sample, the detection limit shall be reported and shall be at or below the Marine Sediment Quality Standards chemical criteria value set in WAC 173-204-320(2).

(b) Where chemical criteria in this table represent the sum of individual compounds or isomers, the following methods shall be applied:

(i) Where chemical analyses identify an undetected value for every individual compound/isomer then the single highest detection limit shall represent the sum of the respective compounds/isomers; and

(ii) Where chemical analyses detect one or more individual compound/isomers, only the detected concentrations will be added to represent the group sum.

(c) The listed chemical parameter criteria represent concentrations in parts per million, "normalized," or expressed, on a total organic carbon basis. To normalize to total organic carbon, the dry weight concentration for each parameter is divided by the decimal fraction representing the percent total organic carbon content of the sediment.

(d) The LPAH criterion represents the sum of the following "low molecular weight polynuclear aromatic hydrocarbon" compounds: Naphthalene, Acenaphthylene, Acenaphthene, Fluorene, Phenanthrene, and Anthracene. The LPAH criterion is not the sum of the criteria values for the individual LPAH compounds as listed.

(e) The HPAH criterion represents the sum of the following "high molecular weight polynuclear aromatic hydrocarbon" compounds: Fluoranthene, Pyrene, Benz(a)anthracene, Chrysene, Total Benzofluoranthenes, Benzo(a)pyrene, Indeno(1,2,3,-c,d)pyrene, Dibenzo(a,h)anthracene, and Benzo(g,h,i)perylene. The HPAH criterion is not the sum of the criteria values for the individual HPAH compounds as listed.

(f) The TOTAL BENZOFLUORANTHENES criterion represents the sum of the concentrations of the "B," "J," and "K" isomers.

Table III
Puget Sound Marine Sediment
Cleanup Screening Levels
and
Minimum Cleanup Levels —
Chemical Criteria

CHEMICAL PARAMETER	MG/KG DRY WEIGHT (PARTS PER MILLION (PPM) DRY)
ARSENIC	93
CADMIUM	6.7
CHROMIUM	270
COPPER	390
LEAD	530
MERCURY	0.59
SILVER	6.1
ZINC	960

CHEMICAL PARAMETER	MG/KG ORGANIC CARBON (PPM CARBON)
LPAH	780
NAPHTHALENE	170
ACENAPHTHYLENE	66
ACENAPHTHENE	57
FLUORENE	79
PHENANTHRENE	480
ANTHRACENE	1200
2-METHYLNAPHTHALENE	64
HPAH	5300
FLUORANTHENE	1200
PYRENE	1400
BENZ(A)ANTHRACENE	270
CHRYSENE	460
TOTAL BENZOFLUORANTHENES	450
BENZO(A)PYRENE	210
INDENO (1,2,3,-C,D) PYRENE	88
DIBENZO (A,H) ANTHRACENE	33
BENZO(G,H,I)PERYLENE	78
1,2-DICHLOROBENZENE	2.3
1,4-DICHLOROBENZENE	9
1,2,4-TRICHLOROBENZENE	1.8
HEXACHLOROBENZENE	2.3
DIMETHYL PHTHALATE	53
DIETHYL PHTHALATE	110
DI-N-BUTYL PHTHALATE	1700
BUTYL BENZYL PHTHALATE	64
BIS (2-ETHYLHEXYL) PHTHALATE	78

CHEMICAL PARAMETER	MG/KG ORGANIC CARBON (PPM CARBON)
DI-N-OCTYL PHTHALATE	4500
DIBENZOFURAN	58
HEXACHLOROBUTADIENE	6.2
N-NITROSODIPHENYLAMINE	11
TOTAL PCB'S	65

CHEMICAL PARAMETER	UG/KG DRY WEIGHT (PARTS PER BILLION (PPB) DRY)
PHENOL	1200
2-METHYLPHENOL	63
4-METHYLPHENOL	670
2,4-DIMETHYL PHENOL	29
PENTACHLOROPHENOL	690
BENZYL ALCOHOL	73
BENZOIC ACID	650

(3) Puget Sound marine sediment cleanup screening levels and minimum cleanup level biological criteria. The biological effects criteria of this subsection establish the Puget Sound marine sediment cleanup screening level, and the Puget Sound marine sediment minimum cleanup level criteria.

(a) The acute and chronic effects biological tests of WAC 173-204-315(1) shall be used to:

(i) Identify the Puget Sound marine sediment cleanup screening level for the purpose of screening sediment station clusters of potential concern using the procedures of WAC 173-204-510(2); and

(ii) Identify the Puget Sound marine sediment cleanup screening level for the purpose of identifying station clusters of low concern and/or cleanup sites using the hazard assessment procedures of WAC 173-204-530(4); and/or

(iii) Identify the Puget Sound marine sediment minimum cleanup level to confirm minimum cleanup level determinations using the procedures of WAC 173-204-570(3).

(b) When using biological testing to determine if station clusters exceed the cleanup screening level or to identify the minimum cleanup level for a contaminated site, test results from at least two acute effects tests and one chronic effects test shall be evaluated.

(c) The biological tests shall not be considered valid unless test results for the appropriate control and reference sediment samples meet the performance standards described in WAC 173-204-315(2).

(d) The cleanup screening level and minimum cleanup level is exceeded when any two of the biological tests exceed the criteria of WAC 173-204-320(3); or one of the following test determinations is made:

(i) Amphipod: The test sediment has a higher (statistically significant, t test, $p \leq 0.05$) mean mortality than the reference sediment and the test sediment mean mortality is greater than a value represented by the reference sediment mean mortality plus thirty percent.

(ii) Larval: The test sediment has a mean survivorship of normal larvae that is less (statistically significant, t test, $p \leq 0.05$) than the mean normal survivorship in the reference sediment and the test sediment mean normal survivorship is less than seventy percent of the mean normal survivorship in the reference sediment (i.e., the test sediment has a mean combined abnormality and mortality that is greater than thirty percent relative to time-final in the reference sediment).

(iii) Benthic abundance: The test sediment has less than fifty percent of the reference sediment mean abundance of any two of the following major taxa: Class Crustacea, Phylum Mollusca or Class Polychaeta and the test sample abundances are statistically different (t test, $p \leq 0.05$) from the reference abundances.

(iv) Juvenile polychaete: The test sediment has a mean individual growth rate of less than fifty percent of the reference sediment mean individual growth rate and the test sediment mean individual growth rate is statistically different (t test, $p \leq 0.05$) from the reference sediment mean individual growth rate.

(4) Puget Sound marine sediment cleanup screening levels and minimum cleanup levels human health criteria. Reserved: The department may determine on a case-by-case basis the criteria, methods, and procedures necessary to meet the intent of this chapter.

(5) Puget Sound marine sediment cleanup screening levels and minimum cleanup levels other toxic, radioactive, biological, or deleterious substances criteria. Other toxic, radioactive, biological, or deleterious substances in, or on, sediments shall be at or below levels which cause minor adverse effects in marine biological resources, or which correspond to a significant health risk to humans, as determined by the department. The department shall determine on a case-by-case basis the criteria, methods, and procedures necessary to meet the intent of this chapter.

(6) Puget Sound marine sediment cleanup screening levels and minimum cleanup levels nonanthropogenically affected sediment criteria. Whenever the nonanthropogenically affected sediment quality is of a lower quality (i.e., higher chemical concentrations, higher levels of adverse biological response, or posing a higher threat to human health) than the applicable cleanup screening levels or minimum cleanup levels criteria established under this section, the existing sediment chemical and biological quality shall be identified on an area-wide basis as determined by the department, and used in place of the standards of WAC 173-204-520.

[Statutory Authority: RCW 90.48.220. 96-02-058, § 173-204-520, filed 12/29/95, effective 1/29/96. Statutory Authority: Chapters 43.21C, 70.105D, 90.48, 90.52, 90.54 and 90.70 RCW. 91-08-019 (Order 90-41), § 173-204-520, filed 3/27/91, effective 4/27/91.]

WAC 173-204-530 Hazard assessment and site identification. (1) Purpose. A hazard assessment shall be performed to gather existing and available information to further characterize each station cluster of potential concern identified per WAC 173-204-510.

(2) Hazard assessment requirements. Onsite dischargers, lessees, landowners, and adjacent dischargers shall submit, upon the department's request, all existing and available information that would enable the department to:

(a) Determine the concentration and/or areal extent and depth of sediment contamination at the station cluster of potential concern by:

(i) Identifying the contaminants exceeding the applicable sediment quality standards of WAC 173-204-320 through 173-204-340;

(ii) Identifying individual stations within the station cluster of potential concern which exceed the sediment cleanup screening levels criteria of WAC 173-204-520;

(iii) Identifying the level of toxicity to the applicable biological test organisms of WAC 173-204-320 through 173-204-340;

(iv) Determining where the applicable sediment quality standards of WAC 173-204-320 through 173-204-340, for any given contaminant, is met;

(v) Determining if concentrations of chemicals exist that potentially present a significant threat to human health;

(vi) Defining the location where the minimum cleanup level as defined in WAC 173-204-570 is met.

(b) Identify and characterize the present and historic source or sources of the contamination.

(c) Identify the location of sediment impact zones authorized under WAC 173-204-415.

(d) Identify sensitive resources in the vicinity of the station cluster of potential concern.

(e) Provide other information as determined necessary by the department for ranking sites under WAC 173-204-540.

(3) The department shall also compile existing and available information from other federal, state, and local governments that pertain to the topics in subsection (2) of this section.

(4) To identify cleanup sites, the department shall use all available information of acceptable quality gathered from the hazard assessment to evaluate station clusters of potential concern identified pursuant to WAC 173-204-510(2). For the purpose of identifying a cleanup site per the procedures of this subsection, three stations with the highest contaminant concentration for any particular contaminant or the highest degree of biological effects as identified in WAC 173-204-520 are selected from a station cluster of potential concern. This procedure may be repeated for multiple chemicals identified in WAC 173-204-520, recognizing that the three stations with the highest concentration for each particular contaminant may be different and the respective areas for all chemicals may overlap. The department shall review the list of station clusters of potential concern to identify cleanup sites via the following process:

(a) Identify if available, three stations within the station cluster of potential concern with the highest level of biological effects for the biological tests identified in WAC 173-204-315(1).

(b) Station clusters of potential concern where the level of biological effects for any three stations within the station cluster of potential concern exceeds the cleanup screening levels of WAC 173-204-520(3) shall be defined as cleanup sites.

(c) Identify if available, the three stations within a station cluster of potential concern with the highest concentration of each chemical contaminant identified in WAC 173-204-520, Cleanup screening levels criteria. For the purpose of identifying a cleanup site per the procedures of this subsection, stations that meet the biological standards of WAC 173-204-520(3) shall not be included in the evaluation of chemical contaminant concentrations.

(d) For each contaminant identified in (c) of this subsection, determine the average concentration for the contaminant at the three stations identified in (c) of this subsection.

(e) Station clusters of potential concern for which any average chemical concentration identified in (d) of this subsection exceeds the cleanup screening level chemical criteria of Table III shall be defined as cleanup sites.

(f) After completion of the hazard assessment, if neither of the conditions of (b) or (e) of this subsection apply, then the station cluster is defined as a station cluster of low concern.

(g) Station clusters of potential concern where the department determines that any three stations within the station cluster of potential concern exceed the sediment cleanup screening levels human health criteria or the other toxic, radioactive, biological, or deleterious substances criteria or the nonanthropogenically affected criteria of WAC 173-204-520, shall be defined as cleanup sites.

[Statutory Authority: RCW 90.48.220. 96-02-058, § 173-204-530, filed 12/29/95, effective 1/29/96. Statutory Authority: Chapters 43.21C, 70.105D, 90.48, 90.52, 90.54 and 90.70 RCW. 91-08-019 (Order 90-41), § 173-204-530, filed 3/27/91, effective 4/27/91.]

WAC 173-204-540 Ranking and list of sites. (1) Purpose. The department shall prepare and maintain a list of contaminated sediment sites in the order of their relative hazard ranking. From this list, the department shall select sites where action shall be taken.

(2) Site ranking. The department shall evaluate each cleanup site identified by the procedures in WAC 173-204-530 on a consistent basis using the procedure described in *Sediment Ranking System ("SEDRANK"), January 1990,* and all additions and revisions thereto or other procedures approved by the department. The purpose of ranking is to estimate, based on technical information compiled during the hazard assessment procedures in WAC 173-204-530, the relative potential risk posed by the site to human health and the environment. Information obtained during hazard assessment, plus any additional data specified in "SEDRANK," shall be included in the site hazard ranking evaluation.

(3) Considerations in ranking. In conducting sediment site ranking, the department shall assess both human health hazard and ecological hazard, and consider chemical toxicity, affected resources, and site characteristics for both types of hazards. The department shall also use best professional judgment and other information as necessary on a case-by-case basis to conduct site ranking.

(4) Site reranking. The department may, at its discretion, rerank a site. To rerank a site, the department shall use any additional information within the scope of the hazard ranking evaluation criteria and best professional judgment to establish that a significant change in rank should result.

(5) List of ranked sites.

(a) Contaminated sediment sites that are ranked via "SEDRANK" shall be placed on a list in the order of their relative hazard ranking. The list shall describe the current status of cleanup action at each site and be updated on an annual basis. The department may change a site's status to reflect current conditions on a more frequent basis. The status for each site shall be identified as one or more of the following:

(i) Sites awaiting cleanup action;

(ii) Sites where voluntary, incidental, partial or department initiated cleanup actions, as defined in WAC 173-204-550, are in progress;

(iii) Sites where a cleanup action has been completed and confirmational monitoring is underway;

(iv) Sites with sediment recovery zones authorized under WAC 173-204-590; and/or

(v) Other categories established by the department.

(b) The department shall routinely publish and make the list available to be used in conjunction with a review of ongoing and proposed regulatory actions to determine where and when a cleanup action should be taken. The department shall also make the list available to landowners and dischargers at or near listed sites, and to the public.

(6) Site delisting.

(a) The department may remove a site from the list only after it has determined that:

(i) All cleanup actions except confirmational monitoring have been completed and compliance with the site cleanup study and report and cleanup standard(s) has been achieved; or

(ii) The listing of the site was erroneous.

(b) A site owner or operator may request that a site be removed from the list by submitting a petition to the department. The petition shall state the reason for the site delisting request, and as determined appropriate by the department, shall include thorough documentation of all investigations performed, all cleanup actions taken, and all compliance monitoring data and results to demonstrate to the department's satisfaction that the site cleanup standards have been achieved. The department may require payment of costs incurred, including an advance deposit, for review and verification of the work performed. The department shall review such petitions, however the timing of the review shall be at its discretion and as resources may allow.

(c) The department shall maintain a record of sites that have been removed from the list under (a) of this subsection. This record shall be made available to the public on request.

(7) Relisting of sites. The department may relist a site which has previously been removed if it determines that the site requires further cleanup action.

(8) Delisting notice. The department shall provide public notice and an opportunity to comment when the department proposes to remove a site from the list.

(9) Relationship to hazardous sites list. The department may additionally evaluate cleanup sites on the site list developed under subsection (5) of this section for possible inclusion on the hazardous sites list published under WAC 173-340-330.

[Statutory Authority: Chapters 43.21C, 70.105D, 90.48, 90.52, 90.54 and 90.70 RCW. 91-08-019 (Order 90-41), § 173-204-540, filed 3/27/91, effective 4/27/91.]

WAC 173-204-550 Types of cleanup and authority. (1) Purpose. The department acknowledges that cleanups of contaminated sediment sites can occur under the authority of chapter 90.48 or 70.105D RCW. Sediment cleanups may also be initiated by the federal government pursuant to the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA). This section describes the department's role in department initiated and other cleanup actions.

(2) The department shall use best professional judgment and other information as necessary on a case-by-case basis to determine the appropriate administrative authority for conducting, or requiring contaminated sediment cleanup actions based on, but not limited to, the following considerations:

(a) Source of contaminants requiring cleanup including spills, dredging actions, and wastewater and/or storm water discharges;

(b) Significance of contamination threat to human health and the environment including the degree of contamination and types and number of contaminants;

(c) Public perception concerning the contaminant threat to human health and the environment;

(d) Personal or corporate financial status of the landowner(s) and/or discharger(s);

(e) Enforcement compliance history of the landowner(s) and/or discharger(s);

(f) Status of existing or pending federal, state, or local legal orders or administrative actions; and

(g) Size of cleanup action proposed or determined necessary.

(3) The types of cleanup actions below establish scenarios recognized by the department which may occur to effect cleanup of contaminated sediment sites. All of these types of cleanup actions shall be subject to administrative review and approval of the department under chapters 90.48 and/or 70.105D RCW.

(a) Department initiated cleanup. Department initiated cleanup actions occur when the department uses its authority under chapter 90.48 and/or 70.105D RCW to conduct or require and/or otherwise effect cleanup to meet the intent of this chapter.

(b) Voluntary cleanup. Voluntary cleanup actions are initiated by parties other than the department. The department shall encourage voluntary cleanup actions whenever possible, and as early as possible, to meet the intent of this chapter.

(c) Incidental cleanup. Incidental cleanup actions are conducted when other state or federally permitted activities are ongoing in and/or around the contaminated sediment site. Early coordination of incidental cleanup actions with the department is encouraged to meet the intent of this chapter, chapter 70.105D RCW, and chapter 90.48 RCW, as appropriate.

(d) Partial cleanup. Partial cleanup actions may be conducted when completion of cleanup study requirements under WAC 173-204-560 has identified and proposed discrete site units and cleanup standards, the department has approved the selection of the partial cleanup alternative per the standards of WAC 173-204-580, and the department has determined that awaiting action or decision on conducting a complete site cleanup would have a net detrimental effect on the environment or human health.

(e) CERCLA cleanup. Pursuant to the federal Comprehensive Environmental Response, Compensation and Liability Act, the department may identify chapter 173-204 WAC as an applicable state requirement for cleanup actions conducted by the federal government.

[Statutory Authority: Chapters 43.21C, 70.105D, 90.48, 90.52, 90.54 and 90.70 RCW. 91-08-019 (Order 90-41), § 173-204-550, filed 3/27/91, effective 4/27/91.]

WAC 173-204-560 Cleanup study. (1) Purpose. This section describes cleanup study plan and report standards which meet the intent of cleanup actions required under authority of chapter 90.48 and/or 70.105D RCW, and/or this chapter. Cleanup actions required under authority of chapter 70.105D RCW shall also meet all standards of chapter 173-340 WAC, the Model Toxics Control Act cleanup regulation. The cleanup study plan and report standards in this chapter include activities to collect, develop, and evaluate sufficient information to enable consideration of cleanup alternatives and selection of a site-specific sediment cleanup standard prior to making a cleanup decision. Each person performing a cleanup action to meet the intent of this chapter shall submit a cleanup study plan and cleanup study report to the department for review and written approval prior to implementation of the cleanup action. The department may approve the cleanup study plan as submitted, may approve the cleanup study plan with appropriate changes or additions, or may require preparation of a new cleanup study plan.

(2) Scope of cleanup study plan. The scope of a cleanup study plan shall depend on the specific site informational needs, the site hazard, the type of cleanup action proposed, and the authority cited by the department to require cleanup. In establishing the necessary scope of the cleanup study plan, the department may consider cost mitigation factors, such as the financial resources of the person(s) responsible for the cleanup action. In all cases sufficient information must be collected, developed, and evaluated to enable the appropriate selection of a cleanup standard under WAC 173-204-570 and a cleanup action decision under WAC 173-204-580. The sediment cleanup study plan shall address:

(a) Public information/education;

(b) Site investigation and cleanup alternatives evaluation;

(c) Sampling plan and recordkeeping; and

(d) Site safety.

(3) Cleanup study plan public information/education requirements. The cleanup study plan shall encourage coordinated and effective public involvement commensurate with the nature of the proposed cleanup action, the level of public concern, and the existence of, or potential for adverse effects on biological resources and/or a threat to human health. The cleanup study plan shall address proposed activities for the following subjects:

(a) When public notice will occur, the length of the comment periods accompanying each notice, the potentially affected vicinity, and any other areas to be provided notice;

(b) Where public information repositories will be located to provide site information to the public;

(c) Methods for identifying the public's concerns, e.g., interviews, questionnaires, community group meetings, etc.;

(d) Methods for providing information to the public, e.g., press releases, public meetings, fact sheets, etc.;

(e) Coordination of public participation requirements mandated by other federal, state, or local laws;

(f) Amendments to the planned public involvement activities; and

(g) Any other elements that the department determines to be appropriate for inclusion in the cleanup study plan.

(4) Cleanup study plan site investigation and cleanup alternatives evaluation requirements. The content of the cleanup study plan for the site investigation and cleanup alternatives evaluation is determined by the type of cleanup action selected as defined under WAC 173-204-550. As determined by the department, the cleanup study plan shall address the following subjects:

(a) General site information. General information, including: Project title; name, address, and phone number of project coordinator; legal description of the cleanup site; area and volume dimensions of the site; present owners and operators of contaminant source discharges to site; chronological listing of past owners and operators of contaminant source discharges to the site and their respective operational history; and other pertinent information determined by the department.

(b) Site conditions map. An existing site conditions map which illustrates site features as follows:

(i) Property boundaries.

(ii) The site boundary defined by the individual contaminants exceeding the applicable sediment quality standards of WAC 173-204-320 through 173-204-340 at the point where the concentration of the contaminant would meet the:

(A) Cleanup objective; and

(B) Minimum cleanup level; and

(C) Recommended cleanup standards.

(iii) Surface and subsurface topography.

(iv) Surface and subsurface structures.

(v) Utility lines.

(vi) Navigation lanes.

(vii) Current and ongoing sediment sources.

(viii) Other pertinent information determined by the department.

(c) Site investigation. Sufficient investigation to characterize the distribution of sediment contamination present at the site, and the threat or potential threat to human health and the environment. Where applicable to the site, these investigations shall address the following:

(i) Surface water and sediments. Investigations of surface water hydrodynamics and sediment transport mechanisms to characterize significant hydrologic features such as: Site surface water drainage patterns, quantities and flow rates, areas of sediment erosion and deposition including estimates of sedimentation rates, and actual or potential contaminant migration routes to and from the site and within the site. Sufficient surface water and sediment sampling shall be performed to adequately characterize the areal and vertical distribution and concentrations of contaminants. Recontamination potential of sediments which are likely to influence the type and rate of contaminant migration, or are likely to affect the ability to implement alternative cleanup actions shall be characterized;

(ii) Geology and ground water system characteristics. Investigations of site geology and hydrogeology to adequately characterize the physical properties and distribution of sediment types, and the characteristics of ground water

flow rate, ground water gradient, ground water discharge areas, and ground water quality data which may affect site cleanup alternatives evaluations;

(iii) Climate. Information regarding local and regional climatological characteristics which are likely to affect surface water hydrodynamics, ground water flow characteristics, and migration of sediment contaminants such as: Seasonal patterns of rainfall; the magnitude and frequency of significant storm events; prevailing wind direction and velocity;

(iv) Land use. Information characterizing human populations exposed or potentially exposed to sediment contaminants released from the site and present and proposed uses and zoning for shoreline areas contiguous with the site; and

(v) Natural resources and ecology. Information to determine the impact or potential impact of sediment contaminants from the site on natural resources and ecology of the area such as: Sensitive environment, local and regional habitat, plant and animal species, and other environmental receptors.

(d) Sediment contaminant sources. A description of the location, quantity, areal and vertical extent, concentration and sources of active and inactive waste disposal and other sediment contaminant discharge sources which affect or potentially affect the site. Where determined relevant by the department, the following information shall be obtained by the department from the responsible discharger:

(i) The physical and chemical characteristics, and the biological effects of site sediment contaminant sources;

(ii) The status of source control actions for permitted and unpermitted site sediment contaminant sources; and

(iii) A recommended compliance time frame for known permitted and unpermitted site sediment contaminant sources which affect or potentially affect implementation of the timing and scope of the site cleanup action alternatives.

(e) Human health risk assessment. The current and potential threats to human health that may be posed by sediment site contamination shall be evaluated using a risk assessment procedure approved by the department.

(f) Cleanup action alternatives. Each cleanup study plan shall include an evaluation of alternative cleanup actions that protect human health and the environment by eliminating, reducing, or otherwise controlling risks posed through each exposure pathway and migration route. The number and types of alternatives to be evaluated shall take into account the characteristics and complexity of the site.

(i) The proposed site cleanup alternatives may include establishment of site units, as defined in WAC 173-204-200(24), with individual cleanup standards within the range required by WAC 173-204-570, based on site physical characteristics and complexity, and cleanup standard alternatives established on consideration of cost, technical feasibility, and net environmental impact.

(ii) The proposed site cleanup alternatives may include establishment of a sediment recovery zone as authorized under WAC 173-204-590, Sediment recovery zones. Establishment or expansion of a sediment recovery zone shall not be used as a substitute for active cleanup actions, when such actions are practicable and meet the standards of WAC 173-204-580. The cleanup study plan shall include the following information for evaluation of sediment recovery zone alternatives:

(A) The time period during which a sediment recovery zone is projected to be necessary based on source loading and net environmental recovery processes determined by application of the department's sediment recovery zone computer models "CORMIX," "PLUMES," and/or "WASP," or an alternate sediment recovery zone model(s) approved by the department under WAC 173-204-130(4) as limited by the standards of this section and the department's best professional judgment;

(B) The legal location and landowner(s) of property proposed as a sediment recovery zone;

(C) Operational terms and conditions including, but not limited to proposed confirmational monitoring actions for discharge effluent and/or receiving water column and/or sediment chemical monitoring studies and/or bioassays to evaluate ongoing water quality, sediment quality, and biological conditions within and adjacent to the proposed or authorized sediment recovery zone to confirm source loading and recovery rates in the proposed sediment recovery zone.

(D) Potential risks posed by the proposed sediment recovery zone to human health and the environment;

(E) The technical practicability of elimination or reduction of the size and/or degree of chemical contamination and/or level of biological effects within the proposed sediment recovery zone; and

(F) Current and potential use of the sediment recovery zone, surrounding areas, and associated resources that are, or may be, affected by releases from the zone.

(G) The need for institutional controls or other site use restrictions to reduce site contamination risks to human health.

(iii) A phased approach for evaluation of alternatives may be required for certain sites, including an initial screening of alternatives to reduce the number of potential remedies for the final detailed evaluation. The final evaluation of cleanup action alternatives that pass the initial screening shall consider the following factors:

(A) Overall protection of human health and the environment, time required to attain the cleanup standard(s), and on-site and off-site environmental impacts and risks to human health resulting from implementing the cleanup alternatives;

(B) Attainment of the cleanup standard(s) and compliance with applicable federal, state, and local laws;

(C) Short-term effectiveness, including protection of human health and the environment during construction and implementation of the alternative; and

(D) Long-term effectiveness, including degree of certainty that the alternative will be successful, long-term reliability, magnitude of residual, biological and human health risk, and effectiveness of controls for ongoing discharges and/or controls required to manage treatment residues or remaining wastes cleanup and/or disposal site risks;

(g) Ability to be implemented. The ability to be implemented including the potential for landowner cooperation, consideration of technical feasibility, availability of needed off-site facilities, services and materials, administrative and regulatory requirements, scheduling, monitoring requirements, access for construction, operations and monitoring,

and integration with existing facility operations and other current or potential cleanup actions;

(h) Cost, including consideration of present and future direct and indirect capital, operation, and maintenance costs and other foreseeable costs;

(i) The degree to which community concerns are addressed;

(j) The degree to which recycling, reuse, and waste minimization are employed; and

(k) Environmental impact. Sufficient information shall be provided to fulfill the requirements of chapter 43.21C RCW, the State Environmental Policy Act. Discussions of significant short-term and long-term environmental impacts, significant irrevocable commitments of natural resources, significant alternatives including mitigation measures, and significant environmental impacts which cannot be mitigated shall be included.

(5) Cleanup study plan — sampling plan and recordkeeping requirements. The cleanup study plan shall address proposed sampling and recordkeeping activities to meet the standards of WAC 173-204-600, Sampling and testing plan standards, and WAC 173-204-610, Records management, and the standards of this section.

(6) Cleanup study plan site safety requirements. The cleanup study plan shall address proposed activities to meet the requirements of the Occupational Safety and Health Act of 1970 (29 U.S.C. Sec. 651 et seq.) and the Washington Industrial Safety and Health Act (chapter 49.17 RCW), and regulations promulgated pursuant thereto. These requirements are subject to enforcement by the designated federal and state agencies. Actions taken by the department under this chapter do not constitute an exercise of statutory authority within the meaning of section (4)(b)(1) of the Occupational Safety and Health Act.

(7) Cleanup study report. Each person performing a cleanup action to meet the intent of this chapter shall submit a cleanup study report to the department for review and written approval of a cleanup decision prior to implementation of the cleanup action. The sediment cleanup study report shall include the results of cleanup study site investigations conducted pursuant to subsection (4) of this section, and preferred and alternate cleanup action proposals based on the results of the approved cleanup study plan.

(8) Sampling access. In cases where the person(s) responsible for cleanup is not able to secure access to sample sediments on lands subject to a cleanup study plan approved by the department, the department may facilitate negotiations or other proceedings to secure access to the lands. Requests for department facilitation of land access for sampling shall be submitted to the department in writing by the person(s) responsible for the cleanup action study plan.

[Statutory Authority: RCW 90.48.220. 96-02-058, § 173-204-560, filed 12/29/95, effective 1/29/96. Statutory Authority: Chapters 43.21C, 70.105D, 90.48, 90.52, 90.54 and 90.70 RCW. 91-08-019 (Order 90-41), § 173-204-560, filed 3/27/91, effective 4/27/91.]

WAC 173-204-570 Sediment cleanup standards. (1) Applicability and purpose. This section establishes the sediment cleanup standards requirements for cleanup actions required under authority of chapter 90.48 and/or 70.105D RCW, and/or this chapter, and describes the process to determine site-specific cleanup standards.

(2) Cleanup objective. The sediment cleanup objective shall be to eliminate adverse effects on biological resources and significant health threats to humans from sediment contamination. The sediment cleanup objective for all cleanup actions shall be the sediment quality standards as defined in WAC 173-204-320 through 173-204-340, as applicable. The sediment cleanup objective identifies sediments that have no acute or chronic adverse effects on biological resources, and which correspond to no significant health risk to humans, as defined in this chapter.

(3) Minimum cleanup level. The minimum cleanup level is the maximum allowed chemical concentration and level of biological effects permissible at the cleanup site to be achieved by year ten after completion of the active cleanup action.

(a) The minimum cleanup levels criteria of WAC 173-204-520 shall be used in evaluation of cleanup alternatives per the procedures of WAC 173-204-560, and selection of a site cleanup standard(s) per the procedures of this section.

(b) The Puget Sound marine sediment minimum cleanup level is established by the following:

(i) Sediments with chemical concentrations at or below the chemical criteria of Table III shall be determined to meet the minimum cleanup level, except as provided in (b)(iv) of this subsection; and

(ii) Sediments with chemical concentrations that are higher than the chemical criteria of Table III shall be determined to exceed the minimum cleanup level, except as provided in (b)(iii) of this subsection; and

(iii) Sediments with biological effects that do not exceed the levels of WAC 173-204-520(3) shall be determined to meet the minimum cleanup level; and

(iv) Sediments with biological effects that exceed the levels of WAC 173-204-520(3) shall be determined to exceed the minimum cleanup level; and

(v) Sediments which exceed the sediment minimum cleanup level human health criteria or the other toxic, radioactive, biological, or deleterious substances criteria or the nonanthropogenically affected criteria of WAC 173-204-520 as determined by the department, shall be determined to exceed the minimum cleanup level.

(4) Sediment cleanup standard. The sediment cleanup standards are established on a site-specific basis within an allowable range of contamination. The lower end of the range is the sediment cleanup objective as defined in subsection (2) of this section. The upper end of the range is the minimum cleanup level as defined in subsection (3) of this section. The site specific cleanup standards shall be as close as practicable to the cleanup objective but in no case shall exceed the minimum cleanup level. For any given cleanup action, either a site-specific sediment cleanup standard shall be defined, or multiple site unit sediment cleanup standards shall be defined. In all cases, the cleanup standards shall be defined in consideration of the net environmental effects (including the potential for natural recovery of the sediments over time), cost and engineering feasibility of different cleanup alternatives, as determined through the cleanup study plan and report standards of WAC 173-204-560.

(5) All cleanup standards must ensure protection of human health and the environment, and must meet all legally applicable federal, state, and local requirements.

[Statutory Authority: Chapters 43.21C, 70.105D, 90.48, 90.52, 90.54 and 90.70 RCW. 91-08-019 (Order 90-41), § 173-204-570, filed 3/27/91, effective 4/27/91.]

WAC 173-204-580 Cleanup action decision. (1) Each person performing a cleanup action to meet the intent of this chapter shall comply with the standards of WAC 173-204-560(7), Cleanup study report. Except for cleanups conducted under chapter 70.105D RCW, the department shall review each cleanup study report and issue a written approval of one or more of the cleanup action alternatives described in the cleanup study report, or issue a written disapproval of all alternatives described in the cleanup study report. The department's approval of one or more cleanup study report cleanup action alternatives shall constitute the cleanup decision and shall be referenced in one or more permit or administrative authorities established under chapter 90.48 or 70.105D RCW, Section 401 of the federal Clean Water Act, chapter 173-225 WAC, establishment of implementation procedures of application for certification, or other administrative authorities available to the department. The department may approve the cleanup alternative recommended in the cleanup study report, may approve a different alternative discussed in the report, or may approve an alternative(s) with appropriate conditions. The department's disapproval of all cleanup study report cleanup action alternatives shall be issued by certified mail, return receipt requested, to the cleanup action proponent(s). The procedures for department review of the cleanup study report and selection of a cleanup action under chapter 70.105D RCW shall be in accordance with the procedures of chapter 173-340 WAC.

(2) All cleanup actions conducted under this chapter shall meet the following requirements:

(a) Receive department review and written approval of the preferred and/or alternate cleanup actions and necessary sediment recovery zones proposed in the cleanup study report prior to implementing a cleanup action(s);

(b) Achieve a degree of cleanup that is protective of human health and the environment;

(c) Achieve compliance with applicable state, federal, and local laws;

(d) Achieve compliance with site cleanup standards;

(e) Achieve compliance with sediment source control requirements pursuant to WAC 173-204-400 through 173-204-420, if necessary;

(f) Provide for landowner review of the cleanup study plan and report, and consider public concerns raised during review of the draft cleanup report; and

(g) Provide adequate monitoring to ensure the effectiveness of the cleanup action.

(3) Cleanup time frame.

(a) The cleanup action selected shall provide for a reasonable time frame for completion of the cleanup action, based on consideration of the following factors:

(i) Potential risks posed by the site to biological resources and human health;

(ii) Practicability of achieving the site cleanup standards in less than a ten-year period;

(iii) Current use of the site, surrounding areas, and associated resources that are, or may be, affected by the site contamination;

(iv) Potential future use of the site, surrounding areas, and associated resources that are, or may be, affected by the site contamination;

(v) Likely effectiveness and reliability of institutional controls;

(vi) Degree of, and ability to control and monitor, migration of contamination from the site; and

(vii) Natural recovery processes which are expected to occur at the site that will reduce concentrations of contaminants.

(b) The department may authorize cleanup time frames that exceed the ten-year period used in deriving the site cleanup standards of WAC 173-204-570(4) where cleanup actions are not practicable to accomplish within a ten-year period.

(4) In evaluating cleanup action alternatives, the department shall consider:

(a) The net environmental effects of the alternatives, including consideration of residual effects, recovery rates, and any adverse effects of cleanup construction or disposal activities;

(b) The relative cost-effectiveness of the alternatives in achieving the approved site cleanup standards; and

(c) The technical effectiveness and reliability of the alternatives.

(5) Public participation. The department shall provide opportunity for public review and comment on all cleanup action study plans, reports, and decisions reviewed and approved by the department, for cleanup actions conducted under this chapter.

(6) Land access. In cases where the person(s) responsible for cleanup is not able to secure access to lands subject to a cleanup action decision made pursuant to this section, the department may facilitate negotiations or other proceedings to secure access to the lands. Requests for department facilitation of land access shall be submitted to the department in writing by the person(s) named in the cleanup action approval.

[Statutory Authority: Chapters 43.21C, 70.105D, 90.48, 90.52, 90.54 and 90.70 RCW. 91-08-019 (Order 90-41), § 173-204-580, filed 3/27/91, effective 4/27/91.]

WAC 173-204-590 Sediment recovery zones. (1) The purpose of this section is to set forth the requirements for establishment and monitoring of sediment recovery zones to meet the intent of sediment quality dilution zones authorized pursuant to RCW 90.48.520. The standards of this section are applicable to cleanup action decisions made pursuant to WAC 173-204-580 where selected actions leave in place marine, low salinity, or freshwater sediments that exceed the applicable sediment quality standards of WAC 173-204-320 through 173-204-340.

(2) General requirements. Authorization of a sediment recovery zone by the department shall require compliance with the following general requirements:

(a) The sediment recovery zone shall be determined by application of the department's sediment recovery zone computer models "CORMIX," "PLUMES," and/or "WASP," or an alternate sediment recovery zone model(s) approved by the department under WAC 173-204-130(4) as limited by the standards of this section and the department's best professional judgment.

(b) The department shall provide specific authorization for a sediment recovery zone within the written approval of the cleanup study report and cleanup decision required under WAC 173-204-580.

(c) The time period during which a sediment recovery zone is authorized by the department shall be so stated in the department's written approval of the cleanup study report and cleanup decision.

(d) The department's written sediment recovery zone authorization shall identify the legal location and landowners of property proposed as a sediment recovery zone.

(e) Operational terms and conditions for the authorized sediment recovery zone pursuant to subsection (5) of this section shall be maintained at all times.

(f) Where cleanup is not practicable pursuant to the analysis under WAC 173-204-570(4), sediment recovery zones may be authorized for periods in excess of ten years.

(3) A sediment recovery zone authorization issued by the department under the authority of chapter 90.48 or 70.105D RCW, or other administrative means available to the department, does not constitute authorization to trespass on lands not owned by the applicant. These requirements do not address, and in no way alter, the legal rights, responsibilities, or liabilities of the permittee or landowner of the sediment recovery zone for any applicable requirements of proprietary, real estate, tort, and/or other laws not directly expressed as a requirement of this chapter.

(4) Prior to authorization, the department shall make a reasonable effort to identify and notify all landowners affected by the proposed sediment recovery zone. The department shall issue a sediment recovery zone notification letter to any person it believes to be a potentially affected landowner and other parties determined appropriate by the department. The notification letter shall be sent by certified mail, return receipt requested, or by personal service. The notification letter shall provide:

(a) The name of the person the department believes to be the affected landowner; and

(b) The names of other affected landowners to whom the department has sent a proposed sediment recovery zone notification letter; and

(c) The name of the sediment recovery zone applicant; and

(d) A general description of the proposed sediment recovery zone including the chemical(s) of concern by name and concentration, and the area of affected sediment; and

(e) The determination of the department concerning whether the proposed sediment recovery zone application meets the standards of this section; and

(f) The intention of the department whether to authorize the proposed sediment recovery zone; and

(g) Notification that the affected landowner may comment on the proposed sediment recovery zone. Any landowner comments shall be submitted in writing to the department within thirty days from the date of receipt of the notification letter, unless the department provides an extension.

(5) As determined necessary by the department, operational terms and conditions for the sediment recovery zone may include completion and submittal to the department of discharge effluent and/or receiving water column and/or sediment chemical monitoring studies and/or bioassays to evaluate ongoing water quality, sediment quality, and biological conditions within and adjacent to the proposed or authorized sediment recovery zone.

(6) The department shall review all data or studies conducted in accordance with a sediment recovery zone authorization to ensure compliance with the terms and conditions of the authorization and the standards of this section. Whenever, in the opinion of the department, the operational terms and conditions of a sediment recovery zone or the standards of this section are violated or there is a potential to violate the sediment recovery zone authorization or the standards of this section, or new information or a reexamination of existing information indicates the sediment recovery zone is no longer appropriate, the department may at its discretion:

(a) Require additional chemical or biological monitoring as necessary;

(b) Revise the sediment recovery zone authorization as necessary to meet the standards of this section;

(c) Require active contaminated sediment maintenance actions including additional cleanup in accordance with the standards of WAC 173-204-500 through 173-204-580; and/or

(d) Withdraw the department's authorization of the sediment recovery zone.

[Statutory Authority: RCW 90.48.220. 96-02-058, § 173-204-590, filed 12/29/95, effective 1/29/96. Statutory Authority: Chapters 43.21C, 70.105D, 90.48, 90.52, 90.54 and 90.70 RCW. 91-08-019 (Order 90-41), § 173-204-590, filed 3/27/91, effective 4/27/91.]

PART VI—SAMPLING AND TESTING PLANS/RECORDKEEPING

WAC 173-204-600 Sampling and testing plan standards. (1) Applicability. These standards apply to:

(a) Any person who samples sediments to determine compliance with this chapter;

(b) Any person who makes application to the department for authorization of a sediment impact zone under the standards of WAC 173-204-400 through 173-204-420; and

(c) Any person who samples sediments consistent with cleanup action plans approved and cleanup actions conducted under this chapter.

(2) All applicable persons shall at a minimum, develop, keep, and abide by a sediment sampling and testing plan. The sampling and testing plan shall be available for inspection at the request of the department. Sediment sampling and testing plans shall identify sampling dates, sample types, sample depths, sample composites, sample locations, sample positioning methods, sampling personnel, sampling equipment and methods, a description of methods of chemical analysis and biological testing, and quality assurance/quality control procedures.

(3) Sediment sampling locations and procedures and testing protocols and interpretations shall be those included in the Puget Sound protocols as amended and/or other methods approved by the department.

(4) The department reserves the right to revise these sampling and testing protocols when:

(a) The Puget Sound protocols are modified or updated per the approval of the department; or

(b) The department determines the Puget Sound protocols are not applicable to, or appropriate for analysis of sediment chemical contamination in any given case.

[Statutory Authority: Chapters 43.21C, 70.105D, 90.48, 90.52, 90.54 and 90.70 RCW. 91-08-019 (Order 90-41), § 173-204-600, filed 3/27/91, effective 4/27/91.]

WAC 173-204-610 Records management. (1) Applicability. These standards apply to:

(a) Any person who samples sediments to determine compliance with this chapter;

(b) Any person who makes application to the department for authorization of a sediment impact zone under the standards of WAC 173-204-400 through 173-204-420.

(2) All applicable persons shall keep sediment sampling and testing records as follows:

(a) Sediment sampling and testing plans which identify sampling dates, sample types, sample composites, sample locations, sample depths, sample positioning method, sampling personnel, sampling equipment and methods, quality assurance/quality control plans, and sampling procedures.

(b) Sediment removal records which identify removal dates, dredging contractor/equipment, volume of sediment removed, analytical data generated during the sediment removal process, and sediment disposal location(s).

(c) Records and results of sediment analyses conducted in accordance with this chapter, or as required under activities authorized under chapter 173-225 WAC, establishment of implementation procedures of application for certification.

(d) Records and results of inspections conducted as required under chapter 173-225 WAC, establishment of implementation procedures of application for certification.

(e) Sediment treatment records.

(f) Sediment onsite capping records.

(g) Sediment disposal records which identify sediment disposal location(s), onsite operating records, sediment volumes, disposal site property owner(s), and the chemical/biological nature of effluent discharges from the disposal location including the name, location, and quality of the receiving water.

(3) All sediment records as required under subsection (2) of this section must be furnished upon request, and made available at all reasonable times for inspection, by any officer, employee, or representative of the department who is designated by the director.

(4) All sediment records as required in this section shall be maintained for a period not less than ten years after the issuance, modification, or renewal of the applicable permit, or administrative order, or certification, or cleanup site delisting under WAC 173-204-540(6), whichever is greater.

[Statutory Authority: Chapters 43.21C, 70.105D, 90.48, 90.52, 90.54 and 90.70 RCW. 91-08-019 (Order 90-41), § 173-204-610, filed 3/27/91, effective 4/27/91.]

WAC 173-204-620 Severability. If any provision of this chapter or its application to any person or circumstance is held invalid, the remainder of this chapter or the application of the provision to other persons or circumstances shall not be affected.

[Statutory Authority: Chapters 43.21C, 70.105D, 90.48, 90.52, 90.54 and 90.70 RCW. 91-08-019 (Order 90-41), § 173-204-620, filed 3/27/91, effective 4/27/91.]

Chapter 173-205 WAC

WHOLE EFFLUENT TOXICITY TESTING AND LIMITS

WAC

173-205-010	Purpose.
173-205-020	Definitions.
173-205-030	Applicability.
173-205-040	Determining the need for effluent characterization.
173-205-050	Effluent testing for toxicity.
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173-205-080	Samples for whole effluent toxicity testing.
173-205-090	Response to noncompliance with whole effluent toxicity limits.
173-205-100	Toxicity identification/reduction evaluations.
173-205-110	Interruption of a toxicity identification/reduction evaluation.
173-205-120	Permit limit removed for attainment of a whole effluent toxicity performance standard.
173-205-130	Performance-based limits for acute whole effluent toxicity.

WAC 173-205-010 Purpose. The purpose of this chapter is to establish a procedure for deriving whole effluent toxicity limits in accordance with RCW 90.48.520, 40 CFR 122.44(d), and 40 CFR 122.44(e) for inclusion into National Pollutant Discharge Elimination System (NPDES) permits to protect aquatic life through the implementation of all known, available, and reasonable methods of prevention, control and treatment of toxicants and through the attainment of state water quality standards. The goal of this chapter is the eventual elimination of the discharge of toxics in toxic amounts.

[Statutory Authority: Chapter 90.48 RCW and 40 CFR 122.44. 93-20-110 (Order 91-54), § 173-205-010, filed 10/6/93, effective 11/6/93.]

WAC 173-205-020 Definitions. "Acute critical effluent concentration" means the maximum concentration of effluent during critical conditions at the boundary of the zone of acute criteria exceedance assigned in accordance with WAC 173-201A-100. The boundary may be based on distance or a percentage of flow. Where no zone of acute criteria exceedance is allowed, the acute critical effluent concentration shall be one hundred percent effluent.

"Acute statistical power standard" means that the maximum acceptable difference in survival that is not statistically significant between the control and the acute critical effluent concentration is twenty-nine percent. In order to determine if a whole effluent toxicity test with results that are not statistically significant meets the acute statistical power standard:

1. Subtract the mean survival across the replicates in the acute critical effluent concentration from the mean survival across the replicates in the control.

2. Divide this difference between the mean survivals by the mean survival across the control replicates.

3. Multiply the result by one hundred and express the product as a percent difference in survival.

4. If the percent difference in survival is equal to or less than twenty-nine percent, then the whole effluent toxicity test has met the power standard.

"Acute toxicity test" means a toxicity test with the death of test organisms as the measured response.

"Chronic critical effluent concentration" means the maximum concentration of effluent during critical conditions at the boundary of the mixing zone assigned in accordance with WAC 173-201A-100. The boundary may be based on distance or a percentage of flow. Where no mixing zone is allowed, the chronic critical effluent concentration shall be one hundred percent effluent.

"Chronic statistical power standard" means that the maximum acceptable difference in response that is not statistically significant between the control and the acute or chronic critical effluent concentration is thirty-nine percent. The chronic statistical power standard does not apply to Fisher's Exact Test. In order to determine if a whole effluent toxicity test with results that are not statistically significant meets the chronic statistical power standard:

1. Subtract the mean of the responses across the replicates in the acute or chronic critical effluent concentration from the mean of the responses across the replicates in the control.

2. Divide this difference between the mean responses by the mean response across the control replicates.

3. Multiply the result by one hundred and express the product as a percent difference in response.

4. If the percent difference in response is equal to or less than thirty-nine percent, then the whole effluent toxicity test has met the power standard.

"Chronic toxicity test" means a toxicity test which measures a sublethal effect such as failed fertilization, development, growth, or reproduction. Organism survival is also a measured endpoint in some chronic toxicity tests.

"Critical conditions" means those circumstances when the physical, chemical, and biological characteristics of the receiving water environment interact with the effluent to produce the greatest potential adverse impact on aquatic biota and existing and characteristic water uses.

"Department" means the department of ecology of the state of Washington.

"EC_{50}" (effective concentration, fifty percent) means the effluent concentration estimated to cause an adverse effect in fifty percent of the test organisms in a toxicity test involving a series of dilutions of effluent.

"Effluent characterization" means, for whole effluent toxicity, establishing the baseline toxicity level by toxicity testing using multiple species on effluent samples taken over the seasons of one year. The effluent characterization toxicity test results shall also be used to determine the need for water quality-based whole effluent toxicity limits.

"Effluent screening tests" are full duration whole effluent toxicity tests that are conducted as a screen for toxicity in one hundred percent effluent or some other high concentration of effluent. No other effluent concentrations (except the control) are tested until toxicity has been detected in the effluent screening test.

"Hypothesis testing" means the mathematical technique for comparing the average response of the replicates of an effluent concentration to the average response of the control replicates at the end of a toxicity test in order to determine if there is a statistically significant difference in response within a level of certainty such as ninety-five percent or ninety-nine percent. For purposes of this chapter, Fisher's Exact Test is used as a hypothesis test for analyzing survival in the cladoceran survival and reproduction test.

"IC_{50}" (inhibition concentration, fifty percent) means the effluent concentration estimated to cause a fifty percent reduction in a biological function in a toxicity test involving a series of dilutions of effluent.

"LC_{50}" (lethal concentration, fifty percent) means the effluent concentration estimated to cause death in fifty percent of the test organisms in a toxicity test involving a series of dilutions.

"Multiple species" toxicity testing means conducting separate toxicity tests using different species on the same effluent sample in order to assess its effect on a broad range of organisms such as fish, invertebrates, or plants.

"NOEC" means the "no observed effect concentration" which is the highest concentration of effluent in a toxicity test shown to have no statistically significant adverse effects when compared to an appropriate control.

"Point estimates" are estimates of the concentration of effluent resulting in a specified level of effect and are determined either graphically or statistically from the concentration-response relationship determined from a toxicity test having a series of dilutions.

"Rapid screening test" means a screening toxicity test on one hundred percent effluent or some other high concentration of effluent in order to detect unanticipated increases in toxicity. Examples of rapid screening tests include twenty-four hour EPA acute tests, acute toxicity tests using rotifers produced from cysts, bacterial bioluminescence tests, and two-day life cycle tests with rotifers.

"Reasonable potential" under this chapter means that the department has determined, in accordance with 40 CFR 122.44 (d)(v) and based on a whole effluent toxicity performance standard, that the effluent could cause in-stream toxicity in violation of WAC 173-201A-040(1).

"Species rotation" means the switching to a different toxicity test from the list in a discharge permit for each effluent monitoring sample according to a rotation schedule set by the department.

"Statistically significant" under this chapter means establishing that a difference in response between a control and an effluent concentration is likely due to toxicity and not variability. The statistical technique for making this determination shall be Fisher's Exact Test or a one-tailed hypothesis test specified or approved by the department. These hypothesis tests shall be conducted at the ninety-five percent confidence level although the department may approve tests at the

ninety-nine percent confidence level if the statistical power of the test will not be adversely affected.

"Technology-based controls" means methods for the treatment, prevention, or control of pollutants such as best management practices, biological treatment, physical-chemical treatment, use of nontoxic process chemicals, secondary containment for spills, control of site run-on/run-off, equipment maintenance, equipment operation, implementing site-specific pollution prevention plans, and any other technique with the same goals.

"Toxicity identification/reduction evaluation" means the process for determining the effective control of effluent toxicity by identifying the toxicant and/or its source, and developing a method to reduce toxicity by source control or treatment.

"Toxicity test" means a direct measurement of the adverse effect of a substance in a controlled test using living organisms. In the context of this rule, "toxicity test" and "whole effluent toxicity test" are synonymous.

"Whole effluent toxicity" means the total toxic effect of an effluent measured directly with a toxicity test so that the interactions of all toxicants present in the effluent are assessed.

"Whole effluent toxicity performance standard" means a level of effluent toxicity that is consistently so much lower than is necessary to meet state water quality standards (chapter 173-201A WAC) that no reasonable potential exists to violate the water quality standards. For acute toxicity, the performance standard is the median survival in one hundred percent effluent being equal to or greater than eighty percent and no individual test result showing less than sixty-five percent survival in one hundred percent effluent. For chronic toxicity, the performance standard is no chronic toxicity test demonstrating a statistically significant difference in response between the control and a test concentration equal to the acute critical effluent concentration. For permittees that are ineligible for an approved mixing zone, the performance standard will equal or be close to equal (in the case of acute toxicity) the water quality-based effluent toxicity limit.

"Whole effluent toxicity test" means a toxicity test on an effluent.

[Statutory Authority: Chapter 90.48 RCW and 40 CFR 122.44. 93-20-110 (Order 91-54), § 173-205-020, filed 10/6/93, effective 11/6/93.]

WAC 173-205-030 Applicability. The requirements in this chapter shall apply to all NPDES permits issued by the department of ecology (department).

(1) The department shall evaluate all NPDES permit applications in accordance with WAC 173-205-040 to determine if the discharge needs an effluent characterization for toxicity as described in WAC 173-205-050.

(2) In accordance with WAC 173-205-050 and 173-205-130, the department shall describe in the permit the circumstances under which whole effluent toxicity limits will be applied to the discharge in order to meet:

(a) The requirement for all known, available, and reasonable methods of prevention, control, and treatment of toxicants; or

(b) Appropriate water quality standards.

(3) The determination to require or not to require whole effluent toxicity characterization in a permit shall be explained in the fact sheet of the permit prepared pursuant to WAC 173-220-060.

(4) The department may delay effluent characterization for whole effluent toxicity for existing facilities that are under a compliance schedule in a permit, administrative order, or other legally enforceable mechanism to implement technology-based controls or to achieve compliance with water quality-based effluent limits.

(5) The department may require whole effluent toxicity testing or rapid screening testing as a condition of permit application, as a condition of an NPDES permit, or as a regulatory order.

(a) If an effluent characterization for whole effluent toxicity as described in WAC 173-205-050(1) has been conducted as a condition of permit application, then the permit issued in response to that application shall not contain a requirement for effluent characterization provided that all determinations required by this chapter can be made to the department's satisfaction.

(b) If an effluent characterization for whole effluent toxicity which meets the requirements of WAC 173-205-050(1) has been conducted in a previous permit, permit application, or administrative order, then subsequent permits shall not contain a requirement for effluent characterization provided that all determinations required by this chapter can be made to the department's satisfaction and unless WAC 173-205-060 applies.

(6) The department may conduct or require permittees to conduct toxicity tests on ambient water or may use or require permittees to use ambient water as dilution water in order to facilitate the determination of compliance with WAC 173-201A-100.

(7) A toxicity test conducted on effluent samples taken by parties other than the permittee can be used to make any determination required by this chapter or in a permit issued in accordance with this chapter as long as all appropriate sampling, toxicity testing, and QA/QC requirements specified in the permit have been followed.

(8) The department shall require permittees that have not been assigned a whole effluent toxicity limit because of the determination in WAC 173-205-050 (2)(a), or 173-205-120(1) to conduct as a part of the application for permit renewal at least one toxicity test on a fish, an invertebrate, and any appropriate plant unless the permittee has been monitoring with rapid screening tests required in accordance with WAC 173-205-120(2).

(9) Permittees may conduct any toxicity test using a full dilution series provided that all of the testing and information requirements of this chapter and the permit are met, including using the statistical analysis specified in the permit.

[Statutory Authority: Chapter 90.48 RCW and 40 CFR 122.44. 93-20-110 (Order 91-54), § 173-205-030, filed 10/6/93, effective 11/6/93.]

WAC 173-205-040 Determining the need for effluent characterization. (1) A discharge from a facility is considered to have a risk for aquatic toxicity and to need an effluent characterization for acute and chronic whole effluent toxicity if the facility or discharge meet any of the following criteria:

(a) Uses, stores, produces as a product or waste, or transfers any hazardous substance listed in 40 CFR 302.4 with a statutory code of 1 or 2 (referring to Sections 311 (b)(4) or 307(a) of the Clean Water Act) unless:

(i) The permittee demonstrates to the department's satisfaction that the facility is designed and managed so that these substances are kept physically separated at all times, including spills or any other accidental release, from any part of the wastewater collection, treatment, or discharge system; or

(ii) The amount of any hazardous substance at the facility is never more than the statutory reportable quantity listed in 40 CFR 302.4;

(b) Discharges in its effluent any toxic pollutant listed in Appendix D of 40 CFR Part 122 for which there are no water quality criteria for aquatic life protection listed in 40 CFR 131.36 (b)(1) or WAC 173-201A-040(3);

(c) Belongs to an industry category identified in 40 CFR Part 122, Appendix A;

(d) Is a municipal sewage collection and treatment system which receives a discharge from any industry category identified in 40 CFR Part 403, Appendix C;

(e) Except for permittees with whole effluent toxicity limits or permittees that have no whole effluent toxicity limit because of the determination in WAC 173-205-120(1), any facility which exceeded the acute or chronic whole effluent toxicity performance standard within the last five years;

(f) Any facility with suspected toxicity because of apparent damage to aquatic biota; or

(g) Any other discharger that the department determines has the potential to discharge toxics in toxic amounts.

(2) The following types of discharges are excluded from requirements for whole effluent toxicity characterization unless subsection (1) of this section applies:

(a) Once-through noncontact cooling water without biocides;

(b) Drinking water treatment plant effluent;

(c) Dewatering of sand or gravel mining operations;

(d) Sump pump discharges of ground water or rain water only;

(e) Construction dewatering;

(f) Discharges from fish hatcheries and other aquaculture;

(g) Seafood processors; or

(h) Any other discharge that the department determines does not have the potential to contain toxics in toxic amounts.

(3) A chronic whole effluent toxicity characterization is not necessary in any permit if the effluent has been or will be characterized for acute whole effluent toxicity and if the discharge receives at least one thousand to one dilution at the edge of a mixing zone assigned in accordance with WAC 173-201A-100.

[Statutory Authority: Chapter 90.48 RCW and 40 CFR 122.44. 93-20-110 (Order 91-54), § 173-205-040, filed 10/6/93, effective 11/6/93.]

WAC 173-205-050 Effluent testing for toxicity. (1) The department shall require dischargers meeting the risk definition of WAC 173-205-040(1) to characterize the effluent for toxicity during permit application or during the first year of the permit term.

(a) Each effluent sample during effluent characterization shall be tested for toxicity using multiple species which shall at a minimum include a fish, an invertebrate, and, if deemed appropriate by the department, a plant.

(b) The sampling frequency during effluent characterization and compliance monitoring shall be at least twice per year and sampling shall be timed to cover the seasonal extremes of the year such as wet-dry or cold-hot.

(c) The duration of an acute toxicity test performed for effluent characterization or compliance monitoring shall be forty-eight hours for an invertebrate and ninety-six hours for a fish.

(d) For effluent characterization and compliance monitoring, the department shall use toxicity tests published in 40 CFR Part 136, in EPA toxicity test manuals, or those methods approved by the department considering the following criteria:

(i) The existence of a detailed written description of the test method;

(ii) Interlaboratory comparisons of the method;

(iii) Adequate testing with complex wastes such as wastewater;

(iv) Measurement of an effect that is clearly adverse to the production of the species such as reduced survival or growth, abnormal development, or failed reproduction; and

(v) Use of test organisms that represent taxonomic families native to the state.

(e) Toxicity testing for effluent characterization under this section, compliance monitoring as described in WAC 173-205-070, and additional monitoring as described in WAC 173-205-090 or 173-205-120 (2)(d) shall be performed by laboratories accredited by the department for the specific toxicity test in accordance with chapter 173-50 WAC.

(f) Upon request, the department may approve the performance of toxicity tests for effluent characterization or compliance monitoring for publicly owned treatment works discharging less than one-half million gallons per day and small businesses as defined in RCW 43.31.025(4) as effluent screening tests using one hundred percent effluent for the acute toxicity tests and the acute critical effluent concentration for the chronic toxicity tests.

(i) If an acute one hundred percent effluent screening test demonstrates less than eighty percent survival, the test shall be repeated as soon as possible on a fresh sample using the full dilution series test described in the permit or regulatory order.

(ii) The chronic screening tests shall be expected to have no statistically significant difference in response between the acute critical effluent concentration and the control using the method in Appendix H of EPA/600/4-89/001 or an equivalent method approved by the department, or the test shall be repeated as soon as possible on a fresh sample using the full dilution series test described in the permit or regulatory order. The chronic effluent screening tests shall also meet the chronic statistical power standard.

(2) Effluent characterization shall be used to establish:

(a) Whether a reasonable potential under 40 CFR 122.44 (d)(v) for acute or chronic toxicity exists which would require a whole effluent toxicity limit.

(i) If at the end of effluent characterization the median survival in one hundred percent effluent is less than eighty percent, or if any individual test result shows less than sixty-five percent survival in one hundred percent effluent, then a reasonable potential for acute conditions in the receiving water has been demonstrated, and the whole effluent acute toxicity limit described in WAC 173-205-070 shall be applied to the discharge.

(ii) If during effluent characterization any chronic toxicity test using the method in Appendix H of EPA/600/4-89/001 or an equivalent method approved by the department demonstrates a statistically significant difference in response between the control and the acute critical effluent concentration, then a reasonable potential for chronic conditions in the receiving water has been demonstrated, and the whole effluent chronic toxicity limit described in WAC 173-205-070 shall be applied to the discharge.

(iii) If the acute critical effluent concentration is unknown during effluent characterization, all chronic toxicity tests shall determine the NOEC for comparison to the acute critical effluent concentration when it becomes available.

(A) The determination of these NOECs shall comply with the chronic statistical power standard.

(B) If effluent characterization is completed and neither the acute critical effluent concentration nor the chronic critical effluent concentration is known, then the department may require the permittee to continue the toxicity testing as conducted in effluent characterization except using single species tests rather than multiple species tests.

(b) The permittee shall analyze the toxicity test data during effluent characterization to establish a baseline toxicity level by calculating appropriate point estimates such as the LC_{50}, the IC_{50}, or the EC_{50}.

[Statutory Authority: Chapter 90.48 RCW and 40 CFR 122.44. 93-20-110 (Order 91-54), § 173-205-050, filed 10/6/93, effective 11/6/93.]

WAC 173-205-060 Additional effluent characterizations. (1) A permittee that has not been assigned a whole effluent toxicity limit because of attaining the performance standards described in WAC 173-205-050 (2)(a) or 173-205-120(1) will not be required to conduct a new effluent characterization in accordance with WAC 173-205-050(1) unless the department determines that:

(a) The permittee has made changes to processes, materials, or treatment that could result in an increase in effluent toxicity.

(b) A municipal sewage collection and treatment system has experienced the addition of any new source as defined in 40 CFR 403.3(k) that belongs in any industry category identified in 40 CFR Part 403, Appendix C and cannot demonstrate that the new source is nontoxic or that the pretreatment program and local limits are adequate to control toxicity from the new source.

(c) The average dry weather flow volume has changed by ten percent or more due to changes in plant processes, production changes, or increases in the number of users. Changes in flow volume due to water conservation measures would not indicate a need for a new characterization unless this resulted in a final effluent containing a higher concentration of potentially toxic pollutants.

(2) It is the responsibility of the permittee to demonstrate to the department's satisfaction that no change has occurred to the facility which would cause or increase effluent toxicity.

(a) The permittee must make this demonstration as soon as possible after any change listed in subsection (1) of this section has occurred but under no circumstances later than the time of application for permit renewal.

(b) Toxicity testing by the permittee shall be accepted as a demonstration that such facility changes have not increased effluent toxicity providing that the department has approved the number and types of toxicity tests performed.

(c) The department may accept other demonstrations that toxicity has not increased based on other scientific disciplines such as chemistry.

(3) An increase in effluent toxicity is assumed to have occurred and a new effluent characterization shall be required if toxicity in excess of a performance standard has been demonstrated during:

(a) Toxicity testing conducted in accordance with WAC 173-205-030(8); or

(b) Toxicity testing conducted in response to a rapid screening test as required by WAC 173-205-120 (2)(d).

(4) A permittee does not need a new effluent characterization for acute or chronic toxicity if the discharge is being routinely monitored for compliance with a whole effluent toxicity limit using species rotation. This determination only applies to the type of toxicity (acute or chronic) covered by the whole effluent toxicity limit.

(5) A permittee may be required to further characterize effluent toxicity if a new toxicity test method has been approved pursuant to WAC 173-205-050 (1)(d) that, in the opinion of the department, should replace one of or supplement an existing toxicity test in the permit because it:

(a) May be more sensitive to effluent toxicity; or

(b) Has a closer ecological or taxonomic relationship to receiving water species.

(6) Only the new toxicity test method is needed for effluent characterization in the case of a new toxicity test being approved.

[Statutory Authority: Chapter 90.48 RCW and 40 CFR 122.44. 93-20-110 (Order 91-54), § 173-205-060, filed 10/6/93, effective 11/6/93.]

WAC 173-205-070 Monitoring for compliance with whole effluent toxicity limits. (1) A discharge is in compliance with the narrative water quality standard for acute toxicity when the most recent acute toxicity test has shown no statistically significant difference in response between the acute critical effluent concentration and a control.

(a) Acute toxicity testing shall be performed using one hundred percent effluent, the acute critical effluent concentration, and a control.

(b) The acute critical effluent concentrations in a whole effluent toxicity test shall be compared to the control using the method in Appendix H of EPA/600/4-89/001 or an equivalent method approved by the department.

(c) If a statistically significant difference in response is determined between the control and the acute critical effluent concentration in an acute toxicity test, then the effluent has failed the test for compliance with the whole effluent acute

toxicity limit and the permittee shall immediately begin the process described in WAC 173-205-090.

(d) The compliance test for acute toxicity shall be considered to be a maximum daily discharge permit limitation.

(2) A discharge is in compliance with the narrative water quality standard for chronic toxicity when the most recent chronic toxicity test has shown no statistically significant difference in response between the chronic critical effluent concentration and a control.

(a) Chronic toxicity testing shall be performed using the acute critical effluent concentration, the chronic critical effluent concentration, and a control.

(b) The chronic critical effluent concentrations in a whole effluent toxicity test shall be compared to the control using the method in Appendix H of EPA/600/4-89/001 or an equivalent method approved by the department.

(c) If a statistically significant difference in response is determined between the control and the chronic critical effluent concentration in a chronic toxicity test, then the effluent has failed the test for compliance with the whole effluent chronic toxicity limit and the permittee shall immediately begin the process described in WAC 173-205-090.

(d) The compliance test for chronic toxicity shall be considered to be a maximum daily discharge permit limitation.

(3) During compliance monitoring, the one hundred percent effluent concentration in an acute test and the acute critical effluent concentration in a chronic test shall be performed in order to assess the attainment of the performance standards in accordance with WAC 173-205-120(1).

(4) Toxicity tests conducted for monitoring for compliance with whole effluent toxicity limits shall meet, as appropriate, the acute or chronic statistical power standards. If a whole effluent toxicity test does not meet appropriate statistical power standard, then the effluent shall immediately be resampled and the toxicity test repeated with the number of replicates increased in order to meet the statistical power standard.

(5) The permittee shall provide the department with all information and records required in the permit in order to evaluate toxicity test results to determine their adequacy for effluent characterization, compliance monitoring, effluent screening tests, or rapid screening tests.

(a) The result of the most recent reference toxicant test conducted by the laboratory for that toxicity test method shall accompany each whole effluent toxicity test result.

(b) Every reference toxicant test shall be conducted on a minimum of five dilutions.

(c) The response in all replicates at every effluent concentration and the control shall be reported for all tests analyzed by hypothesis testing so that the department can check for compliance with statistical power standards and for anomalous test results which should not be used for the compliance determinations in this chapter.

[Statutory Authority: Chapter 90.48 RCW and 40 CFR 122.44. 93-20-110 (Order 91-54), § 173-205-070, filed 10/6/93, effective 11/6/93.]

WAC 173-205-080 Samples for whole effluent toxicity testing. (1) All samples taken for whole effluent toxicity testing shall be handled as specified in the permit and in any EPA manuals referenced in the permit.

(a) No attempts shall be made before or during the whole effluent toxicity test to modify the sample to remove or otherwise change any toxicant except as provided in subsection (3) of this section.

(b) Except as provided in subsection (3) of this section, no attempts shall be made before or during the whole effluent toxicity test to adjust the hardness, dissolved oxygen, pH, or any other physical or chemical property of the sample, dilution water, or test solutions except as required in the toxicity test method, in the permit, or in appropriate EPA manuals.

(c) For those permittees who received permits prior to the effective date of this chapter, the department may approve in writing the request of a permittee to modify samples, dilution water, or test solutions as long as such modifications meet the intent of this chapter.

(2) Except as provided in subsection (3) of this section, the department shall require that samples for whole effluent toxicity testing be taken just before the chlorinator for dischargers who meet all of the following:

(a) Add chlorine to treated effluent for the purpose of disinfection;

(b) Have received effluent limits based on the water quality criteria for chlorine; and

(c) Are developing or implementing plans to achieve compliance with the chlorine limits.

(3) If any permittee has begun implementing a plan to install dechlorination, then the sample may, as specified by the department, be chemically dechlorinated by a similar method before whole effluent toxicity testing.

(4) The whole effluent toxicity test shall be run on an unmodified sample of final effluent if the effluent can meet effluent limits based on the water quality criteria for chlorine.

[Statutory Authority: Chapter 90.48 RCW and 40 CFR 122.44. 93-20-110 (Order 91-54), § 173-205-080, filed 10/6/93, effective 11/6/93.]

WAC 173-205-090 Response to noncompliance with whole effluent toxicity limits. (1) If a toxicity test result fails the compliance test described in WAC 173-205-070, then the permittee shall take a new sample as soon as possible for retesting and begin additional monitoring unless the permittee chooses the option in subsection (4) of this section.

(a) If the noncompliance was with an acute toxicity limit, the additional monitoring shall be conducted weekly for four weeks using the same toxicity test as in the failed compliance test or shall be conducted on the next four discharge events in the case of an intermittent discharge.

(b) If the noncompliance was with a chronic toxicity limit, the additional monitoring shall be conducted monthly for three months using the same toxicity test as in the failed compliance test or shall be conducted on the next three discharge events in the case of an intermittent discharge.

(c) This additional monitoring shall be conducted the same as in effluent characterization and shall determine the LC_{50}, IC_{50}, or EC_{50}, as appropriate, and measure compliance with the permit limit.

(d) If the permittee believes that the compliance test failure will be identified by the department as an anomalous test result in accordance with WAC 173-205-070 (5)(c), the permittee may send the department notification with the compliance test result that the compliance test result might be anom-

alous and that the permittee intends to take only one additional sample for toxicity testing and wait for notification from the department before completing the additional monitoring required in this subsection.

(i) The notification must identify the reason for considering the compliance test result to be anomalous.

(ii) The permittee shall take the additional sample and retest as soon as possible after receiving the compliance test result.

(iii) The additional test result shall replace the compliance test result upon determination by the department that the compliance test result was anomalous.

(iv) The permittee shall complete all of the additional monitoring required by this subsection as soon as possible after notification by the department that the compliance test result was not anomalous.

(v) If the additional sample fails the compliance test, then the permittee shall proceed without delay to complete all of the additional monitoring required by this subsection.

(e) The department may determine any compliance test result to be anomalous regardless of whether it was accompanied by permittee notification that it may be anomalous.

(f) The department may notify a permittee to take another sample for toxicity testing because a compliance test result was anomalous and could not be used to determine compliance in accordance with this section.

(2) Any permittee failing the compliance test for a whole effluent toxicity limit shall take all reasonable actions to achieve compliance including conducting a toxicity identification/reduction evaluation as defined in WAC 173-205-100.

(3) The discharger shall return to the original monitoring frequency after conducting the additional monitoring described in subsection (1) of this section.

(4) The permittee may proceed directly to a toxicity identification/reduction evaluation and not perform the additional testing.

[Statutory Authority: Chapter 90.48 RCW and 40 CFR 122.44. 93-20-110 (Order 91-54), § 173-205-090, filed 10/6/93, effective 11/6/93.]

WAC 173-205-100 Toxicity identification/reduction evaluations. (1) If only the routine compliance monitoring toxicity test which initiated the additional monitoring described in WAC 173-205-090 fails the compliance test, then the toxicity can be considered as transient and the discharger shall:

(a) Search all recent facility records which might explain the transient toxicity (operating records, monitoring results, inspection records, spill reports, weather records, production records, etc.); and

(b) Submit a report to the department on the possible causes and preventive measures for the transient toxicity within thirty days of the last additional sample.

(2) If any toxicity test fails the compliance test described in WAC 173-205-070 during the additional monitoring conducted in accordance with WAC 173-205-090(1), then the permittee shall submit a plan to the department within sixty days of the last additional sample for a toxicity identification/reduction evaluation.

(a) As a part of this plan, the permittee may request that the department allow up to six months before beginning the investigation outlined in the EPA manuals for facility personnel to attempt to control the most likely sources of toxicity through efforts such as changes in plant operation, replacement of a toxic material used in the facility, or improvement of best management practices.

(i) The department shall approve the request in writing.

(ii) The department approval may be sent to the permittee before completion of the review of the toxicity identification/reduction evaluation plan.

(b) The toxicity identification/reduction evaluation plan shall be based on procedures in the latest versions of the EPA guidance documents for conducting toxicity reduction evaluations or toxicity identification evaluations.

(i) The toxicity identification/reduction evaluation plan need not include any procedure from the EPA manuals that is not necessary to the goal of controlling the discharge of whole effluent toxicity by the permittee.

(ii) The department may approve any modifications or additions to the EPA procedures that will improve the ability to identify or reduce toxicity.

(c) The permittee shall submit to the department a toxicity identification/reduction evaluation plan revised in accordance with department comments within thirty days after receipt of department comments.

(3) The permittee shall implement the toxicity identification/reduction evaluation plan immediately upon notification by the department of plan approval.

(4) The department may allow a reduction in compliance monitoring for whole effluent toxicity limits during a toxicity identification/reduction evaluation if:

(a) Effluent toxicity is being regularly measured and reported to the department; and

(b) The department determines that the toxicity identification/reduction evaluation is being conducted in a timely manner.

[Statutory Authority: Chapter 90.48 RCW and 40 CFR 122.44. 93-20-110 (Order 91-54), § 173-205-100, filed 10/6/93, effective 11/6/93.]

WAC 173-205-110 Interruption of a toxicity identification/reduction evaluation. (1) If, in performing a toxicity identification/reduction evaluation, four consecutive acute or chronic toxicity samples taken over at least one month are not sufficiently toxic to perform the toxicity identification/reduction evaluation, then the department may approve the interruption of the toxicity identification/reduction evaluation and require that:

(a) The permittee returns to the monitoring frequency specified in the permit.

(b) Sufficient sample volume be taken each time to allow the lab to perform both a toxicity test and begin a toxicity identification/reduction evaluation.

(c) The extra sample shall be stored at four degrees Celsius in the dark while the toxicity test is being performed.

(d) A toxicity identification/reduction evaluation shall begin as soon as the whole effluent toxicity test demonstrates noncompliance with the limit.

(e) Samples may be discarded from storage after completion of the toxicity test if the whole effluent toxicity limit was not violated.

(2) If toxicity testing shows compliance with whole effluent toxicity limits for one year after interruption of the toxicity identification/reduction evaluation, then the permittee may cease taking the extra sample.

[Statutory Authority: Chapter 90.48 RCW and 40 CFR 122.44. 93-20-110 (Order 91-54), § 173-205-110, filed 10/6/93, effective 11/6/93.]

WAC 173-205-120 Permit limit removed for attainment of a whole effluent toxicity performance standard. (1) Whole effluent toxicity limits assigned pursuant to WAC 173-205-050(2) are eligible for removal upon permit renewal if:

(a) The permittee has demonstrated compliance with the whole effluent toxicity performance standard associated with that limit for a minimum of three consecutive test years following effluent characterization or for an entire subsequent permit term; and

(b) The permittee has not made any changes within the last three years which would otherwise require additional effluent characterization pursuant to WAC 173-205-060.

(2) The department may condition the nonassignment of a whole effluent toxicity limit for a permittee that has attained a performance standard described in WAC 173-205-050 (2)(a), or subsection (1) of this section on routine monitoring with a rapid screening test.

(a) Before making such condition, the department shall consider the potential for treatment system upsets, control equipment failures, spills, accidental releases to the wastewater system, and any other event which could result in a toxic discharge.

(i) Chemical monitoring may be required to assess increases in effluent toxicity if it:

(A) Can account for the potential sources of toxicity; and

(B) Is associated with water quality-based effluent limits or any other permit mechanism that requires a response to increases in effluent toxicity.

(ii) Rapid screening tests shall be required if the department determines there is the potential for an event at the facility which could result in a toxic discharge that would otherwise go unnoticed.

(b) Rapid screening tests for acute toxicity shall be expected to have a maximum mortality proportion of twenty hundredths in one hundred percent effluent.

(i) The mortality proportion shall be calculated by subtracting the number of test organisms living in one hundred percent effluent at the end of the test from the number of test organisms living in the control and dividing the result by the number of test organisms living in the control.

(ii) The one hundred percent effluent test concentration and the control shall have equal numbers of test organisms.

(c) Rapid screening tests for chronic toxicity shall be expected to have no statistically significant difference in response between the acute critical effluent concentration and the control using the method in Appendix H of EPA/600/4-89/001 or an equivalent method approved by the department. Rapid screening tests for chronic toxicity must meet the chronic statistical power standard.

(d) Whenever a rapid screening test result fails to achieve the standard of (b) or (c) of this subsection, the permittee shall be required to immediately retest with all of the acute or chronic toxicity tests used in the last permit with whole effluent toxicity testing.

(e) The results of the acute or chronic toxicity tests conducted in response to a rapid screening test shall be evaluated by the department to determine the need for new whole effluent toxicity characterization requirements in the next permit or the need for immediate administrative orders to implement the regulatory process which begins in WAC 173-205-090.

(f) All rapid screening tests shall be performed by laboratories accredited by the department in accordance with chapter 173-50 WAC.

[Statutory Authority: Chapter 90.48 RCW and 40 CFR 122.44. 93-20-110 (Order 91-54), § 173-205-120, filed 10/6/93, effective 11/6/93.]

WAC 173-205-130 Performance-based limits for acute whole effluent toxicity. (1) In accordance with RCW 90.48.520 and 40 CFR 122.44(e), the department shall evaluate all applications for an NPDES permit to determine whether the applicant is applying all known, available, and reasonable methods of prevention, control, and treatment of toxicants.

(2) The department may place the whole effluent toxicity performance standard for acute toxicity into permits as a limit on a case-by-case basis pursuant to 40 CFR § 125.3 (d)(3).

(a) In determining compliance with an acute whole effluent toxicity limit based on the performance standard, a minimum of three toxicity tests shall be used in calculating the median.

(b) For the first two toxicity tests conducted to determine compliance with the performance standard-based acute whole effluent toxicity limit, compliance shall be determined as a minimum of sixty-five percent survival in one hundred percent effluent.

(3) The department may establish performance-based limits for whole effluent toxicity for an entire category of dischargers. Any such limit applied to an entire category of dischargers shall be accomplished by rule making.

[Statutory Authority: Chapter 90.48 RCW and 40 CFR 122.44. 93-20-110 (Order 91-54), § 173-205-130, filed 10/6/93, effective 11/6/93.]

Chapter 173-208 WAC
GRANT OF AUTHORITY SEWERAGE SYSTEMS

WAC

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WAC 173-208-010 Authority. RCW 90.48.165 empowers the department of ecology, as successor to the water pollution control commission to grant to any city,

town, or municipal corporation operating a sewerage system including treatment facilities the authority to issue permits for the discharge of wastes into such system, provided that the department finds to its satisfaction that the sewerage system and inspection and control program operated and conducted by the city, town, or municipal corporation will protect the public interest in the quality of the state's water as provided in the Water Pollution Control Act, chapter 90.48 RCW. Permits for the discharge of wastes into publicly operated sewerage systems are required for commercial or industrial operations by virtue of RCW 90.48.160.

[Order DE 75-10, § 173-208-010, filed 4/30/75.]

WAC 173-208-020 Purpose. The purpose of this chapter is to set forth the procedures and criteria for the granting of authority for the administration of the permit program of RCW 90.48.160 as it pertains to waste discharges into publicly operated sewerage systems to the governing bodies of cities, towns, and municipal corporations operating such sewerage systems and receiving into them industrial and commercial wastes as hereinafter defined.

[Order DE 75-10, § 173-208-020, filed 4/30/75.]

WAC 173-208-030 Declaration of policy. (1) The department encourages qualified cities, towns, and other municipal corporations to apply for a grant of authority to conduct and operate a permit system for the regulation of commercial and industrial waste discharges into their sewerage systems in accordance with RCW 90.48.165.

(2) The department is committed to the policy of maintaining the highest possible standards of water quality within the state in compliance with the basic aims expressed in RCW 90.48.010 and national policies and goals expressed by the Federal Water Pollution Control Act Amendments of 1972, (FWPCAA). The implementation of a permit issuance program by any city, town, or municipal corporation shall be continuously evaluated by the department for compliance with these policies, aims, and goals.

(3) In compliance with the requirements of the National Pollutant Discharge Elimination System (NPDES), as provided for in the FWPCAA, the department shall maintain its enforcement of compliance of effluent limitation standards upon publicly owned or operated treatment works under their NPDES permits. Under such permit, any municipality granted authority hereunder to administer a permit program as hereinafter defined shall continue to be primarily responsible for its effluent quality according to the terms of such NPDES permit.

[Order DE 75-10, § 173-208-030, filed 4/30/75.]

WAC 173-208-040 Definitions. As used in this chapter:

(1) "Applicant" shall mean that municipality applying to the department for authority to administer the permit program pursuant to RCW 90.48.165.

(2) "Application for authorization" shall mean that application submitted by a municipality seeking permit-issuing authority pursuant to RCW 90.48.165.

(3) "Application to discharge" shall mean that information required from a discharger in acquiring a permit to discharge commercial and industrial wastes into a municipal sewerage system.

(4) "Commercial and industrial wastes" shall mean the wastes, whether solid or liquid, from any commercial or industrial operation, other than domestic sewage.

(5) "Department" shall mean the department of ecology.

(6) "Discharge" shall mean any commercial or industrial operation which results in the disposal of solid or liquid waste material into a sewerage system operated by a municipality which discharges into the public waters of the state.

(7) "Enforcement action" shall mean any administrative or judicial action initiated to achieve compliance with the conditions of a discharge permit, regulations of the department, and water pollution control laws of this state or of the federal government.

(8) "Municipality" shall mean any city, town, or municipal corporation established according to the applicable laws of this state.

(9) "Permit" shall mean the official authorization to dispose of commercial and industrial wastes into waters, to include all regulatory constraints and conditions described therein, issued to a discharger.

(10) "Permit program" shall mean the process of granting or denying by municipalities, authorized as herein provided, of approval of applications to discharge into the sewerage system of such municipalities, the monitoring and inspection of dischargers, and the taking of appropriate enforcement action.

(11) "Sewerage system" shall mean any system operated by a municipality for the collection, transfer, treatment, and disposal of sewage.

[Order DE 75-10, § 173-208-040, filed 4/30/75.]

WAC 173-208-050 Applications for authorization. No particular form shall be required for an application for authorization. No such decision shall be made on any such application, however, unless the applicant supplies to the department:

(1) A request from the municipality seeking authority to conduct a permit program for the discharge of commercial and industrial wastes into its sewerage system in accordance with state and federal water pollution control laws, regulations, and policies as now exist or are hereafter amended.

(2) A listing of all self-monitoring and reporting procedures to be required, and inspection and other regulatory control criteria and procedures applicant intends to use in administering the permit program.

(3) An estimate of the financial resources the applicant will commit to the permit program on an annual basis and the sources of funding therefor.

(4) A commitment showing the number of personnel who will be assigned to the permit program, either on a full-time or part-time basis, broken down by person-years or person-hours or other appropriate measure of personnel usage, and assurances that such personnel commitment is or will be adequately funded.

(5) An assurance that the background, experience and continuing training of personnel to be assigned to the permit program will be sufficient to achieve and maintain the goals and policies of state and federal water pollution control acts.

(6) A copy of the actual or proposed municipal ordinance or resolution intended for use in establishing and conducting the proposed waste discharge permit system.

(7) An outline of the procedures to be used in processing individual permit applications.

(8) Copies of the application for permit and of the proposed permit format.

(9) A description of enforcement procedures to be followed.

(10) A list of all potential dischargers into the sewerage system which will require permits pursuant to any delegation hereunder.

(11) If the applicant is the recipient of a federal grant for any phase of treatment works construction to be utilized by the discharger, it shall demonstrate to the department that it has adopted a system of charges to assure that each discharger shall pay a proportionate share of the costs of operation and maintenance of any waste treatment services provided by the applicant, and further demonstrate that it has made provision for the payment to the applicant by dischargers of that portion of the cost of construction of such treatment works which is allocable to the treatment of commercial and industrial wastes to the extent attributable to the federal share of the cost of construction.

(12) Any additional information required by the department.

[Order DE 75-10, § 173-208-050, filed 4/30/75.]

WAC 173-208-060 Delegation procedure. (1) Upon receipt of any application for authorization, the department shall review such application, and if necessary, require additional information to make a determination thereon.

(2) Upon notification by the department that all information required by it has been received, the applicant shall twice publish notice of the application for authorization in a newspaper of general circulation in the area to which the request relates, providing thirty days for written comments on the request to be received by the department. Such notice shall be in a form provided by the department. In addition to such publication, a copy of such notice shall be mailed by the applicant to the governing body of each sewer district and of general purpose government, all or a portion of which lies within the jurisdictional boundaries to which the request relates.

(3) After review of the completed application and of comments timely received in response to the notice provided for above, the department shall either deny the request, giving its reasons therefor, find that there is sufficient public interest to warrant holding a public hearing on the application, or issue an order approving the same in whole or in part.

(4) If a public hearing is held upon proper notice, the department shall afford interested parties the opportunity to present their views on the application, and, upon review of all information gathered, shall either deny the application or issue an order approving the same.

(5) Any approval order issued by the department hereunder shall contain conditions and restrictions relative to the administration of the permit program and shall be binding upon the municipality so long as such approval remains in effect. Said approval order may subsequently be altered or amended in whole or in part to reflect changes in applicable laws, regulations, or policies relating to water pollution control. The department shall give the municipality thirty days notice of any contemplated amendments, unless an emergency precludes the giving of such notice, and will invite comments from the municipality.

[Order DE 75-10, § 173-208-060, filed 4/30/75.]

WAC 173-208-070 Scope of authorization. (1) Authority granted hereunder shall be limited to the administration of the permit program within applicant's jurisdictional boundaries as now existing or as hereafter changed.

(2) Grants of authority to municipalities hereunder shall be limited to the conduct of a permit program for the discharge of commercial and industrial wastes into a sewerage system and shall confer no authority to issue permits for the discharge of such wastes into surface or groundwaters of the state. Administration of permit requirements for waste discharges other than commercial and industrial wastes entering a sewerage system, shall remain solely with the department.

(3) No authorization made hereunder shall be construed as limiting or abridging the powers or abrogating the duties required of the department. The department may initiate appropriate enforcement action against a municipality to whom authority has been granted hereunder, or against any discharger for violations of any requirements of chapter 90.48 RCW, the FWPCAA, or regulations thereunder.

[Order DE 75-10, § 173-208-070, filed 4/30/75.]

WAC 173-208-080 Permits under authorized programs. Any municipality to which permit authority has been granted hereunder may use its own application and permit forms when the same have been approved by the department.

[Order DE 75-10, § 173-208-080, filed 4/30/75.]

WAC 173-208-090 Conformity with department rules. (1) It is contemplated that various applicants may present to the department differing regulatory criteria designed to cope with particular local needs and conditions. For the purposes of determining whether an applicant intends to administer the permit program in accordance with applicable state and federal laws, regulations, and policies, the department shall evaluate proposed regulatory criteria on the basis of whether such criteria, if implemented, would be at least as stringent as state or federal requirements.

(2) All implementing ordinances or resolutions shall contain a proviso requiring that the permit program as administered by any municipality be revised, as necessary and to the satisfaction of the department, to conform with any changes in applicable rules and regulations which may be adopted by the department or the federal government subsequent to the effective date of the grant of authority. All amendments of implementing ordinances or resolutions shall be submitted to the department for approval prior to passage.

(3) Any municipality granted authority hereunder to administer a permit program shall adhere to, as a minimum requirement for commercial and industrial dischargers, the state or federal pretreatment standards and regulations, as now exist or are hereafter amended. If necessary to impose

more stringent standards in order to meet the effluent limitations contained in its National Pollutant Discharge Elimination System (NPDES) permit, the municipality shall impose and enforce such stricter pretreatment requirements as necessary to meet these limitations pursuant to the authority preserved to the state by section 510 of the FWPCAA.

(4) Nothing in this grant of authority shall relieve the municipality of its obligation of compliance with the terms and conditions of its NPDES permit or the requirements of state and federal laws and rules pertaining to water pollution control.

[Order DE 75-10, § 173-208-090, filed 4/30/75.]

WAC 173-208-100 Withdrawal of authorization. Whenever the department shall determine that a municipality to which a grant of authority has been made hereunder is not administering the permit system in accordance with an approval order issued hereunder, state and/or federal water pollution control acts and regulations or the applicable implementing ordinance or resolution of the municipality, the department shall notify such local government and, if corrective action is not taken within a reasonable time, not to exceed sixty days, the department by order, shall withdraw the authority. Permits issued under this program shall automatically terminate if the authority to issue the same is revoked by the department and the provisions of RCW 90.48.160 shall apply.

[Order DE 75-10, § 173-208-100, filed 4/30/75.]

WAC 173-208-110 Requirement of program review. It is the objective of the department to place reliance for internal system controls upon any municipality granted authority hereunder and to avoid complex procedures for the measuring and evaluating the effectiveness of a municipal permit system, insofar as is consistent with statutory responsibilities of the department under the provisions of chapter 90.48 RCW. A program review shall be necessary, however, to fulfill those responsibilities and shall be accomplished through the following actions:

(1) The municipality shall immediately provide the department with a copy of each application for discharge, together with a copy of each permit issued thereupon, or notice of denial thereof.

(2) The municipality will devise and submit a quarterly written report to the department within thirty days after the end of each calendar year quarter to reflect the following:

(a) A listing of all permits issued by the municipality during the previous quarter.

(b) A report on the status of compliance by dischargers having permits that incorporate compliance schedules.

(c) A brief narrative covering violations and enforcement actions, if any, occurring during the reporting period, to include specifics as to cause and effect of the violation and preventative measures taken.

(d) Maintain copies of monitoring reports submitted by all permit holders for purposes of inspection by department personnel.

(e) Identification of problem areas or potential problem areas which may be resolved with the assistance of the department.

(3) The municipality and the department shall hold joint staff meetings involving personnel from municipal and department staff no less than semiannually for purposes of discussing functional problems and solutions related to industrial and commercial waste discharge permit systems.

[Order DE 75-10, § 173-208-110, filed 4/30/75.]

WAC 173-208-120 Appeal. Any person aggrieved by a final ruling by a municipality upon an application for a permit or violations of the same under a delegated program may obtain review thereof by filing an appeal, within thirty days, with the pollution control hearings board, pursuant to chapter 43.21B RCW and chapter 371-08 WAC. The defense of any such appeal shall be the responsibility of the municipality.

[Order DE 75-10, § 173-208-120, filed 4/30/75.]

Chapter 173-216 WAC
STATE WASTE DISCHARGE PERMIT PROGRAM

WAC

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WAC 173-216-010 Purpose. (1) The purpose of this chapter is to implement a state permit program, applicable to the discharge of waste materials from industrial, commercial, and municipal operations into ground and surface waters of the state and into municipal sewerage systems. However, this regulation does not apply to the following:

(a) The injection of fluids through wells which are regulated by the Underground injection control program, chapter 173-218 WAC.

(b) The point source discharge of pollutants into navigable waters of the state which are regulated by the National Pollutant Discharge Elimination System (NPDES) Permit Program, chapter 173-220 WAC.

(c) The discharge of pollutants into waters of the state which are regulated by the Waste discharge general permit program, chapter 173-226 WAC.

(2) Permits issued under this chapter are designed to satisfy the requirement for discharge permits under the Water Pollution Control Act, chapter 90.48 RCW and to implement applicable pretreatment requirements under section 307 of the Federal Water Pollution Control Act (33 U.S.C. §1251 et seq.).

[Statutory Authority: Chapter 90.48 RCW. 93-10-099 (Order 92-55), § 173-216-010, filed 5/5/93, effective 5/19/93. Statutory Authority: Chapter 43.21A RCW. 86-06-040 (Order 86-03), § 173-216-010, filed 3/4/86. Statutory Authority: RCW 43.21A.445. 84-06-023 (Order DE 84-02), § 173-216-010, filed 2/29/84. Statutory Authority: Chapters 43.21A and 90.48 RCW. 83-23-073 (Order DE 83-29), § 173-216-010, filed 11/18/83. Formerly chapter 372-24 WAC.]

WAC 173-216-020 Policy enunciated. (1) It shall be the policy of the department in carrying out the requirements of this chapter, to maintain the highest possible standards to ensure the purity of all waters of the state and to require the use of all known, available and reasonable methods to prevent and control the discharge of wastes into the waters of the state. Notwithstanding that standards of quality established for the waters of the state would not be violated, wastes and other materials shall not be allowed to enter such waters which will reduce the existing quality thereof, except in those situations where it is clear that overriding considerations of public interest will be served.

(2) Consistent with this policy, the discharge of waste materials into municipal sewerage systems which would interfere with, pass through, or otherwise be incompatible with such systems or which would contaminate the sludge will not be permitted.

(3) Consistent with this policy, the department will act to prevent the disposal of wastes that present a risk to human health, including the potential, chronic effects of lifetime exposure to waste materials.

[Statutory Authority: Chapter 43.21A RCW. 86-06-040 (Order 86-03), § 173-216-020, filed 3/4/86. Statutory Authority: RCW 43.21A.445. 84-06-023 (Order DE 84-02), § 173-216-020, filed 2/29/84. Statutory Authority: Chapters 43.21A and 90.48 RCW. 83-23-073 (Order DE 83-29), § 173-216-020, filed 11/18/83.]

WAC 173-216-030 Definitions. For the purposes of this chapter the following definitions shall be applicable:

(1) "Beneficial uses" shall include, but not be limited to, use for domestic water, irrigation, fish, shellfish, game, and other aquatic life, municipal, recreation, industrial water, generation of electric power, and navigation.

(2) "Dangerous wastes" means any discarded, useless, unwanted, or abandoned nonradioactive substances, including but not limited to certain pesticides, or any residues or containers of such substances which are disposed of in such quantity or concentration as to pose a substantial present or potential hazard to human health, wildlife, or the environment because such wastes or constituents or combinations of such wastes:

(a) Have short-lived, toxic properties that may cause death, injury, or illness or have mutagenic, teratogenic, or carcinogenic properties; or

(b) Are corrosive, explosive, flammable, or may generate pressure through decomposition or other means (Hazardous Waste Disposal Act, chapter 70.105 RCW).

(3) "Department" means department of ecology.

(4) "Domestic wastewater" means water carrying human wastes, including kitchen, bath, and laundry wastes from residences, buildings, industrial establishments or other places, together with such ground water infiltration or surface waters as may be present (submission of plans and reports for construction of wastewater facilities, chapter 173-240 WAC).

(5) "Domestic wastewater facility" means all structures, equipment, or processes required to collect, carry away, treat, reclaim, or dispose of domestic wastewater together with such industrial waste as may be present. In case of subsurface sewage treatment and disposal, the term is restricted to mean those facilities treating and disposing of domestic wastewater only from:

(a) A septic tank with subsurface sewage treatment and disposal and an ultimate design capacity exceeding fourteen thousand five hundred gallons per day at any common point; or

(b) A mechanical treatment system or lagoon followed by subsurface disposal with an ultimate design capacity exceeding three thousand five hundred gallons per day at any common point (submission of plans and reports for construction of wastewater facilities, chapter 173-240 WAC).

(6) "FWPCA" means Federal Water Pollution Control Act as amended by 1981 amendment (33 U.S.C. §466 et seq.).

(7) "General permit" means a permit which covers multiple dischargers within a designated geographical area, in lieu of individual permits being issued to each discharger.

(8) "Industrial wastewater" means water or liquid-carried waste from industrial or commercial processes, as distinct from domestic wastewater. These wastes may result from any process or activity of industry, manufacture, trade or business, from the development of any natural resource, or from animal operations such as feed lots, poultry houses, or dairies. The term includes contaminated stormwater and, also, leachate from solid waste facilities (Submission of plans and reports for construction of wastewater facilities, chapter 173-240 WAC).

(9) "Interfere with" means a discharge by an industrial user which, alone or in conjunction with discharges by other sources, inhibits or disrupts the POTW, its treatment processes or operations, or its sludge processes, use or disposal and which is a cause of a violation of any requirement of the POTW's NPDES permit (including an increase in the magnitude or duration of a violation) or of the prevention of sewage sludge use or disposal by the POTW in accordance with the following statutory provisions and regulations or permits issued thereunder (or more stringent state or local regulations): Section 405 of the FWPCA, the Solid Waste Disposal Act (SWDA) (including Title II, more commonly referred to as the Resource Conservation and Recovery Act (RCRA), and including state regulations contained in any state sludge management plan prepared pursuant to Subtitle D or the SWDA, the Clean Air Act, the Toxic Substances Control Act, and the Marine Protection Research and Sanctuaries Act.

(10) "Municipal sewerage system" or "publicly owned treatment works (POTW)" means a publicly owned domestic wastewater facility or a privately owned domestic wastewater facility that is under contract to a municipality.

(11) "NPDES" means National Pollutant Discharge Elimination System permit program under section 402 of FWPCA.

(12) "New source" means any building, structure, facility, or installation from which there is or may be a discharge, the construction of which commenced; after proposal of Pre-

treatment Standards under section 307(c) of the FWPCA which are applicable to such sources.

(13) "Pass through" means the discharge of pollutants through a municipal sewerage system into waters of the state in quantities or concentrations which are a cause of or significantly contribute to a violation of any requirement of water quality standards for waters of state of Washington, chapter 173-201 WAC, or of the NPDES or state waste discharge permit, including an increase in the magnitude or duration of a violation (section 307 of FWPCA). Failure to obtain approval of an application for a new or increased discharge or change in the nature of the discharge according to WAC 173-216-110(5) would constitute such a violation.

(14) "Person" includes any political subdivision, local, state or federal government agency, municipality, industry, public or private corporation, partnership, association, firm, individual, or any other entity whatsoever.

(15) "Pretreatment" means the reduction of the amount of pollutants, the elimination of pollutants, or the alteration of the nature of pollutant properties in wastewater prior to or in lieu of discharging or otherwise introducing such pollutants into a POTW.

(16) "Pretreatment requirements" means any substantive or procedural state, local, or federal requirements or standards developed under chapter 90.48 RCW and sections 307 and/or 402 of the FWPCA.

(17) "Pretreatment standards," "categorical standards," or "standards," means any pollutant discharge limitations, including those developed under section 307 (b) and (c) of the FWPCA and implemented through regulations in 40 CFR Subchapter N, that apply to the discharge of nondomestic wastes to POTWs. This term includes prohibitive discharge limits established pursuant to WAC 173-216-060.

(18) "Subsurface sewage treatment and disposal" means the physical, chemical, or biological treatment and disposal of domestic wastewater within the soil profile by placement beneath the soil surface in trenches, beds, seepage pits, mounds, or fills (Submission of plans and reports for construction of wastewater facilities, chapter 173-240 WAC).

(19) "Waste materials" means any discarded, abandoned, unwanted or unrecovered material(s), except the following are not waste materials for the purposes of this chapter:

(a) Discharges into the ground or ground water of return flow, unaltered except for temperature, from a ground water heat pump used for space heating or cooling: Provided, That such discharges do not have significant potential, either individually, or collectively, to affect ground water quality or uses.

(b) Discharges of stormwater that is not contaminated or potentially contaminated by industrial or commercial sources.

(20) "Waters of the state" means all lakes, rivers, ponds, streams, inland waters, ground waters, salt waters, and all other waters and water courses within the jurisdiction of the state of Washington.

(21) In the absence of other definitions as set forth herein, the definitions as set forth in 40 CFR Part 403.3 shall be used for circumstances concerning the discharge of waste into sewerage systems.

[Statutory Authority: Chapter 90.48 RCW. 93-10-099 (Order 92-55), § 173-216-030, filed 5/5/93, effective 5/19/93. Statutory Authority: Chapter 43.21A RCW. 86-06-040 (Order 86-03), § 173-216-030, filed 3/4/86. Statutory Authority: Chapters 43.21A and 90.48 RCW. 83-23-073 (Order DE 83-29), § 173-216-030, filed 11/18/83.]

WAC 173-216-040 Authorization required. (1) No waste materials may be discharged from any commercial or industrial operation into waters of the state, or into any municipal sewerage system, nor may waste materials be discharged from any municipal sewerage system into waters of the state, except as authorized pursuant to this chapter, chapter 173-220 or 173-226 WAC.

(2) Any person who constructs or modifies or proposes to construct or modify wastewater facilities must first comply with the regulations for submission of plans and reports for construction of wastewater facilities, chapter 173-240 WAC.

[Statutory Authority: Chapter 90.48 RCW. 93-10-099 (Order 92-55), § 173-216-040, filed 5/5/93, effective 5/19/93. Statutory Authority: Chapters 43.21A and 90.48 RCW. 83-23-073 (Order DE 83-29), § 173-216-040, filed 11/18/83.]

WAC 173-216-050 Discharges not subject to permits. (1) The following discharges are not subject to permits under this chapter:

(a) Discharges to municipal sewerage systems of domestic wastewater from residential, commercial, or industrial structures.

(b) Any industrial or commercial discharge to a municipal sewerage system for which authority to issue permits has been granted to the municipality under RCW 90.48.165.

(c) Any industrial or commercial discharge to a municipal sewerage system operating under, and in compliance with, the applicable requirements of a local pretreatment program approved under section 307 of FWPCA and WAC 173-216-150. In the event of noncompliance, this exemption no longer applies and the discharger is immediately subject to enforcement action under chapter 90.48 RCW for discharging without a waste discharge permit.

(d) Discharges to municipal sewerage systems of wastes from industrial or commercial sources whose wastewater is similar in character and strength to normal domestic wastewater: Provided, That such discharges do not have the potential to adversely affect performance of the system. Examples of this type of discharge sources may include hotels, restaurants, laundries and food preparation establishments.

(e) Discharges for which an NPDES permit from the department is required pursuant to chapter 173-220 WAC.

(f) Discharges which are otherwise subject to the permit requirements of this chapter but which are covered under a general permit issued pursuant to chapter 173-226 WAC.

(g) Discharges of domestic wastewater from a septic tank with subsurface sewage treatment and disposal and an ultimate design capacity less than or equal to fourteen thousand five hundred gallons per day. These systems are governed by on-site sewage disposal systems, chapter 246-272 WAC which is administered by the Washington state department of health.

(h) Discharges of domestic wastewater from a mechanical treatment system or lagoon followed by subsurface disposal with an ultimate design capacity less than or equal to

three thousand five hundred gallons per day. These systems are governed by on-site sewage disposal systems, chapter 246-272 WAC which is administered by the Washington state department of health.

(2) A permit is required for any source subject to pretreatment standards promulgated under section 307 of FWPCA, unless exempted under subsections (1)(b) and (c) of this section.

(3) These exemptions shall not relieve any discharger from the requirement to apply all known, available, and reasonable methods to prevent and control waste discharges to the waters of the state, nor the requirement to obtain approval of plans and reports for the construction of wastewater facilities. Nothing herein shall limit the authority of the department to take enforcement action for any unlawful discharge of waste materials or other violations of the Water Pollution Control Act, chapter 90.48 RCW.

[Statutory Authority: Chapter 90.48 RCW. 93-10-099 (Order 92-55), § 173-216-050, filed 5/5/93, effective 5/19/93. Statutory Authority: Chapter 43.21A RCW. 86-06-040 (Order 86-03), § 173-216-050, filed 3/4/86. Statutory Authority: Chapter 90.48 RCW. 85-04-006 (Order 84-51), § 173-216-050, filed 1/25/85. Statutory Authority: Chapters 43.21A and 90.48 RCW. 83-23-073 (Order DE 83-29), § 173-216-050, filed 11/18/83.]

WAC 173-216-060 Prohibited discharges. (1) The discharge restrictions and prohibitions of dangerous waste regulations, chapter 173-303 WAC shall apply to this chapter.

(2) In addition, the following are prohibited:

(a) The discharge into a municipal sewerage system of substances prohibited from such discharge by section 307 of FWPCA.

(b) All of the following discharges to a municipal sewerage system:

(i) Waste materials that pass through the treatment works untreated or interfere with its operation or performance.

(ii) Any liquids, solids or gases which by reason of their nature or quantity are or may be sufficient either alone or by interaction to cause fire or explosion or be capable of creating a public nuisance or hazard to life or are sufficient to prevent entry into the sewers for their maintenance and repair or be injurious in any other way to the operation of the system or the operating personnel.

(iii) Solid or viscous substances which may cause obstruction to the flow in a sewer or other interference with the operation of the system.

(iv) Any wastewater having a pH less than 5.0 or greater than 11.0 or having any other corrosive property capable of causing damage or hazard to structures, equipment, or personnel of the system, unless the system is specifically designed to accommodate such discharge and the discharge is authorized by a permit under this chapter.

(v) Wastewater which would cause the influent temperature to exceed 40°C (104°F), unless the system is specifically designed to accommodate such discharge and the discharge is authorized by a permit under this chapter. In any case, any wastewater having a temperature which will interfere with the biological activity in the system is prohibited.

(vi) Any waste materials, including oxygen demanding waste materials (BOD, etc.), released in either a slug load or continuous discharge of such volume or strength as to cause interference to the system.

(vii) Any of the following discharges unless approved by the department under extraordinary circumstances, such as lack of direct discharge alternatives due to combined sewer service or need to augment sewage flows due to septic conditions:

(A) Noncontact cooling water in significant volumes.

(B) Stormwater, and other direct inflow sources.

(C) Wastewaters significantly affecting system hydraulic loading, which do not require treatment or would not be afforded a significant degree of treatment by the system.

[Statutory Authority: Chapter 43.21A RCW. 86-06-040 (Order 86-03), § 173-216-060, filed 3/4/86. Statutory Authority: Chapters 43.21A and 90.48 RCW. 83-23-073 (Order DE 83-29), § 173-216-060, filed 11/18/83.]

WAC 173-216-070 Application for a permit. (1) Any person not exempt under WAC 173-216-050, who proposes to discharge waste materials into waters of the state or into a municipal sewerage system, must file an application with the department at least sixty days prior to discharging, or in the case of an expiring permit, at least sixty days prior to the expiration of the permit.

(2) Applications for permits shall be on forms as prescribed by the department.

(3) The applicant must pay applicable fees pursuant to Wastewater discharge permit fees, chapter 173-224 WAC.

(4) The requirement for a permit application will be satisfied, if the discharger files:

(a) A completed permit application;

(b) When applicable, signature of approval by an authorized representative of the municipal sewerage system; and

(c) Any other information determined as necessary by the department.

(5) The application shall be signed in case of:

(a) Corporations, by a principal executive officer of at least the level of vice-president;

(b) A partnership, by a general partner;

(c) A sole proprietorship, by the proprietor;

(d) A municipal, state, federal, or other public facility, by either a principal executive officer or ranking elected official.

(6) In the case of application by a corporation, the principal executive officer shall personally examine the application and certify its truth, accuracy, and completeness.

[Statutory Authority: Chapter 90.48 RCW. 93-10-099 (Order 92-55), § 173-216-070, filed 5/5/93, effective 5/19/93. Statutory Authority: Chapter 43.21A RCW. 86-06-040 (Order 86-03), § 173-216-070, filed 3/4/86. Statutory Authority: Chapters 43.21A and 90.48 RCW. 83-23-073 (Order DE 83-29), § 173-216-070, filed 11/18/83.]

WAC 173-216-080 Confidentiality of information. (1) Any information submitted pursuant to this chapter may be claimed as confidential by the applicant. Any such claim must be asserted at the time of application or notification by placing the words "confidential business information" or similar words, on each page containing such information. If no claim is made, the department may make the information available to the public without further notice. Claims of confidentiality for the following information will be denied:

(a) Name and address of applicant;

(b) Description of proposal;

(c) Description of proposed receiving waters;

(d) Description of quality and quantity of receiving water; and

(e) Description of project's environmental impacts as provided in the State Environmental Policy Act, chapter 43.21C RCW;

(f) Description of quantity and characteristics of the effluent.

(2) Claims of confidentiality will be handled in accordance with the provisions of Disclosure—Campaign finances—Lobbying—Records, chapter 42.17 RCW, Public records, chapter 173-03 WAC, and Request for certification of records as confidential—Procedure, RCW 43.21A.160.

[Statutory Authority: Chapters 43.21A and 90.48 RCW. 83-23-073 (Order DE 83-29), § 173-216-080, filed 11/18/83.]

WAC 173-216-090 Public notice. (1) The applicant shall publish notice for each application in such a manner to inform and seek comments from interested and potentially interested persons.

(2) The public notice shall be in a form provided by the department and shall include at least the following:

(a) Name, address, and phone number of the office of the department issuing the public notice;

(b) Name and address of the applicant, and if different, of the facility or activity to be permitted;

(c) Brief description of the applicant's activities or operations which result in the discharge described in the application (e.g. municipal waste treatment plant, steel manufacturing, drainage from mining activities);

(d) A brief description of the discharge point(s);

(e) A statement of any tentative determination to issue or deny a permit for the discharge described in the application;

(f) A brief description of the procedures for the formulation of final determinations, including the thirty-day comment period required by subsection (6) of this section and any other means by which interested persons may influence or comment upon those determinations; and

(g) Address and phone number of the office of the department at which interested persons may obtain further information.

(3) Circulation of public notice shall include at least publishing once each week for two consecutive weeks, at applicants' expense, a public notice in a newspaper of general circulation in the county of the proposal. The department shall also, in the case of a discharge into a municipal sewerage system, notify the municipality of the intent to issue or deny a permit.

(4) The department may require the following additional public notification requirements:

(a) Mailing the notice to persons who have expressed an interest in being notified;

(b) Mailing the notice to other state agencies and local governments with a regulatory interest in the proposal;

(c) Posting the notice on the premises.

(5) The public notification requirements do not apply for permit renewal, if there are no increases in volume or changes in characteristics of discharge beyond those previously authorized.

(6) The public notice shall include a statement that any person may express their views in writing to the department within thirty days of the last date of publication.

(7) Any person submitting written comment or any other person may, upon request, obtain a copy of the department's final decision.

(8) The applicant shall provide the department with an affidavit of publication.

(9) The department shall add the name of any person, upon request, to a mailing list to receive copies of notices for all applications within the state or within a geographical area.

[Statutory Authority: Chapters 43.21A and 90.48 RCW. 83-23-073 (Order DE 83-29), § 173-216-090, filed 11/18/83.]

WAC 173-216-100 Public hearings. (1) Any interested person may request a public hearing with respect to permit applications for which notice is required pursuant to WAC 173-216-090. Any such request for a public hearing shall be filed within the thirty-day period prescribed in WAC 173-216-090(6) and shall indicate the interest of the party filing such request and the reasons why a hearing is warranted.

(2) The department shall hold a hearing if it determines there is a significant public interest.

(3) Any hearing held pursuant to this subsection shall be held at a time and place deemed appropriate by the department.

(4) Public notice of any hearing held pursuant to this section shall be circulated at least as widely as was the notice of the application.

(5) Procedures for the circulation of public notice for hearings held shall include at least the following:

(a) Notice shall be published, at the applicant's expense, in at least one newspaper of general circulation within the area of the discharge;

(b) Notice shall be sent to all persons who received a copy of the notice given under WAC 173-216-090;

(c) Notice shall be mailed to any person upon request;

(d) Notice shall be given at least thirty days in advance of the hearing.

(6) The contents of public notice of any hearing held pursuant to this section shall include at least the following:

(a) Name, address, and phone number of the office of the department holding the public hearing;

(b) The purpose of the hearing;

(c) Name and address of the applicant;

(d) A brief description of the point(s) of discharge;

(e) Information regarding the time and location for the hearing;

(f) A brief description of the nature of the hearing;

(g) A concise statement of the issues raised by the persons requesting the hearing, when applicable;

(h) A brief reference to the public notice issued for each application, including identification number and date of issuance; and

(i) Address and phone number of premises at which interested persons may obtain information.

[Statutory Authority: Chapters 43.21A and 90.48 RCW. 83-23-073 (Order DE 83-29), § 173-216-100, filed 11/18/83.]

WAC 173-216-110 Permit terms and conditions. (1) Any permit issued by the department shall specify conditions necessary to prevent and control waste discharges into the waters of the state, including the following, whenever applicable:

(a) All known, available, and reasonable methods of prevention, control, and treatment;

(b) Pretreatment requirements;

(c) Requirements pursuant to other laws, including the state's Hazardous Waste Disposal Act, chapter 70.105 RCW, the Solid waste management—Recovery and recycling, chapter 70.95 RCW, the Resource Conservation and Recovery Act of 1976, Public Law 95.190 or any other applicable local ordinances, state, or federal statute, to the extent that they pertain to the prevention or control of waste discharges into the waters of the state;

(d) Any conditions necessary to meet applicable water quality standards for surface waters or to preserve or protect beneficial uses for ground waters;

(e) Requirements necessary to avoid conflict with a plan approved pursuant to section 208(b) of FWPCA;

(f) Any conditions necessary to prevent and control pollutant discharges from plant site runoff, spillage or leaks, sludge or waste disposal, or raw material storage;

(g) Any appropriate monitoring, reporting and record keeping requirements as specified by the department, including applicable requirements under sections 307 and 308 of FWPCA;

(h) Schedules of compliance, including those required under sections 301 and 307 of FWPCA, which shall set forth the shortest reasonable time period to achieve the specified requirements; and

(i) Prohibited discharge requirements as contained in WAC 173-216-060.

(2) The permits shall be for a fixed term, not exceeding five years.

(3) Representatives of the department shall have the right to enter at all reasonable times in or upon any property, public or private, for the purpose of inspecting and investigating conditions relating to the pollution or the possible pollution of any waters of the state. Reasonable times shall include normal business hours, hours during which production, treatment, or discharge occurs, or times when the department suspects a violation requiring immediate inspection. Representatives of the department shall be allowed to have access to, and copy at reasonable cost, any records required to be kept under terms and conditions of the permit, to inspect any monitoring equipment or method required in the permit and to sample the discharge, waste treatment processes, or internal waste streams.

(4) The permittee shall at all times be responsible for the proper operation and maintenance of any facilities or systems of control installed by the permittee to achieve compliance with the terms and conditions of the permit. Where design criteria have been established, the permittee shall not permit flows or waste loadings to exceed approved design criteria or approved revisions thereto.

(5) A new application, or supplement to the previous application, shall be submitted, along with required engineering plans and reports, whenever a new or increased discharge or change in the nature of the discharge is anticipated which is not specifically authorized by the current permit. Such application shall be submitted at least sixty days prior to any proposed changes.

(6) In the event the permittee is unable to comply with any of the permit terms and conditions due to any cause, the permittee shall:

(a) Immediately take action to stop, contain, and cleanup unauthorized discharges or otherwise stop the violation, and correct the problem;

(b) Immediately notify the department of the failure to comply; and

(c) Submit a detailed written report to the department within thirty days, unless requested earlier by the department, describing the nature of the violation, corrective action taken and/or planned, steps to be taken to prevent a recurrence, and any other pertinent information.

(7) In the case of discharge into a municipal sewerage system, the department shall consider in the final permit documents the requirements of the municipality operating the system.

(8) Permits for domestic wastewater facilities shall be issued only to a public entity, except in the following circumstances:

(a) Facilities existing or approved for construction with private operation on or before the effective date of this chapter, until such time as the facility is expanded;

(b) Facilities that serve a single nonresidential, industrial, or commercial establishment. Commercial/industrial complexes serving multiple owners or tenants and multiple residential dwelling facilities such as mobile home parks, apartments, and condominiums are not considered single commercial establishments for the purpose of the preceding sentence.

(c) Facilities that are owned by nonpublic entities and under contract to a public entity shall be issued a joint permit to both the owner and the public entity.

[Statutory Authority: Chapter 43.21A RCW. 86-06-040 (Order 86-03), § 173-216-110, filed 3/4/86. Statutory Authority: Chapters 43.21A and 90.48 RCW. 83-23-073 (Order DE 83-29), § 173-216-110, filed 11/18/83.]

WAC 173-216-120 Transfer of a permit. (1) A permit is automatically transferred to a new owner or operator if:

(a) A written agreement between the old and new owner or operator containing a specific date for transfer of permit responsibility, coverage, and liability is submitted to the department; and

(b) The department does not notify the permittee of the need to modify, or revoke and reissue the permit.

(2) Unless a permit is automatically transferred according to subsection (1) of this section, a permit may be transferred only if modified or revoked and reissued to identify the new permittee and to incorporate such other requirements as determined necessary by the department.

[Statutory Authority: Chapters 43.21A and 90.48 RCW. 83-23-073 (Order DE 83-29), § 173-216-120, filed 11/18/83.]

WAC 173-216-125 Monitoring. Use of registered or accredited laboratories:

(1) Except as established in subsection (3) of this section, monitoring data submitted to the department in accordance with this chapter shall be prepared by a laboratory accredited under the provisions of chapter 173-50 WAC no later than July 1, 1993, for all state permittees with a permitted average flow rate greater than five million gallons per day.

These requirements are effective and binding on all permittees under the authority of rule, regardless of whether they have been included as conditions of a permit.

(2) Except as established in subsection (3) of this section, monitoring data submitted to the department in accordance with this chapter shall be prepared by a laboratory registered or accredited under the provisions of chapter 173-50 WAC no later than July 1, 1994, for all state permittees not covered under subsection (1) of this section.

These requirements are effective and binding on all permittees under the authority of rule, regardless of whether they have been included as conditions of a permit.

(3) The following parameters need not be accredited or registered:

(a) Flow;

(b) Temperature;

(c) Settleable solids;

(d) Conductivity, except that conductivity shall be accredited if the laboratory must otherwise be registered or accredited;

(e) pH, except that pH shall be accredited if the laboratory must otherwise be registered or accredited; and

(f) Parameters which are used solely for internal process control.

[Statutory Authority: RCW 43.21A.230. 93-20-011 (Order 92-53), § 173-216-125, filed 9/22/93, effective 10/23/93; 90-21-090 (Order 90-21), § 173-216-125, filed 10/19/90, effective 11/19/90.]

WAC 173-216-130 Modification, suspension, and revocation of permits. (1) Any permit issued under this chapter can be modified, suspended, or revoked, in whole or in part by the department for the following causes:

(a) Violation of any permit term or condition;

(b) Obtaining a permit by misrepresentation or failure to fully disclose all relevant facts;

(c) A material change in quantity or type of waste disposal;

(d) A material change in the condition of the waters of the state; or

(e) Nonpayment of permit fees assessed pursuant to RCW 90.48.610.

(2) The department may modify a permit, including the schedule of compliance or other conditions, if it determines good and valid cause exists, which includes promulgation or revisions of categorical standards.

(3) Any permit issued under this chapter shall remain in effect until terminated in writing by the department, except that continuation of an expired permit (pursuant to RCW 90.48.200), shall terminate upon coverage under a general permit issued pursuant to chapter 173-226 WAC.

[Statutory Authority: Chapter 90.48 RCW. 93-10-099 (Order 92-55), § 173-216-130, filed 5/5/93, effective 5/19/93. Statutory Authority: Chapter 43.21A RCW. 88-12-035 (Order 88-8), § 173-216-130, filed 5/26/88, effective 7/1/88; 86-06-040 (Order 86-03), § 173-216-130, filed 3/4/86. Statutory Authority: Chapters 43.21A and 90.48 RCW. 83-23-073 (Order DE 83-29), § 173-216-130, filed 11/18/83.]

WAC 173-216-140 Relationship with NPDES permits. For a given facility, permit requirements under this chapter and NPDES permit requirements under Water Pollution Control Act, RCW 90.48.260, shall under normal circumstances, be contained in a single permit document.

[Statutory Authority: Chapter 90.48 RCW. 93-10-099 (Order 92-55), § 173-216-140, filed 5/5/93, effective 5/19/93. Statutory Authority: Chapters 43.21A and 90.48 RCW. 83-23-073 (Order DE 83-29), § 173-216-140, filed 11/18/83.]

WAC 173-216-150 Delegation of authority to issue permits for discharges into sewer systems. Qualified cities, towns, and other municipal corporations who administer a local permit program shall fulfill the requirements of chapter 173-208 WAC and 40 CFR Part 403.

[Statutory Authority: Chapter 43.21A RCW. 86-06-040 (Order 86-03), § 173-216-150, filed 3/4/86.]

Chapter 173-218 WAC
UNDERGROUND INJECTION CONTROL PROGRAM

WAC

173-218-010 Purpose.
173-218-020 Policy enunciated.
173-218-030 Definitions.
173-218-040 Authorization required.
173-218-050 Class I injection wells.
173-218-060 Class II injection wells.
173-218-070 Class III injection wells.
173-218-080 Class IV injection wells.
173-218-090 Class V injection wells.
173-218-100 Permit terms and conditions.
173-218-110 Enforcement.

WAC 173-218-010 Purpose. (1) The purpose of this chapter is to set forth the procedures and practices applicable to the injection of fluids through wells.

(2) Permits issued in accordance with the provisions of this chapter are designed:

(a) To satisfy the intent and requirements of Part C of the Federal Safe Drinking Water Act (SDWA) 42 U.S.C. §300h et seq. as authorized by RCW 43.21A.445 and of the Water Pollution Control Act, chapter 90.48 RCW; and

(b) To preserve and protect ground waters, including underground sources of drinking water, for existing and future beneficial uses.

[Statutory Authority: RCW 43.21A.445. 84-06-023 (Order DE 84-02), § 173-218-010, filed 2/29/84.]

WAC 173-218-020 Policy enunciated. (1) It shall be the policy of the department of ecology in carrying out the purposes of this chapter:

(a) To maintain the highest possible standards to prevent the injection of fluids that may endanger ground waters which are obtainable for beneficial uses or which contain fewer than 10,000 mg/L of total dissolved solids;

(b) To require the use of all known, available, and reasonable methods to prevent and control the discharge of fluids and waste fluids into the waters of the state;

(c) To protect public health and welfare through preservation and protection of the quality of the state's ground waters.

(2) Consistent with this policy:

(a) The disposal of waste fluids from industrial, commercial, or municipal sources into wells will not be authorized by the department, except that existing operations are authorized providing these operations satisfy the standards and requirements of this chapter;

(b) The department will act to prevent the disposal of waste fluids that present a risk to human health, including the potential, chronic effects of lifetime exposure to waste fluids.

[Statutory Authority: RCW 43.21A.445. 84-06-023 (Order DE 84-02), § 173-218-020, filed 2/29/84.]

WAC 173-218-030 Definitions. (1) "Beneficial uses" shall include, among others, uses for domestic water, irrigation, fish, shellfish, game, and other aquatic life, municipal, recreation, industrial water, generation of electric power, and navigation.

(2) "Class I injection well" means a well used to inject industrial, commercial, or municipal waste fluids beneath the lowermost formation containing, within 1/4-mile of the well bore, an USDW.

(3) "Class II injection well" means a well used to inject fluids:

(a) Brought to the surface in connection with conventional oil or natural gas exploration or production and may be commingled with wastewaters from gas plants which are an integral part of production operations, unless those waters are classified as dangerous wastes at the time of injection;

(b) For enhanced recovery of oil or natural gas; or

(c) For storage of hydrocarbons which are liquid at standard temperature and pressure.

(4) "Class III injection well" means a well used for extraction of minerals, including but not limited to the injection of fluids for:

(a) In-situ production of uranium or other metals that have not been conventionally mined;

(b) Mining of sulfur by Frasch process; or

(c) Solution mining of salts or potash.

(5) "Class IV injection well" means a well used to inject dangerous or radioactive waste fluids.

(6) "Class V injection well" means all injection wells not included in Classes I, II, III, or IV.

(7) "Dangerous waste" means any discarded, useless, unwanted, or abandoned nonradioactive substances, including but not limited to certain pesticides or any residues or containers of such substances, which are disposed of in such quantity or concentration as to pose a substantial present or potential hazard to human health, wildlife, or the environment because such wastes or constituents or combinations of such wastes:

(a) Have short-lived, toxic properties that may cause death, injury, or illness or have mutagenic, tertogenic, or carcinogenic properties; or

(b) Are corrosive, explosive, flammable, or may generate pressure through decomposition or other means (Hazardous Waste Disposal Act, chapter 70.105 RCW).

(8) "Department" means department of ecology.

(9) "Fluid" means any material or substance which flows or moves whether in a semisolid, liquid, sludge, gas, or any other form or state.

(10) "Ground waters" means all waters that exist beneath the land surface or beneath the bed of any stream, lake or reservoir, or other body of surface water within the boundaries of this state, whatever may be the geological formation or structure in which such water stands or flows, percolates, or otherwise moves (Regulation of public ground waters, chapter 90.44 RCW).

(11) "Injection well" means a "well" that is used for the subsurface emplacement of fluids.

(12) "New injection well" means an injection well that is proposed subsequent to the effective date of this chapter.

(13) "Person" includes any political subdivision, local, state, or federal government agency, municipality, industry, public or private corporation, partnership, association, firm, individual, or any other entity whatsoever.

(14) "Radioactive waste" means any waste which contains radioactive material in concentrations which exceed those listed in 10 Code of Federal Regulations Part 20, Appendix B, Table II, Column 2.

(15) "SDWA" means Part C of the Federal Safe Drinking Water Act, 42 U.S.C. §300f et seq.

(16) "Underground source of drinking water (USDW)" means ground waters which contain fewer than 10,000 mg/L of total dissolved solids or which are obtainable for beneficial uses.

(17) "Waste fluid" means any discarded, abandoned, unwanted, or unrecovered fluid(s), except the following are not waste fluids for the purposes of this chapter:

(a) Discharges into the ground or ground water of return flow, unaltered except for temperature, from a ground water heat pump used for space heating or cooling: Provided, That such discharges do not have significant potential, either individually or collectively, to affect ground water quality or beneficial uses;

(b) Discharges of stormwater that are not contaminated or potentially contaminated by industrial or commercial sources.

(18) "Well" means a bored, drilled or driven shaft, or dug hole whose depth is greater than the largest surface dimension.

[Statutory Authority: RCW 43.21A.445. 84-06-023 (Order DE 84-02), § 173-218-030, filed 2/29/84.]

WAC 173-218-040 Authorization required. No fluids may be injected through wells except as authorized pursuant to this chapter.

[Statutory Authority: RCW 43.21A.445. 84-06-023 (Order DE 84-02), § 173-218-040, filed 2/29/84.]

WAC 173-218-050 Class I injection wells. (1) New Class I injection wells are prohibited.

(2) All persons operating an existing Class I injection well operation must apply to the department for approval to operate within one year of the effective date of this chapter.

(3) The department will accept, process, and act upon the application in accordance with applicable requirements as contained in 40 Code of Federal Regulations Parts 124 and

144 as published in Federal Register Volume 48, #64 (April 1, 1983) and Part 146 as published in Federal Register Volume 45, #123 (June 24, 1980), Volume 46, #166 (August 27, 1981) and Volume 47, #23 (February 3, 1982).

[Statutory Authority: RCW 43.21A.445. 84-06-023 (Order DE 84-02), § 173-218-050, filed 2/29/84.]

WAC 173-218-060 Class II injection wells. (1) Any person, who proposes to conduct or is conducting a Class II injection well operation, as defined in WAC 173-218-030 (3)(a), must notify the oil and gas conservation committee (OGCC) in accordance with the provisions of general rules, chapter 344-12 WAC.

(2) The department shall perform review, evaluation, and approval in accordance with the provisions of general rules, chapter 344-12 WAC.

(3) The department shall process a Class II injection well application, as defined in WAC 173-218-030 (3)(a), in accordance with applicable requirements as contained in 40 Code of Federal Regulations Parts 124 and 144 as published in Federal Register Volume 48, #64 (April 1, 1983) and Part 146 as published in Federal Register Volume 45, #123 (June 24, 1980), Volume 46, #166 (August 27, 1981) and Volume 47, #23 (February 3, 1982).

(4) At present, there appears to be no reasonable likelihood that approval will be sought for a Class II injection well for either enhanced recovery of oil or natural gas or for storage of liquid hydrocarbons; therefore, Class II injection wells as defined in 173-218-030 (3)(b) and (3)(c) are not authorized. If it appears likely that approval will be sought for either of these types of injection wells, these regulations will be amended to include an appropriate regulatory program.

[Statutory Authority: RCW 43.21A.445. 84-06-023 (Order DE 84-02), § 173-218-060, filed 2/29/84.]

WAC 173-218-070 Class III injection wells. At present, there appears to be no reasonable likelihood that approval will be sought for a Class III injection well; therefore, Class III injection wells are not authorized. If it appears likely that approval will be sought for a Class III injection well, these regulations will be amended to include an appropriate regulatory program.

[Statutory Authority: RCW 43.21A.445. 84-06-023 (Order DE 84-02), § 173-218-070, filed 2/29/84.]

WAC 173-218-080 Class IV injection wells. Class IV injection wells are prohibited regardless of proximity to USDW.

[Statutory Authority: RCW 43.21A.445. 84-06-023 (Order DE 84-02), § 173-218-080, filed 2/29/84.]

WAC 173-218-090 Class V injection wells. (1) All new Class V injection wells that inject industrial, municipal, or commercial waste fluids into or above an USDW are prohibited.

(2) All persons operating an existing Class V injection well, that inject industrial, commercial, or municipal waste fluids into or above an USDW, must apply to the department for approval to operate within one year of the effective date of this regulation. The department will accept, process, and act upon the application in accordance with the procedures and practices of the State waste discharge permit program, chapter 173-216 WAC.

(3) All other Class V injection well owners and operators must notify the department of the location of injection wells within one year of approval of the state underground injection control program by the United States Environmental Protection Agency. The notification shall be on a form as prescribed by the department and will include the information needed to satisfy the requirements of 40 Code of Federal Regulations Part 146.52.

[Statutory Authority: RCW 43.21A.445. 84-06-023 (Order DE 84-02), § 173-218-090, filed 2/29/84.]

WAC 173-218-100 Permit terms and conditions. (1) Any permit issued by the department shall specify conditions necessary to prevent and control injection of fluids into the waters of the state, including the following, whenever applicable:

(a) All known, available, and reasonable methods of prevention, control, and treatment;

(b) Applicable requirements as contained in 40 Code of Federal Regulations Parts 124 and 144 as published in Federal Register Volume 48, #64 (April 1, 1983) and Part 146 as published in Federal Register Volume 45, #123 (June 24, 1980), Volume 46, #166 (August 27, 1981) and Volume 47, #23 (February 3, 1982); and

(c) Any conditions necessary to preserve and protect USDW.

(2) Any injection well that causes or allows the movement of fluid into an USDW that may result in a violation of any primary drinking water standard under 40 Code of Federal Regulations Part 141 or that may otherwise adversely affect the beneficial use of an USDW is prohibited.

[Statutory Authority: RCW 43.21A.445. 84-06-023 (Order DE 84-02), § 173-218-100, filed 2/29/84.]

WAC 173-218-110 Enforcement. (1) For violations of this chapter, the department shall have the remedies available in the Water Pollution Control Act, chapter 90.48 RCW, and all other applicable statutes.

(2) All injection well operations not operated in accordance with the provisions of this chapter, that cause or tend to cause entry of fluids into the waters of the state as a result of a violation of these provisions, constitutes pollution of the waters of the state in violation of RCW 90.48.080.

[Statutory Authority: RCW 43.21A.445. 84-06-023 (Order DE 84-02), § 173-218-110, filed 2/29/84.]

Chapter 173-220 WAC

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMIT PROGRAM

WAC

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173-220-135	Signing of permits.
173-220-140	Schedules of compliance.
173-220-150	Other terms and conditions.
173-220-160	Transmission of issued permit to regional administrator.
173-220-170	Relationship with non-NPDES permits.
173-220-180	Duration and replacement of existing permit.
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173-220-200	Transfer of permit.
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173-220-225	Appeals.
173-220-230	Enforcement.
173-220-240	Relationship of department of ecology to permits issued by the energy facility site evaluation council.

DISPOSITION OF SECTIONS FORMERLY CODIFIED IN THIS CHAPTER

173-220-045	General permits. [Statutory Authority: RCW 90.54.020 and chapter 90.48 RCW. 88-22-059 (Order 88-9), § 173-220-045, filed 11/1/88. Statutory Authority: Chapter 43.21A RCW. 86-06-040 (Order 86-03), § 173-220-045, filed 3/4/86. Statutory Authority: RCW 90.48.035 and 90.48.260. 82-24-078 (Order DE 82-39), § 173-220-045, filed 12/1/82.] Repealed by 93-10-099 (Order 92-55), filed 5/5/93, effective 5/19/93. Statutory Authority: Chapter 90.48 RCW.
173-220-220	Control of disposal of pollutants into wells. [Statutory Authority: Chapter 90.48 RCW. 84-11-024 (Order DE 84-19), § 173-220-220, filed 5/11/84. Statutory Authority: RCW 90.48.035 and 90.48.260. 82-24-078 (Order DE 82-39), § 173-220-220, filed 12/1/82; Order DE 74-1, § 173-220-220, filed 2/15/74.] Repealed by 88-22-059 (Order 88-9), filed 11/1/88. Statutory Authority: RCW 90.54.020 and chapter 90.48 RCW.

WAC 173-220-010 Purpose. The purpose of this chapter is to establish a state individual permit program, applicable to the discharge of pollutants and other wastes and materials to the surface waters of the state, operating under state law as a part of the National Pollutant Discharge Elimination System (NPDES) created by section 402 of the Federal Water Pollution Control Act (FWPCA). Permits issued under this chapter are designed to satisfy the requirements for discharge permits under both section 402(b) of the FWPCA and chapter 90.48 RCW.

[Statutory Authority: Chapter 90.48 RCW. 93-10-099 (Order 92-55), § 173-220-010, filed 5/5/93, effective 5/19/93. Statutory Authority: RCW 90.54.020 and chapter 90.48 RCW. 88-22-059 (Order 88-9), § 173-220-010, filed 11/1/88; Order DE 74-1, § 173-220-010, filed 2/15/74.]

WAC 173-220-020 Permit required. No pollutants shall be discharged to any surface water of the state from a point source, except as authorized by an individual permit issued pursuant to this chapter or as authorized by a general permit issued pursuant to chapter 173-226 WAC.

[Statutory Authority: Chapter 90.48 RCW. 93-10-099 (Order 92-55), § 173-220-020, filed 5/5/93, effective 5/19/93. Statutory Authority: RCW 90.54.020 and chapter 90.48 RCW. 88-22-059 (Order 88-9), § 173-220-020, filed 11/1/88. Statutory Authority: RCW 90.48.035 and 90.48.260. 82-24-078 (Order DE 82-39), § 173-220-020, filed 12/1/82; Order DE 74-1, § 173-220-020, filed 2/15/74.]

WAC 173-220-030 Definitions. For purposes of this chapter, the following definitions shall be applicable:

(1) "Administrator" means the administrator of the United States Environmental Protection Agency.

(2) "Combined waste treatment facility" means any publicly owned waste treatment facility in which the maximum monthly average influent from any one industrial category, or categories producing similar wastes, constitutes over eighty-five percent of the design load for biochemical oxygen demand or suspended solids. Each single industrial category must contribute a minimum of ten percent of the applicable load.

(3) "Department" means department of ecology.

(4) "Director" means the director of the department of ecology or his/her authorized representative.

(5) "Discharge of pollutant" and the term "discharge of pollutants" each means (a) any addition of any pollutant or combination of pollutants to surface waters of the state from any point source, (b) any addition of any pollutant or combination of pollutants to the waters of the contiguous zone or the ocean from any point source, other than a vessel or other floating craft which is being used as a means of transportation.

(6) "Discharger" means owner or operator of any facility or activity subject to regulation under the NPDES program.

(7) "Domestic wastewater" means water carrying human wastes, including kitchen, bath, and laundry wastes from residences, buildings, industrial establishments or other places, together with such groundwater infiltration or surface waters as may be present.

(8) "Domestic wastewater facility" means all structures, equipment, or processes required to collect, carry away, treat, reclaim or dispose of domestic wastewater together with such industrial waste as may be present. This term applies only to facilities discharging to surface water.

(9) "Effluent limitation" means any restriction established by the state or administrator on quantities, rates, and concentrations of chemical, physical, biological, and other constituents which are discharged from point sources into surface waters of the state.

(10) "FWPCA" means the Federal Water Pollution Control Act as amended, 33 U.S.C. 1251 et seq.

(11) "General permit" means a permit which covers multiple dischargers of a point source category within a designated geographical area, in lieu of individual permits being issued to each discharger.

(12) "Individual permit" means a permit for a single point source or a single facility.

(13) "Major discharger" means any discharger classified as such by the administrator in conjunction with the director and published in the annual state-EPA agreement.

(14) "Minor discharger" means any discharger not designated as major or covered under a general permit.

(15) "NPDES" means the National Pollutant Discharge Elimination System.

(16) "Permit" means an authorization, license, or equivalent control document issued by the director to implement this chapter.

(17) "Person" includes any political subdivision, local, state, or federal government agency, municipality, industry, public or private corporation, partnership, association, firm, individual, or any other entity whatsoever.

(18) "Point source" means any discernible, confined and discrete conveyance, including but not limited to any pipe, ditch, channel, tunnel, conduit, well, discrete fissure, container, rolling stock, concentrated animal feeding operation, or vessel or other floating craft, from which pollutants are or may be discharged. This term does not include return flows from irrigated agriculture.

(19) "Pollutant" means dredged spoil, solid waste, incinerator residue, sewage, garbage, sewage sludge, munitions, chemical wastes, biological materials, radioactive materials, heat, wrecked or discarded equipment, rock, sand, cellar dirt and industrial, municipal and agricultural waste discharged into water. This term does not include sewage from vessels within the meaning of section 312 of the FWPCA nor does it include dredged or fill material discharged in accordance with a permit issued under section 404 of the FWPCA.

(20) "Regional administrator" means the regional administrator of Region X of the Environmental Protection Agency (EPA) or his/her authorized representative.

(21) "Surface waters of the state" means all waters defined as "waters of the United States" in 40 CFR 122.2 that are within the boundaries of the state of Washington. This includes lakes, rivers, ponds, streams, inland waters, wetlands, ocean, bays, estuaries, sounds, and inlets.

(22) "Water quality standards" means the state of Washington's water quality standards for surface waters of the state, which are codified in chapter 173-201 WAC.

[Statutory Authority: Chapter 90.48 RCW. 93-10-099 (Order 92-55), § 173-220-030, filed 5/5/93, effective 5/19/93. Statutory Authority: RCW 90.54.020 and chapter 90.48 RCW. 88-22-059 (Order 88-9), § 173-220-030, filed 11/1/88. Statutory Authority: Chapter 90.48 RCW. 84-11-024 (Order DE 84-19), § 173-220-030, filed 5/11/84. Statutory Authority: RCW 90.48.035 and 90.48.260. 82-24-078 (Order DE 82-39), § 173-220-030, filed 12/1/82; Order DE 74-1, § 173-220-030, filed 2/15/74.]

WAC 173-220-040 Application for permit. (1) Any person presently discharging pollutants to surface waters of the state must file an application with the department on a form prescribed by the department. For the purpose of satisfying the requirements of this subsection, any completed application filed with the Environmental Protection Agency prior to the approval by the administrator under section 402(b) of the FWPCA of this state permit program shall constitute a filing with the department.

(2) Any person proposing to commence a discharge of pollutants to surface waters of the state must file an application with the department on a form prescribed by the department, (a) no less than one hundred eighty days in advance of the date on which it is desired to commence the discharge of pollutants, or (b) in sufficient time prior to commencement of the discharge of pollutants to insure compliance with the requirements of section 306 of the FWPCA and any other applicable water quality standards or effluent standards and limitations.

(3) The applicant must pay any applicable fees required pursuant to RCW 90.48.610.

(4) The requirement for permit application will be satisfied if the discharger files:

(a) A complete application form which is appropriate for the type, category, or size of discharge per 40 CFR 122.21; or

(b) A complete request for coverage under a general permit; and

(c) Any additional information required by the department pertaining to pollutant discharge.

(5) The application form shall bear a certification of correctness to be signed:

(a) In the case of corporations, by a responsible corporate officer.

(b) In the case of a partnership, by a general partner.

(c) In the case of sole proprietorship, by the proprietor.

(d) In the case of a municipal, state, or other public facility, by either a principal executive officer or ranking elected official.

(6) Applications for permits for domestic wastewater facilities that are either owned or operated by, or under contract to, a public entity shall be submitted by the public entity.

(7) No discharge of pollutants into the surface waters of the state is authorized until such time as a permit has been issued consistent with the terms and conditions of this chapter.

[Statutory Authority: Chapter 90.48 RCW. 93-10-099 (Order 92-55), § 173-220-040, filed 5/5/93, effective 5/19/93. Statutory Authority: RCW 90.54.020 and chapter 90.48 RCW. 88-22-059 (Order 88-9), § 173-220-040, filed 11/1/88. Statutory Authority: Chapter 43.21A RCW. 86-06-040 (Order 86-03), § 173-220-040, filed 3/4/86. Statutory Authority: RCW 90.48.035 and 90.48.260. 82-24-078 (Order DE 82-39), § 173-220-040, filed 12/1/82; Order DE 74-1, § 173-220-040, filed 2/15/74.]

WAC 173-220-050 Public notice. (1) Public notice of every draft permit determination regarding an individual permit shall be circulated in a manner designed to inform interested and potentially affected persons of the proposed discharge and of the proposed determination to issue or deny a permit for the proposed discharge, as follows:

(a) Notice shall be circulated within the geographical area of the proposed discharge; such circulation may include any or all of the following, as directed by the department:

(i) Posting by the applicant for a period of thirty days in the post office, public library, and public places of the municipality nearest the premises of the applicant in which the effluent source is located;

(ii) Posting by the applicant for a period of thirty days near the entrance of the applicant's premises and nearby places;

(iii) Publishing by the applicant, at his own cost within such time as the director shall prescribe, through a notice form provided by the department, in major local newspapers of general circulation serving the area in which the discharge occurs: Provided, That if an applicant fails to publish notice within thirty days of the time prescribed by the director, the department may publish the notice and bill the applicant for the cost of publication;

(iv) Publishing by the applicant of paid advertisements;

(v) Publishing by the department of news releases or newsletter articles.

(b) Notice shall be mailed to any person upon request; and

(c) The department shall add the name of any person upon request to a mailing list to receive copies of notices within the state or within a certain geographical area.

(2) The department shall provide a period of not less than thirty days following the date of the public notice during which time interested persons may submit their written views on a draft permit determination. All written comments submitted during the thirty-day comment period shall be retained by the department and considered in the formulation of its final determination with respect to the application. The period for comment may be extended at the discretion of the department.

(3) The department shall prepare the contents of the public notice, which shall, at a minimum, summarize the following:

(a) Name, address, phone number of agency issuing the public notice;

(b) Name and address of each applicant, and if different, of the facility or activity to be regulated;

(c) Each applicant's activities or operations which result in a discharge (e.g., municipal waste treatment, steel manufacturing, drainage from mining activities);

(d) Name of waterway to which each discharge is made and the location of each discharge on the waterway, indicating whether such discharge is a new or an existing discharge;

(e) The tentative determination to issue or deny a permit for the discharge;

(f) The procedures for the formulation of final determinations, including the thirty-day comment period required by subsection (2) of this section and any other means by which interested persons may comment upon those determinations; and

(g) Address and phone number of state premises at which interested persons may obtain further information.

(4) The department shall provide copies of permit applications, draft permit determinations, and final permits.

(5) The department shall notify the applicant and persons who have submitted written comments or requested notice of the final permit decision. This notification shall include response to comments received and reference to the procedures for contesting the decision.

[Statutory Authority: Chapter 90.48 RCW. 93-10-099 (Order 92-55), § 173-220-050, filed 5/5/93, effective 5/19/93. Statutory Authority: RCW 90.54.020 and chapter 90.48 RCW. 88-22-059 (Order 88-9), § 173-220-050, filed 11/1/88. Statutory Authority: RCW 90.48.035 and 90.48.260. 82-24-078 (Order DE 82-39), § 173-220-050, filed 12/1/82; Order DE 76-20, § 173-220-050, filed 5/19/76; Order 74-7, § 173-220-050, filed 5/1/74; Order DE 74-1, § 173-220-050, filed 2/15/74.]

WAC 173-220-060 Fact sheets. (1) The department shall prepare a fact sheet for every draft permit determination. Such fact sheets shall, at a minimum, summarize the following:

(a) The type of facility or activity which is the subject of the application;

(b) The location of the discharge in the form of a sketch or detailed description;

(c) The type and quantity of the discharge, including at least the following:

(i) The rate or frequency of the proposed discharge;

(ii) For thermal discharges, the average summer and winter temperatures; and

(iii) The average discharge in pounds per day, or other appropriate units, of any pollutants which are present in significant quantities or which are subject to limitations or prohibition under RCW 90.48.010, 90.52.040, 90.54.020 and sections 301, 302, 306, or 307 of the FWPCA and regulations published thereunder;

(d) The conditions in the proposed permit;

(e) The legal and technical grounds for the draft permit determination, including an explanation of how conditions meet both the technology-based and water quality-based requirements of the FWPCA and chapters 90.48, 90.52, and 90.54 RCW;

(f) The effluent standards and limitations applied to the proposed discharge;

(g) The applicable water quality standards, including identification of the uses for which receiving waters have been classified;

(h) How the draft permit addresses use or disposal of residual solids generated by wastewater treatment; and

(i) The procedures for the formulation of final determinations (in more detailed form than that given in the public notice) including:

(i) The thirty-day comment period required by WAC 173-220-050(2);

(ii) Procedures for requesting a public hearing and the nature thereof; and

(iii) Any other procedures by which the public may participate in the formulation of the final determinations.

(2) The department shall send a fact sheet to the applicant and, upon request, to any other person.

(3) The department shall add the name of any person upon request to a mailing list to receive copies of fact sheets.

[Statutory Authority: Chapter 90.48 RCW. 93-10-099 (Order 92-55), § 173-220-060, filed 5/5/93, effective 5/19/93. Statutory Authority: RCW 90.54.020 and chapter 90.48 RCW. 88-22-059 (Order 88-9), § 173-220-060, filed 11/1/88. Statutory Authority: Chapter 43.21A RCW. 86-06-040 (Order 86-03), § 173-220-060, filed 3/4/86. Statutory Authority: RCW 90.48.035 and 90.48.260. 82-24-078 (Order DE 82-39), § 173-220-060, filed 12/1/82; Order DE 74-1, § 173-220-060, filed 2/15/74.]

WAC 173-220-070 Notice to other government agencies. The department shall notify other appropriate government agencies of each draft permit determination and shall provide such agencies an opportunity to submit their written views and recommendations. Such notification shall include the following:

(1) Unless the regional administrator has agreed to waive review, transmission of an application, fact sheet, and draft permit to the regional administrator for comment or objection within thirty days, or a longer period if requested up to a maximum of ninety days.

(2) At the time of issuance of public notice pursuant to WAC 173-220-050, transmission of the public notice to any other states whose waters may be affected by the issuance of a permit. Each affected state shall be afforded an opportunity to submit written recommendations to the department and to the regional administrator which the department may incorporate into the permit if issued. Should the department fail to incorporate any written recommendations thus received, it shall provide to the affected state or states (and to the regional administrator) a written explanation of its reasons for failing to accept any of the written recommendations.

(3) Unless waived by the respective agency, the public notice shall be sent to the appropriate district engineer of the Army Corps of Engineers, the United States Fish and Wildlife Service, the National Marine Fisheries Service, the state departments of fisheries, natural resources, wildlife, and social and health services, the archaeology and historic preservation office, the agency responsible for the preparation of an approved plan pursuant to section 208(b) of the FWPCA, applicable Indian tribes and any other applicable government agencies.

(4) A copy of any written agreement between the department and an agency identified in subsection (3) of this section which waives the receipt of public notices shall be forwarded to the regional administrator and shall be made available to the public for inspection and copying.

(5) Copies of public notices shall be mailed to any other federal, state, or local agency, Indian tribe or any affected country, upon request. Such agencies shall have an opportunity to respond, comment, or request a public hearing pursuant to WAC 173-220-090.

[Statutory Authority: Chapter 90.48 RCW. 93-10-099 (Order 92-55), § 173-220-070, filed 5/5/93, effective 5/19/93. Statutory Authority: RCW 90.54.020 and chapter 90.48 RCW. 88-22-059 (Order 88-9), § 173-220-070, filed 11/1/88. Statutory Authority: RCW 90.48.035 and 90.48.260. 82-24-078 (Order DE 82-39), § 173-220-070, filed 12/1/82; Order DE 74-1, § 173-220-070, filed 2/15/74.]

WAC 173-220-080 Public access to information. (1) In accordance with chapter 42.17 RCW, the department shall make records relating to NPDES permits available to the public for inspection and copying.

(2) The department shall protect any information (other than information on the effluent) contained in its NPDES permit records as confidential upon a showing by any person that such information, if made public, would divulge methods or processes entitled to protection as trade secrets of such person.

(3) Any information accorded confidential status, whether or not contained in an application form, shall be disclosed, upon request, to the regional administrator.

(4) The department shall provide facilities for the inspection of information relating to NPDES permits and shall insure that employees honor requests for such inspection promptly without undue requirements or restrictions. The department shall either (a) insure that a machine or device for the copying of papers and documents is available for a reasonable fee, or (b) otherwise provide for or coordinate with copying facilities or services such that requests for copies of nonconfidential documents may be honored promptly.

[Statutory Authority: RCW 90.54.020 and chapter 90.48 RCW. 88-22-059 (Order 88-9), § 173-220-080, filed 11/1/88. Statutory Authority: RCW 90.48.035 and 90.48.260. 82-24-078 (Order DE 82-39), § 173-220-080, filed 12/1/82; Order DE 74-1, § 173-220-080, filed 2/15/74.]

WAC 173-220-090 Public hearings. The applicant, any affected state, any affected interstate agency, any affected country, the regional administrator, or any interested agency or person may request a public hearing with respect to a draft permit determination. Any such request for a public hearing shall be filed within the thirty-day period prescribed in WAC 173-220-050(2) and shall indicate the interest of the party filing such request and the reasons why a hearing is warranted. The department shall hold a hearing if it determines there is a significant public interest. Instances of doubt will be resolved in favor of holding the hearing. Any hearing brought pursuant to this subsection shall be held at a time and place deemed appropriate by the department.

[Statutory Authority: Chapter 90.48 RCW. 93-10-099 (Order 92-55), § 173-220-090, filed 5/5/93, effective 5/19/93. Statutory Authority: RCW 90.54.020 and chapter 90.48 RCW. 88-22-059 (Order 88-9), § 173-220-090, filed 11/1/88. Statutory Authority: RCW 90.48.010, 90.48.035, and 90.58.260. 83-10-063 (Order DE 83-14), § 173-220-090, filed 5/4/83; Order DE 74-1, § 173-220-090, filed 2/15/74.]

WAC 173-220-100 Public notice of public hearings. (1) The department shall circulate public notice of any hearing held pursuant to WAC 173-220-090 at least as widely as was the notice pursuant to WAC 173-220-050. Procedures for the circulation of public notice for hearings held under WAC 173-220-090 shall include at least the following:

(a) Notice shall be published in at least one major local newspaper of general circulation within the geographical area of the discharge;

(b) Notice shall be sent to all persons and government agencies who received a copy of the notice pursuant to WAC 173-220-050 or the fact sheet;

(c) Notice shall be mailed to any person upon request; and

(d) Notice shall be effected pursuant to (a) and (c) of this subsection at least thirty days in advance of the hearing.

(2) The contents of public notice of any hearing held in pursuant to WAC 173-220-090 shall include at least the following:

(a) Name, address, and phone number of agency holding the public hearing;

(b) A reference to the public notice issued pursuant to WAC 173-220-050, including identification number and date of issuance;

(c) The time and location for the hearing;

(d) The purpose of the hearing;

(e) Address and phone number of premises at which interested persons may obtain information;

(f) The nature of the hearing;

(g) The issues raised by the persons requesting the hearing, and any other appropriate issues which may be of interest to the public;

(h) The name and address of each applicant whose proposed discharge will be considered at the hearing;

(i) The name of waterway to which each discharge is made and the location of each discharge on the waterway.

[Statutory Authority: Chapter 90.48 RCW. 93-10-099 (Order 92-55), § 173-220-100, filed 5/5/93, effective 5/19/93. Statutory Authority: RCW 90.54.020 and chapter 90.48 RCW. 88-22-059 (Order 88-9), § 173-220-100, filed 11/1/88. Statutory Authority: RCW 90.48.035 and 90.48.260. 82-24-078 (Order DE 82-39), § 173-220-100, filed 12/1/82; Order DE 74-1, § 173-220-100, filed 2/15/74.]

WAC 173-220-110 Permit preparation. The department will prepare tentative staff determinations with respect to a permit application in advance of public notice of the proposed issuance or denial of a permit. Such tentative determinations shall include at least the following:

(1) A proposed determination to issue or deny a permit for the discharge described in the application; and

(2) If the determination is to issue the permit, the following shall be included in a draft permit:

(a) Proposed effluent limitations for those pollutants proposed to be limited;

(b) A proposed schedule of compliance, including interim dates and requirements, for meeting the proposed effluent limitations; and

(c) A brief description of any other proposed special conditions which will have a significant impact upon the discharge described in the application.

[Statutory Authority: Chapter 90.48 RCW. 93-10-099 (Order 92-55), § 173-220-110, filed 5/5/93, effective 5/19/93. Statutory Authority: RCW 90.48.035 and 90.48.260. 82-24-078 (Order DE 82-39), § 173-220-110, filed 12/1/82; Order DE 74-1, § 173-220-110, filed 2/15/74.]

WAC 173-220-120 Prohibited discharges. No permit issued by the department shall authorize any person to:

(1) Discharge any radiological, chemical or biological warfare agent or high-level radioactive waste into surface waters of the state;

(2) Discharge any pollutants which the secretary of the army acting through the chief, corps of engineers, finds would substantially impair anchorage and navigation;

(3) Discharge any pollutant to which the regional administrator, not having waived his/her right to object pursuant to section 402(e) of the FWPCA, has objected in writing pursuant to section 402(d) of the FWPCA;

(4) Discharge from a point source any pollutant which is in conflict with the plan or amendment thereto approved pursuant to section 208(b) of the FWPCA;

(5) Discharge any pollutant subject to a toxic pollutant discharge prohibition under section 307 of FWPCA.

[Statutory Authority: RCW 90.54.020 and chapter 90.48 RCW. 88-22-059 (Order 88-9), § 173-220-120, filed 11/1/88. Statutory Authority: RCW 90.48.035 and 90.48.260. 82-24-078 (Order DE 82-39), § 173-220-120, filed 12/1/82; Order DE 74-1, § 173-220-120, filed 2/15/74.]

WAC 173-220-130 Effluent limitations, water quality standards and other requirements for permits. (1) Any permit issued by the department shall apply and insure compliance with all of the following, whenever applicable:

(a) All known, available, and reasonable methods of treatment required under RCW 90.52.040, 90.54.020 (3)(b), and 90.48.520; including effluent limitations established under sections 301, 302, 306, and 307 of the FWPCA. The effluent limitations shall not be less stringent than those based upon the treatment facility design efficiency contained in approved engineering plans and reports or approved revisions thereto. The effluent limitations shall reflect any seasonal variation in industrial loading. Modifications to technology-based effluent limitations for specific discharge categories are as follows:

(i) For combined waste treatment facilities, the effluent limitations for biochemical oxygen demand or suspended solids may be adjusted upwards to a maximum allowed by applying effluent limitations pursuant to sections 301 (b)(1)(B) of the FWPCA to the domestic portion of the influent and effluent limitations pursuant to sections 301 (b)(1)(A)(i), 301 (b)(2)(A), and 301 (b)(2)(E) of the FWPCA or standards of performance pursuant to section 306 of the FWPCA to the industrial portion of the influent: Provided, That the following additional condition is met:

Fecal coliform levels shall not exceed a monthly geometric mean of 200 organisms per 100 ml with a maximum weekly geometric mean of 400 organisms per 100 ml;

(ii) For municipal water treatment plants located on the Chehalis, Columbia, Cowlitz, Lewis, or Skagit river, the effluent limitations shall be adjusted, in accordance with RCW 90.54.020 (3)(b), to reflect credit for substances removed from the plant intake water if:

(A) The municipality demonstrates that the intake water is drawn from the same body of water into which the discharge is made; and

(B) The municipality demonstrates that no violation of receiving water quality standards or appreciable environmental degradation will result.

(b) Any more stringent limitation, including those necessary to:

(i) Meet water quality standards, treatment standards or schedules of compliance established pursuant to any state law or regulation under authority preserved to the state by section 510 of the FWPCA; or

(ii) Meet any federal law or regulation other than the FWPCA or regulations thereunder; or

(iii) Implement any applicable water quality standards; such limitations to include any legally applicable requirements necessary to implement total maximum daily loads established pursuant to section 303(d) and incorporated in the continuing planning process approved under section 303(e) of the FWPCA and any regulations and guidelines issued pursuant thereto;

(iv) Prevent or control pollutant discharges from plant site runoff, spillage or leaks, sludge or waste disposal, or materials handling or storage; and

(v) Meet the permit by rule provisions of the state dangerous waste regulation, WAC 173-303-802 (4) or (5).

(c) Any more stringent legal applicable requirements necessary to comply with a plan approved pursuant to section 208(b) of the FWPCA; and

(d) Prior to promulgation by the administrator of applicable effluent standards and limitations pursuant to sections 301, 302, 306, and 307 of the FWPCA, such conditions as the department determines are necessary to carry out the provisions of the FWPCA.

(2) In any case where an issued permit applies the effluent standards and limitations described in subsection (1)(a) of this section, the department shall make a finding that any discharge authorized by the permit will not violate applicable water quality standards.

(3) In the application of effluent standards and limitations, water quality standards and other legally applicable requirements pursuant to subsections (1) and (2) of this section, each issued permit shall specify:

(a) For industrial wastewater facilities, average monthly and maximum daily quantitative mass and/or concentration limitations, or other such appropriate limitations for the level of pollutants and the authorized discharge;

(b) For domestic wastewater facilities, average weekly and monthly quantitative concentration and mass limitations, or other such appropriate limitations for the level of pollutants and the authorized discharge; and

(c) If a dilution zone is authorized within which water quality standards are modified, the dimensions of such dilution zone.

[Statutory Authority: RCW 90.54.020 and chapter 90.48 RCW. 88-22-059 (Order 88-9), § 173-220-130, filed 11/1/88. Statutory Authority: RCW 90.48.035 and 90.48.260. 82-24-078 (Order DE 82-39), § 173-220-130, filed 12/1/82; Order DE 74-1, § 173-220-130, filed 2/15/74.]

WAC 173-220-135 Signing of permits. Permits authorized for issuance under chapter 173-220 WAC may be signed by the director or any person designated in WAC 173-06-030.

[Order DE 74-1, § 173-220-135, filed 2/15/74.]

WAC 173-220-140 Schedules of compliance. (1) The department shall establish schedules and permit conditions as follows to achieve compliance with applicable effluent standards and limitations, water quality standards, and other legally applicable requirements:

(a) With respect to any discharge which is found not to be in compliance with applicable effluent standards and limitations, applicable water quality standards, or other legally applicable requirements listed in WAC 173-220-130, the permittee shall be required to take specific steps to achieve compliance with the following:

Any legally applicable schedule of compliance contained in:

(i) Section 301 of FWPCA;

(ii) Applicable effluent standards and limitations;

(iii) Water quality standards; and

(iv) Applicable requirements listed in WAC 173-220-130, 173-220-150, and 173-220-210;

(b) Schedules of compliance, shall set forth the shortest, reasonable period of time, to achieve the specified requirements, such period to be consistent with the guidelines and requirements of the FWPCA.

(2) In any case where the period of time for compliance specified in subsection (1)(a) of this section exceeds one year, a schedule of compliance shall be specified in the permit which will set forth interim requirements and the dates for their achievement; however, in no event shall more than one year elapse between interim dates. If the time necessary for completion of the interim requirement (such as construction of a treatment facility) is more than one year and is not readily divided into stages of completion, interim dates shall be specified for the submission of reports of progress toward completion of the interim requirement.

(3) Either before or up to fourteen days following each interim date and the final date of compliance, the permittee shall provide the department with written notice of the permittee's compliance or noncompliance with the interim or final requirement.

(4) On the last day of the months of February, May, August, and November, the department shall transmit to the regional administrator a list of all instances in the previous ninety days of failure or refusal of a major permittee to comply with an interim or final requirement. Such list shall be available to the public for inspection and copying and shall contain at least the following information on each instance of noncompliance:

(a) Name and address of each noncomplying permittee;

(b) A short description of each instance of noncompliance (e.g., failure to submit preliminary plans, delay in commencement of construction of treatment facility, failure to notify department of compliance with an interim requirement, etc.)

(c) A short description of any actions or proposed actions by the permittee or the department to comply or enforce compliance with the interim or final requirement; and

(d) Any details which explain or mitigate an instance of noncompliance with an interim or final requirement.

(5) If a permittee fails or refuses to comply with an interim or final requirement in a permit, such noncompliance shall constitute a violation of the permit for which the department may modify or revoke the permit or take direct enforcement action.

[Statutory Authority: RCW 90.54.020 and chapter 90.48 RCW. 88-22-059 (Order 88-9), § 173-220-140, filed 11/1/88. Statutory Authority: RCW 90.48.035 and 90.48.260. 82-24-078 (Order DE 82-39), § 173-220-140, filed 12/1/82; Order DE 74-1, § 173-220-140, filed 2/15/74.]

WAC 173-220-150 Other terms and conditions. (1) In addition to the requirements of WAC 173-220-130 and 173-220-140, each issued permit shall require that:

(a) All discharges authorized by the permit shall be consistent with the terms and conditions of the permit;

(b) Any facility expansions, production increases or process modifications which would result in new or increased discharges of pollutants causing effluent limitations in the permit to be exceeded must be reported to the department by submission of a new application or supplement thereto; or, if such discharge does not violate effluent limitations specified in the permit, by submission to the department of notice of such new or increased discharges of pollutants;

(c) Any discharge of any pollutant more frequent than or at a level in excess of that identified and authorized by the permit shall constitute a violation of the terms and conditions of the permit;

(d) The permit may be modified or revoked in whole or in part during its terms for cause including, but not limited to, the following:

(i) Violation of any term or condition of the permit;

(ii) Obtaining a permit by misrepresentation or failure to disclose fully all relevant facts;

(iii) A change in any condition that requires either a temporary or permanent reduction or elimination of the permitted discharge;

(iv) A determination that the permitted activity endangers human health or the environment, or contributes to water quality standards violations;

(v) Incorporation of an approved local pretreatment program into a municipality's permit;

(vi) Establishment of a toxic effluent standard or prohibition (including any schedule of compliance specified in such effluent standard or prohibition) under section 307(a) of

the FWPCA for a toxic pollutant which is more stringent than any limitation upon such pollutant in the permit;

(vii) Failure or refusal of the permittee to allow entry as required in RCW 90.48.090; and

(viii) Nonpayment of permit fees assessed pursuant to RCW 90.48.610.

(e) The permittee shall allow the department or its authorized representative upon the presentation of credentials and at reasonable times:

(i) To enter upon permittee's premises in which an effluent source is located or in which any records are required to be kept under terms and conditions of the permit, subject to any access restrictions due to the nature of the project;

(ii) To have access to, and copy at reasonable cost, any records required to be kept under terms and conditions of the permit;

(iii) To inspect any monitoring equipment or method required in the permit; and

(iv) To sample any discharge of pollutants.

(f) If the permit is for a discharge from a publicly owned treatment works, the permittee shall provide notice to the department of the following:

(i) Any new introduction of pollutants into such treatment works from a source which would be a new source as defined in section 306 of the FWPCA if such source were discharging pollutants;

(ii) Except as to such categories and classes of point sources or discharges specified by the department, any new introduction of pollutants into such treatment works from a source which would be subject to section 301 of the FWPCA if such source were discharging pollutants;

(iii) Any substantial change in volume or character of pollutants being introduced into such treatment works by a source existing at the time of issuance of the permit.

Such notice shall include information on:

(A) The quality and quantity of effluent to be introduced into such treatment works; and

(B) Any anticipated impact of such change in the quantity or quality of effluent to be discharged from such publicly owned treatment works.

(g) The permittee shall at all times properly operate and maintain any facilities or systems of control installed by the permittee to achieve compliance with the terms and conditions of the permit. Where design criteria have been established, the permittee shall not allow flows or waste loadings to exceed approved design criteria, or approved revisions thereto.

(2) Every permit shall be conditioned to insure that any industrial user of any publicly owned treatment works will comply with sections 204(b), 307, and 308 of the FWPCA.

(3) When deemed necessary by the department, any publicly owned treatment works shall be required to develop a full or partial local pretreatment program as specified in 40 CFR Part 403. Permit conditions for a municipality which has received full local pretreatment program approval shall include:

(a) Granting of authority to issue permits under chapter 173-208 WAC;

(b) A requirement to develop, adopt, and enforce a program that is at least as stringent as the department's program under chapter 173-216 WAC; and

(c) A requirement to report to the department at a specified frequency on the status of its implementation.

(4) Permits for domestic wastewater facilities shall be issued only to a public entity, except in the following circumstances:

(a) Facilities existing or approved for construction with private operation on or before the effective date of this chapter, until such time as the facility is expanded; or

(b) Facilities that serve a single nonresidential, industrial, or commercial establishment. Commercial/industrial complexes serving multiple owners or tenants and multiple residential dwelling facilities such as mobile home parks, apartments, and condominiums are not considered single commercial establishments for the purpose of the preceding sentence.

(5) For facilities that are owned by nonpublic entities and under contract to a public entity, the permit shall be issued to the public entity.

[Statutory Authority: RCW 90.54.020 and chapter 90.48 RCW. 88-22-059 (Order 88-9), § 173-220-150, filed 11/1/88. Statutory Authority: Chapter 43.21A RCW. 88-12-035 (Order 88-8), § 173-220-150, filed 5/26/88, effective 7/1/88; 86-06-040 (Order 86-03), § 173-220-150, filed 3/4/86. Statutory Authority: Chapter 90.48 RCW. 84-11-024 (Order DE 84-19), § 173-220-150, filed 5/11/84. Statutory Authority: RCW 90.48.035 and 90.48.260. 82-24-078 (Order DE 82-39), § 173-220-150, filed 12/1/82; Order DE 74-1, § 173-220-150, filed 2/15/74.]

WAC 173-220-160 Transmission of issued permit to regional administrator. Immediately following issuance, the department shall transmit a copy of every issued permit along with any and all terms, conditions, requirements, or documents which are a part of such permit or which affect the authorization by the permit of the discharge of pollutants to the regional administrator.

[Statutory Authority: RCW 90.54.020 and chapter 90.48 RCW. 88-22-059 (Order 88-9), § 173-220-160, filed 11/1/88. Statutory Authority: RCW 90.48.035 and 90.48.260. 82-24-078 (Order DE 82-39), § 173-220-160, filed 12/1/82; Order DE 74-1, § 173-220-160, filed 2/15/74.]

WAC 173-220-170 Relationship with non-NPDES permits. Discharges of pollutants or other wastes that require permits from the department under RCW 90.48.160, which are not satisfied through permits issued under this chapter, shall be subject to the permit requirements of RCW 90.48.160, et seq. Except where permits under RCW 90.48.160 are issued by a municipal corporation pursuant to chapter 173-208 WAC, permit requirements under this chapter and permit requirements under RCW 90.48.160 shall be contained in a single permit document.

[Statutory Authority: RCW 90.48.035 and 90.48.260. 82-24-078 (Order DE 82-39), § 173-220-170, filed 12/1/82; Order DE 74-1, § 173-220-170, filed 2/15/74.]

WAC 173-220-180 Duration and replacement of existing permit. (1) Permits shall be issued for fixed terms not exceeding five years.

(2) Any permittee shall make application for replacement to an existing permit or continuation of a discharge

beyond the expiration date of his/her permit by filing with the department an application for replacement of the permit at least one hundred eighty days prior to its expiration.

(3) The scope and manner of any review of an application for replacement of a permit by the department shall be sufficiently detailed as to insure the following:

(a) That the permittee is in substantial compliance with all of the terms, conditions, requirements and schedules of compliance of the expired permit;

(b) That the department has up-to-date information on the permittee's production levels; permittee's waste treatment practices; nature, content and frequencies of permittee's discharge; either pursuant to the submission of new forms and applications or pursuant to monitoring records and reports resubmitted to the department by the permittee; and

(c) That the discharge is consistent with applicable effluent standards and limitations, water quality standards, and other legally applicable requirements listed in WAC 173-220-130.

(4) The notice and public participation procedures specified in WAC 173-220-050 through 173-220-100 are applicable to each draft replacement permit.

(5) When a permittee has made timely and sufficient application for the renewal of a permit, an expiring permit remains in effect and enforceable until the application has been denied or a replacement permit has been issued by the department.

(6) Notwithstanding any other provision in this chapter, any point source, the construction of which is commenced after the date of enactment of the Federal Water Pollution Control Act amendments of 1972 and which is so constructed as to meet all applicable standards of performance, shall not be subject insofar as the FWPCA is concerned to any more stringent standard of performance during a ten year period beginning on the date of completion of such construction or during the period of depreciation or amortization of such facility for the purposes of section 167 or 169 (or both) of the Internal Revenue Code of 1954, whichever period ends first.

[Statutory Authority: RCW 90.54.020 and chapter 90.48 RCW. 88-22-059 (Order 88-9), § 173-220-180, filed 11/1/88. Statutory Authority: RCW 90.48.035 and 90.48.260. 82-24-078 (Order DE 82-39), § 173-220-180, filed 12/1/82; Order DE 74-1, § 173-220-180, filed 2/15/74.]

WAC 173-220-190 Modification and revocation of permits. (1) Any permit issued under this chapter can be modified or revoked in whole or in part by the department for cause including, but not limited to, the causes listed in WAC 173-220-150 (1)(d) or when remanded to the department for modification by the pollution control hearings board.

(2) The department may, upon request of the permittee, modify a schedule of compliance or an operating condition in an issued permit if it determines good and valid cause exists for such revision (such as an act of God, strike, flood, materials shortage, or other event over which the permittee has little or no control and for which there is no other reasonably available remedy).

(3) The department shall modify or revoke permits only after public notice and opportunity for public hearing as provided in this chapter in those instances where changes are proposed which lessen the stringency of effluent limitations. In all other instances, the form of public notice and public participation, if any, shall be determined by the department on a case-by-case basis according to the significance of the proposed action.

[Statutory Authority: RCW 90.54.020 and chapter 90.48 RCW. 88-22-059 (Order 88-9), § 173-220-190, filed 11/1/88. Statutory Authority: RCW 90.48.035 and 90.48.260. 82-24-078 (Order DE 82-39), § 173-220-190, filed 12/1/82; Order DE 74-1, § 173-220-190, filed 2/15/74.]

WAC 173-220-200 Transfer of permit. (1) A permit is automatically transferred to a new discharger if:

(a) A written agreement between the old and new discharger containing a specific date for transfer of permit responsibility, coverage, and liability is submitted to the director; and

(b) The director does not notify the old and new discharger of his/her intent to modify, or revoke and reissue the permit. If this notice is not given, the transfer is effective on the date specified in the agreement mentioned in (a) of this subsection.

(2) Unless a permit is automatically transferred according to subsection (1) of this section, a permit may be transferred only if modified or revoked and reissued to identify the new permittee and incorporate such other requirements as may be necessary.

[Statutory Authority: RCW 90.54.020 and chapter 90.48 RCW. 88-22-059 (Order 88-9), § 173-220-200, filed 11/1/88. Statutory Authority: RCW 90.48.035 and 90.48.260. 82-24-078 (Order DE 82-39), § 173-220-200, filed 12/1/82; Order DE 74-1, § 173-220-200, filed 2/15/74.]

WAC 173-220-210 Monitoring, recording and reporting. (1) Monitoring.

(a) Any discharge authorized by a permit may be subject to such monitoring requirements as may be reasonably required by the department, including the installation, use, and maintenance of monitoring equipment or methods (including, where appropriate, biological monitoring methods). These monitoring requirements would normally include:

(i) Flow (in gallons per day);

(ii) Pollutants (either directly or indirectly through the use of accepted correlation coefficients or equivalent measurements) which are subject to reduction or elimination under the terms and conditions of the permit;

(iii) Pollutants which the department finds could have a significant impact on the quality of surface waters; and

(iv) Pollutants specified by the administrator, in regulations issued pursuant to the FWPCA, as subject to monitoring.

(b) Each effluent flow or pollutant required to be monitored pursuant to (a) of this subsection shall be monitored at intervals sufficiently frequent to yield data which reasonably characterizes the nature of the discharge of the monitored effluent flow or pollutant.

Variable effluent flows and pollutant levels may be monitored at more frequent intervals than relatively constant effluent flows and pollutant levels which may be monitored at less frequent intervals.

(c) Monitoring of intake water, influent to treatment facilities, internal waste streams, and/or receiving waters

may be required when determined necessary by the department to verify compliance with net discharge limitations or removal requirements, to verify that proper waste treatment or control practices are being maintained, or to determine the effects of the discharge on the surface waters of the state.

(2) Recording of monitoring activities and results. Any permit which requires monitoring of the authorized discharge shall require that:

(a) The permittee shall maintain records of all information resulting from any monitoring activities required of him in his permit;

(b) Any records of monitoring activities and results shall include for all samples:

(i) The date, exact place, and time of sampling;

(ii) The dates analyses were performed;

(iii) Who performed the analyses;

(iv) The analytical techniques/methods used; and

(v) The results of such analyses; and

(c) The permittee shall be required to retain for a minimum of three years any records of monitoring activities and results including all original strip chart recording for continuous monitoring instrumentation and calibration and maintenance records. This period of retention shall be extended during the course of any unresolved litigation regarding the discharge of pollutants by the permittee or when requested by the department or regional administrator.

(3) Reporting of monitoring results.

(a) The permittee shall periodically report (at a frequency of not less than once per year) on the proper reporting form, the monitoring results obtained pursuant to monitoring requirements in a permit. In addition to the required reporting form, the department at its discretion may require submission of such other results as it determines to be necessary.

(b) Monitoring reports shall be signed by:

(i) In the case of corporations, by a responsible corporate officer or his duly authorized representative, if such representative is responsible for the overall operation of the facility from which the discharge originates.

(ii) In the case of a partnership, by a general partner.

(iii) In the case of a sole proprietorship, by the proprietor.

(iv) In the case of a municipal, state or other public facility, by either a principal executive officer, ranking elected official, or other duly authorized employee.

(4) Use of registered or accredited laboratories:

(a) Except as established in (c) of this subsection, monitoring data submitted to the department in accordance with this chapter shall be prepared by a laboratory accredited under the provisions of chapter 173-50 WAC no later than indicated by the appropriate date below:

July 1, 1992, major dischargers;

July 1, 1993, all permittees with a permitted average flow rate greater than five million gallons per day.

These requirements are effective and binding on all permittees under the authority of rule, regardless of whether they have been included as conditions of a permit.

(b) Except as established in (c) of this subsection, monitoring data submitted to the department in accordance with this chapter shall be prepared by a laboratory registered or accredited under the provisions of chapter 173-50 WAC no later than July 1, 1994, for all NPDES permittees not covered under (a) of this subsection.

These requirements are effective and binding on all permittees under the authority of rule, regardless of whether they have been included as conditions of a permit.

(c) The following parameters need not be accredited or registered:

(i) Flow;

(ii) Temperature;

(iii) Settleable solids;

(iv) Conductivity, except that conductivity shall be accredited if the laboratory must otherwise be registered or accredited;

(v) pH, except that pH shall be accredited if the laboratory must otherwise be registered or accredited; and

(vi) Parameters which are used solely for internal process control.

[Statutory Authority: RCW 43.21A.230. 93-20-011 (Order 92-53), § 173-220-210, filed 9/22/93, effective 10/23/93; 90-21-090 (Order 90-21), § 173-220-210, filed 10/19/90, effective 11/19/90. Statutory Authority: RCW 90.54.020 and chapter 90.48 RCW. 88-22-059 (Order 88-9), § 173-220-210, filed 11/1/88. Statutory Authority: Chapter 90.48 RCW. 84-11-024 (Order DE 84-19), § 173-220-210, filed 5/11/84. Statutory Authority: RCW 90.48.035 and 90.48.260. 82-24-078 (Order DE 82-39), § 173-220-210, filed 12/1/82; Order DE 74-1, § 173-220-210, filed 2/15/74.]

WAC 173-220-225 Appeals. Individual permits are subject to appeals as specified in chapter 43.21B RCW.

[Statutory Authority: Chapter 90.48 RCW. 93-10-099 (Order 92-55), § 173-220-225, filed 5/5/93, effective 5/19/93. Statutory Authority: RCW 90.54.020 and chapter 90.48 RCW. 88-22-059 (Order 88-9), § 173-220-225, filed 11/1/88. Statutory Authority: RCW 90.48.035 and 90.48.260. 82-24-078 (Order DE 82-39), § 173-220-225, filed 12/1/82.]

WAC 173-220-230 Enforcement. (1) The department, with the assistance of the attorney general, may sue in courts of competent jurisdiction to enjoin any threatened or continuing violations of any permits or conditions thereof without the necessity of a prior revocation of the permit;

(2) The department may enter any premises in which an effluent source is located or in which records are required to be kept under terms or conditions of a permit, and otherwise be able to investigate, inspect, or monitor any suspected violations of water quality standards, or effluent standards and limitations, or of permits or terms or conditions thereof;

(3) The department may assess or, with the assistance of the attorney general, sue to recover in court, such civil fines, penalties, and other civil relief as may be appropriate for the violation by any person of (a) any effluent standards and limitations or water quality standards, (b) any permit or term or condition thereof, (c) any filing requirements, (d) any duty to permit or carry out inspection, entry, or monitoring activities, or (e) any rules, regulations, or orders issued by the department.

(4) The department may request the prosecuting attorney to seek criminal sanctions for the violation by such persons of (a) any effluent standards and limitations or water quality standards, (b) any permit or term or condition thereof, (c) any filing requirements.

(5) The department, with the assistance of the prosecuting attorney, may seek criminal sanctions against any person who knowingly makes any false statement, representation, or

certification in any form or any notice or report required by the terms and conditions of any issued permit or knowingly renders inaccurate any monitoring device or method required to be maintained by the department.

[Order DE 74-1, § 173-220-230, filed 2/15/74.]

WAC 173-220-240 Relationship of department of ecology to permits issued by the energy facility site evaluation council. (1) The energy facility site evaluation council (EFSEC) shall be the state agency to receive applications for, issue, and modify permits for energy facilities subject to chapter 80.50 RCW. Processing of such applications shall be controlled by chapter 463-38 WAC. Application for issuance and modification of permits for all other energy facilities shall be the responsibility of the department.

(2) Monitoring, recording, and reporting activities required of operators of all energy facilities by the terms of a permit issued by EFSEC shall be supervised and enforced by the department.

(3) The department shall carry on an inspection program for the periodic inspection (to be performed not less than once every year) of discharges of pollutants from energy facilities authorized by a permit issued by EFSEC. Such inspections shall determine compliance or noncompliance with issued permits and, in particular, compliance or noncompliance with specific effluent limitations and schedules of compliance in such permits.

(4) The department shall carry on a surveillance program with respect to energy facility discharges for the random sampling and analysis of the discharge for the purpose of identifying occasional and continuing violations of permit conditions and the accuracy of information submitted by permittees in reporting forms.

(5) Enforcement activities regarding the NPDES program, including the levying of civil and criminal fines pertaining to all thermal power plants, whether the permit is issued by the department or EFSEC, shall be undertaken by the department, EFSEC, the attorney general, or the prosecuting attorney, as appropriate.

(6) Nothing in this section shall authorize the department to undertake enforcement or monitoring activities in a manner not consistent with the terms and conditions of any EFSEC-issued NPDES permit.

[Statutory Authority: RCW 90.48.035 and 90.48.260. 82-24-078 (Order DE 82-39), § 173-220-240, filed 12/1/82; Order DE 74-1, § 173-220-240, filed 2/15/74.]

Chapter 173-221 WAC

DISCHARGE STANDARDS AND EFFLUENT LIMITATIONS FOR DOMESTIC WASTEWATER FACILITIES

WAC

173-221-010	Purpose and scope.
173-221-020	Policy.
173-221-030	Definitions.
173-221-040	Domestic wastewater facility discharge standards.
173-221-050	Alternative domestic wastewater facility discharge standards and effluent limitations.
173-221-100	Severability.

WAC 173-221-010 Purpose and scope. (1) The purpose of this chapter is to implement RCW 43.21A.010, 90.48.010, and 90.52.040 by setting discharge standards which represent "all known, available, and reasonable methods" of prevention, control, and treatment for domestic wastewater facilities which discharge to waters of the state. This chapter supplements WAC 173-220-130. Guidelines or policies of the department not included in this chapter are not affected by this chapter, except that if such guidelines or policies are in conflict, the requirements of this chapter shall take precedence.

(2) This chapter also supplements 40 CFR Part 133; Secondary Treatment Regulation. Wherever this chapter is more stringent than the federal regulation, the requirements of this chapter shall take precedence.

[Statutory Authority: RCW 90.48.035 and 90.48.260. 87-23-020 (Order 87-26), § 173-221-010, filed 11/12/87.]

WAC 173-221-020 Policy. Waters of the state shall be of the highest possible quality. Regardless of the quality of the waters of the state, all wastes and other materials and substances proposed for discharge into said waters shall be provided with all known, available, and reasonable methods of treatment prior to discharge. Even though standards of quality established for the waters of the state would not be violated, wastes and other materials and substances shall not be allowed to enter such waters which will reduce the existing quality thereof, except (1) in those situations where it is clear that overriding considerations of the public interest will be served, and (2) they receive all known, available, and reasonable methods of treatment prior to discharge.

[Statutory Authority: RCW 90.48.035 and 90.48.260. 87-23-020 (Order 87-26), § 173-221-020, filed 11/12/87.]

WAC 173-221-030 Definitions. As used in this chapter, unless the context indicates otherwise:

(1) "Seven-day average" means the arithmetic mean of pollutant parameter values for samples collected in a period of seven consecutive days. The department may use pollutant parameter values for samples collected in a calendar week for determining compliance with permit conditions.

(2) "Thirty-day average" means the arithmetic mean of pollutant parameter values for samples collected in a period of thirty consecutive days. The department may use pollutant parameter values for samples collected in a calendar month for determining compliance with permit conditions.

(3) "BOD" means five-day biochemical oxygen demand.

(4) "CBOD" means five-day carbonaceous biochemical oxygen demand.

(5) "Combined sewer" means a sewer which has been designed to serve as a sanitary sewer and a storm sewer, and into which inflow is allowed by local ordinance.

(6) "Department" means the Washington department of ecology.

(7) "Director" means the director of the Washington department of ecology.

(8) "Discharge standard" means a minimum performance requirement established in regulation by the department. Effluent limitations for a pollutant parameter shall not be less stringent than the applicable discharge standard.

(9) "Domestic wastewater" means water carrying human wastes, including kitchen, bath, and laundry wastes from residences, buildings, industrial establishments, or other places, together with such ground water infiltration or surface waters as may be present.

(10) "Domestic wastewater facility" means all structures, equipment, or processes required to collect, carry away, treat, reclaim, or dispose of domestic wastewater together with such industrial waste as may be present. In the case of subsurface sewage treatment and disposal, the term is restricted to mean those facilities treating and disposing of domestic wastewater only from:

(a) A septic tank system with subsurface sewage treatment and disposal and an ultimate design capacity exceeding fourteen thousand five hundred gallons per day at any common point; or

(b) A mechanical treatment system or lagoon followed by subsurface disposal with an ultimate design capacity exceeding three thousand five hundred gallons per day at any common point.

Where the proposed system utilizing subsurface disposal has received a state construction grant or a federal construction grant under the Federal Water Pollution Control Act as amended, such system is a "domestic wastewater facility" regardless of size.

(11) "Effluent concentrations consistently achievable through proper operation and maintenance" means:

(a) For a given pollutant parameter, the 95th percentile value for the thirty-day average effluent quality achieved by a wastewater facility in a period of at least twenty-four consecutive months, excluding values attributable to equipment failures, operational errors, overloading, and other unusual conditions; and

(b) A seven-day average value equal to 1.5 times the value derived under (a) of this subsection.

(12) "Effluent limitation" means any restriction, prohibition, or specification established by the department in a permit or administrative order on:

(a) Quantities, rates, percent removals, and/or concentrations of physical, chemical, or biological characteristics of wastes which are discharged into waters of the state; and

(b) Management practices relevant to the prevention or control of such waste discharges.

Effluent limitations shall be derived from discharge standards and other relevant factors identified in chapter 173-220 WAC.

(13) "Expansion" means the construction of additional treatment units to accommodate hydraulic flow and/or pollutant load for the purpose of increasing the existing design capacity of the wastewater facility.

(14) "Fecal coliform" means the group of coliform bacteria which originate in the intestinal tract of warm-blooded animals.

(15) "Industrial wastewater" means the water or liquid carried wastes from industrial or commercial processes as distinct from domestic wastewater. These wastes may result from any process or activity of industry, manufacture, trade, or business, from the development of any natural resource, or from animal operations such as feedlots, poultry houses, or dairies. The term includes contaminated stormwater and also leachate from solid waste facilities.

(16) "Infiltration" means the addition of ground water into a sewer through joints, the sewer pipe material, cracks, and other defects.

(17) "Inflow" means the addition of rainfall-caused surface water drainage from roof drains, yard drains, basement drains, street catch basins, etc., into a sewer.

(18) "Interfere with" means a discharge by an industrial user which, alone or in conjunction with discharges by other sources, inhibits or disrupts the domestic wastewater facility, its treatment processes or operations, or its sludge processes, use or disposal and which is a cause of a violation of any requirement of the domestic wastewater facility's permit (including an increase in the magnitude or duration of a violation) or of the prevention of sewage sludge use or disposal by the domestic wastewater facility in accordance with the following statutory provisions and regulations or permits issued thereunder (or more stringent state or local regulations): Section 405 of the Federal Water Pollution Control Act, the Solid Waste Disposal Act (SWDA) (including Title II, more commonly referred to as the Resource Conservation and Recovery Act (RCRA)), and including state regulations contained in any state sludge management plan prepared pursuant to Subtitle D or the SWDA, the Clean Air Act, the Toxic Substances Control Act, and the Marine Protection Research and Sanctuaries Act.

(19) "Permittee" means the entity to which the department issues a permit.

(20) "pH" means the negative logarithm of the hydrogen ion concentration.

(21) "Sanitary sewer" means a sewer which is designed to convey domestic wastewater and infiltration.

(22) "State" means the state of Washington.

(23) "Trickling filter" means a fixed growth biological treatment system in which wastewater is sprayed over the top surface of a column of rock or synthetic media. This definition does not include fixed growth biological systems which have a supplemental biological treatment system, other than a waste stabilization pond(s), for the principal wastewater stream.

(24) "TSS" means total suspended solids.

(25) "TSS concentrations achievable with waste stabilization ponds" means a TSS value, determined by the department, which is equal to the effluent concentrations achieved ninety percent of the time within the state or appropriate contiguous geographical area by waste stabilization ponds that are achieving the levels of effluent quality for BOD specified in WAC 173-221-050 (2)(a).

(26) "Waste stabilization pond" means basins built by excavating the ground and by diking for the purpose of treating wastewater under conditions that favor natural biological treatment and accompanying bacterial reduction. This includes domestic wastewater facilities which are classified as stabilization ponds, or aerated lagoons per the department's Criteria for Sewage Works Design.

(27) "Wastewater facility" means all structures and equipment required to collect, transport, treat, reclaim, or dispose of domestic, industrial, or combined domestic/industrial wastewaters.

(28) "Waters of the state" means all lakes, rivers, ponds, streams, inland waters, ground waters, salt waters, and all other waters and watercourses within the jurisdiction of the state of Washington.

(29) "Water quality standards" means the standards set forth in chapter 173-201 WAC.

(30) "Wet weather" means the time during and immediately following rainfall events which cause large quantities of inflow.

[Statutory Authority: RCW 90.48.035 and 90.48.260. 87-23-020 (Order 87-26), § 173-221-030, filed 11/12/87.]

WAC 173-221-040 Domestic wastewater facility discharge standards. (1) Except as allowed under WAC 173-221-050, domestic wastewater facilities which discharge to surface waters shall not exceed a thirty-day average of 30 milligrams per liter (mg/L) BOD, 30 mg/L TSS. Seven-day averages shall not exceed 45 mg/L BOD, 45 mg/L TSS. Additionally, the thirty-day average percent removals of BOD and TSS shall not be less than eight-five percent of influent concentrations.

(2) Fecal coliform limits shall not exceed a monthly geometric mean of 200 organisms/100 milliliters (mL), and a weekly geometric mean of 400 organisms per 100 mL.

(3) The effluent pH value shall be between 6.0 and 9.0 standard units unless the permittee demonstrates that:

(a) Inorganic chemicals are not added to the waste stream as part of the treatment process; and

(b) Contributions from industrial sources do not cause the pH of the effluent to be less than 6.0 or greater than 9.0; and

(c) The discharge does not cause water quality violations outside of an approved dilution zone.

[Statutory Authority: RCW 90.48.035 and 90.48.260. 87-23-020 (Order 87-26), § 173-221-040, filed 11/12/87.]

WAC 173-221-050 Alternative domestic wastewater facility discharge standards and effluent limitations. (1) Alternative discharge standards for trickling filters which were constructed and/or expanded prior to November 1984 are:

(a) Up to a thirty-day average of 45 mg/L BOD, 45 mg/L TSS. Seven-day averages shall not exceed 65 mg/L BOD, 65 mg/L TSS. In addition, the thirty-day average percent removals of BOD and TSS shall not be less than sixty-five percent of influent concentrations;

(b) Notwithstanding (a) of this subsection, not any less stringent than "effluent concentrations consistently achievable through proper operation and maintenance" of the wastewater facility based on an analysis of the past performance, the design, and the design capacity of the wastewater facility;

(c) Fecal coliform and pH discharge standards are as established in WAC 173-221-040.

(2) Alternative discharge standards for waste stabilization ponds which are the principal treatment process and which either have less than a two million gallon per day design capacity or have received, prior to the effective date of this regulation, the department's approval under chapter 173-240 WAC, for a greater design capacity, are:

(a) Up to a thirty-day average of 45 mg/L BOD, 45 mg/L TSS. Seven-day averages shall not exceed 65 mg/L BOD, 65 mg/L TSS. Additionally, the thirty-day average percent BOD removal shall not be less than sixty-five percent of influent concentrations.

(b) The discharge standards for TSS in (a) of this subsection may be adjusted by the department to conform to the "TSS concentrations achievable with waste stabilization ponds," provided that operation and maintenance data indicate that the TSS values specified in (a) of this subsection cannot be achieved.

(c) Notwithstanding (a) and (b) of this subsection, not any less stringent than "effluent concentrations consistently achievable through proper operation and maintenance" of the wastewater facility based upon an analysis of the past performance.

(d) Fecal coliform and pH discharge standards shall be as established in WAC 173-221-040.

(3) For domestic wastewater facilities which receive flows from combined sewers, the department shall decide on a case-by-case basis whether any attainable percent removal can be defined during wet weather. If it can be defined, the department will set an alternative percent removal effluent limitation for the wet weather period. A permittee who requests such alternative limits shall submit supporting documentation to the department.

(4)(a) For domestic wastewater facilities which receive less concentrated influent wastewater, permittees can request and submit supporting documentation for:

(i) A lower percent removal effluent limitation than the discharge standards set forth in WAC 173-221-040, or subsections (1) and (2) of this section; or

(ii) A mass loading limit based upon the lower percent removal.

(b) To qualify for alternative effluent limitations because of less concentrated influent wastewater, the permittee must demonstrate:

(i) The wastewater facility is consistently achieving, and/or will consistently achieve, the effluent concentration limits and mass limits based upon the effluent concentrations in its permit; and

(ii) That to meet the percentage removal requirements set forth in WAC 173-221-040 or subsections (1) and (2) of this section, the wastewater facility would have to achieve an effluent concentration at least 5 mg/L below the effluent concentration which is otherwise required; and

(iii) The less concentrated influent is not the result of excessive infiltration and/or inflow. The department will use federal regulations and guidance in defining excessive infiltration and inflow; and

(iv) The development and implementation of a program, subject to the department's approval, for ongoing wastewater facility maintenance, repair, and replacement, including infiltration and inflow control. A goal of the program shall be eventual achievement of the percent removal requirements specified in WAC 173-221-040 and subsection (1) or (2) of this section, whichever is applicable. The department shall incorporate the approved infiltration and inflow control program into the permit for the wastewater facility.

(5) Subject to the department's approval, a request for alternative effluent limitations pursuant to subsections (1) through (4) of this section must meet all of the following conditions:

(a) The effluent shall not cause water quality violations; and

(b) The permittee shall identify effluent concentrations consistently achievable through proper operation and maintenance; and

(c) The permittee shall demonstrate that industrial wastewater does not interfere with the domestic wastewater facility; and

(d) The wastewater facility must be within department approved hydraulic and organic design capacity; and

(e) The permittee must complete an analysis of whether seasonal alternative effluent limits are more appropriate than year-round; and

(f) The wastewater facility must be able to meet all other permit requirements and conditions.

(6)(a) At the option of the department, in lieu of the parameter BOD and the levels of the BOD effluent quality specified in WAC 173-221-040, the parameter CBOD may be substituted as an effluent limitation with the following levels of the CBOD effluent quality provided: The thirty-day average shall not exceed 25 mg/L. The seven-day average shall not exceed 40 mg/L. Additionally, the thirty-day average percent removal shall not be less than eighty-five percent of the influent concentration.

(b) At the option of the department, in lieu of the parameter BOD and the levels of the BOD effluent quality specified in subsections (1) and (2) of this section, the parameter CBOD may be substituted as an effluent limitation on a case-by-case basis where data are available. The levels of CBOD effluent quality shall not be less stringent than the following: The thirty-day average shall not exceed 40 mg/L. The seven-day average shall not exceed 60 mg/L. The thirty-day average percent removal shall not be less than sixty-five percent of the influent concentration.

(c) Permittee applications for substitution of CBOD for BOD under (b) of this subsection shall include parallel CBOD and BOD data.

[Statutory Authority: RCW 90.48.035 and 90.48.260. 87-23-020 (Order 87-26), § 173-221-050, filed 11/12/87.]

WAC 173-221-100 Severability. If any provision of this chapter or the application thereof to any person or circumstance is held invalid, such invalidity shall not affect other provisions or applications of this chapter which can be given effect without the invalid provision or application.

[Statutory Authority: RCW 90.48.035 and 90.48.260. 87-23-020 (Order 87-26), § 173-221-100, filed 11/12/87.]

Chapter 173-221A WAC

WASTEWATER DISCHARGE STANDARDS AND EFFLUENT LIMITATIONS

WAC

173-221A-010 Purpose and scope.
173-221A-020 Policy.
173-221A-030 Definitions.
173-221A-100 Upland finfish facilities.
173-221A-110 Marine finfish rearing facilities.
173-221A-150 Enforcement.

WAC 173-221A-010 Purpose and scope. This chapter implements chapters 43.21A, 90.48, 90.52, and 90.54 RCW by setting minimum discharge standards which represent "known, available, and reasonable methods" of prevention, control, and treatment for industrial wastewater facilities that discharge to waters of the state. This chapter supplements WAC 173-216-110, 173-218-100, and 173-220-130.

[Statutory Authority: Chapter 90.48 RCW. 90-14-078 (Order 90-11), § 173-221A-010, filed 7/3/90, effective 8/3/90.]

WAC 173-221A-020 Policy. Waters of the state shall be of the high quality. Regardless of the quality of the waters of the state, all wastes and other materials and substances proposed for entry into said waters shall be provided with all known, available, and reasonable methods of treatment prior to entry. Notwithstanding that standards of quality established for waters of the state would not be violated, wastes and other materials and substances shall not be allowed to enter such waters which will reduce the existing quality thereof, except in those situations where it is clear that overriding considerations of the public interest will be served.

[Statutory Authority: Chapter 90.48 RCW. 90-14-078 (Order 90-11), § 173-221A-020, filed 7/3/90, effective 8/3/90.]

WAC 173-221A-030 Definitions. As used in this chapter, unless the context indicates otherwise:

"Department" means the department of ecology.

"Director" means the director of the department of ecology, or designee.

"General NPDES permit" means a permit designed to cover multiple dischargers of a point source category within a designated geographical area, in lieu of individual permits being issued to each discharger.

"Individual NPDES permit" means a permit for a single point source or a single facility.

"Marine finfish rearing facilities" means those private and public facilities located within the salt water of the state where finfish are fed, nurtured, held, maintained, or reared to the size of release or for market sale.

"NPDES" means National Pollutant Discharge Elimination System.

"Permit or wastewater discharge permit" means an authorization, license, or equivalent control document issued by the department to implement chapters 173-220, 173-226, and/or 173-216 WAC.

"Sediment quality standards" means the standards set forth in chapter 173-204 WAC.

"Upland finfish facility" means those facilities not located within waters of the state where finfish are hatched, fed, nurtured, held, maintained, or reared to reach the size of release or for market sale. This includes fish hatcheries, rearing ponds, spawning channels, and other similarly constructed or fabricated public or private facility.

"Wastewater" means the water or liquid carried waste. These wastes may result from any process or activity, including but not limited to, of industry, manufacturer, trade, business, development of any natural resource, or from animal

operations such as feed lots, poultry houses, dairies, or fish rearing operations. The term also includes contaminated storm water and leachate from solid waste facilities.

"Water quality standards" means as applicable: Chapter 173-201A WAC for surface waters, chapter 173-200 WAC for ground waters, and chapter 173-204 WAC for sediment.

"Waters of the state" includes those waters as defined as "waters of the United States" in 40 CFR 122.2 within the geographic boundaries of Washington state and "waters of the state" as defined in RCW 90.48.020.

"40 CFR" means Title 40 of the Code of Federal Regulations, as presently promulgated and subsequently amended or repromulgated.

[Statutory Authority: RCW 90.48.220. 95-22-079 (Order 93-26), § 173-221A-030, filed 10/31/95, effective 12/1/95. Statutory Authority: Chapter 90.48 RCW. 90-14-078 (Order 90-11), § 173-221A-030, filed 7/3/90, effective 8/3/90.]

WAC 173-221A-100 Upland finfish facilities. (1) **Which types of upland finfish facilities need a wastewater discharge permit?**

(a) A permit is required for:

(i) All facilities which produce more than 20,000 net pounds of finfish a year; or

(ii) Feeds more than 5,000 pounds of fish food during any calendar month; or

(iii) Is designated as a significant contributor of pollution by the department in accordance with 40 CFR 122.24.

(b) Facilities which do not require a permit under (a) of this subsection are conditionally exempt from the requirement to obtain a wastewater discharge permit provided they comply with subsections (2) through (6) of this section.

(2) **Time of compliance.** Each upland finfish rearing facility which requires a wastewater discharge permit in accordance with subsection (1) of this section shall submit a completed application form to the department at least one hundred eighty days in advance of the date when permit coverage is deemed necessary.

(3) **Prevention, control, and treatment.** Each upland finfish facility shall provide treatment prior to discharging to waters of the state regardless of receiving water quality. The minimum acceptable technology-based treatment requirements for upland finfish facilities required to obtain permits including general wastewater discharge permits are:

(a) For facilities that use a vacuum cleaning system, standpipe bottom-drain system or other method to remove solids from the water, raceways or ponds, with treatment in a separate settling basin or treatment system:

(i) All facilities utilizing off-line settling shall incorporate into the pond or raceway design methods to collect settleable solids. Methods such as screened settling zones in the downstream end at raceways shall be used to collect settleable solids prior to periodic removal to off-line settling basins.

(ii) The settling basin shall be designed to minimize short-circuiting and to provide a minimum total suspended solids average monthly percent removal of 85% and an average monthly settleable solids percent removal of 90%.

(iii) Turbulent flow shall be minimized within the cleaning system to avoid homogenization or solids.

(iv) Rearing of fish within the settling basin is not permitted.

(b) For facilities that provide in-line settling for the entire effluent;

(i) The settling basin shall be designed to minimize hydraulic short-circuiting.

(ii) The settling basin shall be designed to provide at least a twenty year sludge decomposition and storage capacity unless provisions are made for periodic sludge removal without interruption in treatment.

(iii) Rearing of fish within the settling basin is prohibited.

(c) For facilities with rearing ponds only, no other form of effluent treatment shall be required, provided the rearing pond has a minimum hydraulic retention time of two hours or more. Rearing vessels with less than two hours hydraulic retention time may be approved by the department in writing without additional treatment provided the applicant can demonstrate to the department, in advance, the ability to continuously comply with effluent limits established in subsection (4)(a) of this section.

(d) Each upland finfish facility that begins construction after September 1, 1990, or expands production by fifty percent over the production on the effective date of this rule shall either:

(i) Line all settling basins or otherwise ensure that the static (i.e., without inflow) seepage rate through the settling basin bottom and sides shall not be greater than a water surface drop of 0.10 inch per day; or

(ii) Demonstrate to the department through hydrogeologic investigation and/or ground water monitoring that the operation of the facility will not have an adverse impact upon ground water quality.

(e) Notwithstanding the treatment requirements of this subsection, more stringent or additional conditions may be required by the department as necessary on a case-by-case basis to mitigate adverse water quality impacts or meet water quality standards, ground water standards, sediment standards or other applicable requirements of federal or state law.

(4) **Effluent standards.** Wastewater from all upland finfish facilities regardless of size shall meet the following effluent discharge standards.

(a) Facility discharges.

(i) The instantaneous maximum total suspended solids concentration in the effluent at the point of discharge to the receiving environment shall not exceed 15 milligrams per liter of effluent.

(ii) The average total suspended solids concentration in the effluent at the point of discharge to the receiving environment shall not exceed 5 milligrams per liter of effluent.

(iii) The average settleable solids concentration in the effluent at the point of discharge to the receiving environment shall not exceed 0.1 milliliter per liter of effluent.

(iv) Effluent limitations shall apply as net values provided the criteria contained in 40 CFR 122.45 (net gross allowance) are met.

(b) Off-line settling basin effluent.

(i) The instantaneous maximum total suspended solids concentration shall not exceed 100 milligrams per liter of effluent.

(ii) The instantaneous maximum settleable solids concentration in off-line settling basin effluent shall not exceed 1.0 milliliter per liter of effluent.

(c) Discharges during rearing pond drawdown for fish release shall meet the following discharge standards. Pond drawdown for purposes other than fish release shall meet the discharger standards in (a) of this subsection.

(i) The instantaneous maximum total suspended solids concentration in the rearing pond effluent shall not exceed 100 milligrams per liter.

(ii) The instantaneous maximum settleable solids concentration in the rearing pond effluent shall not exceed 1.0 milliliter per liter.

(d) Test procedures. All sampling and analytical methods used to determine compliance with standards specified in this subsection shall, unless otherwise approved by the department, conform to the *Guidelines Establishing Test Procedures for the Analysis of Pollutants* contained in 40 CFR Part 136.

(e) Notwithstanding the numerical discharge standards within this subsection, each upland finfish facility shall be operated in the most efficient manner possible. Additional effluent limits and/or more stringent effluent limits may be required as necessary on a case-by-case basis to meet water quality standards, ground water quality standards, sediment quality standards, or other applicable requirements of federal or state law.

(5) **General requirements.** The following practices shall be applicable to all upland finfish facilities.

(a) Sand, silt, mud, solids, sludges, filter backwash, debris, or other pollutants deposited or removed in the course of treatment or control of water supply and wastewaters shall be disposed of in a manner so as to prevent such materials from entering waters of the state.

(b) Discharging untreated cleaning wastes (e.g., obtained from a vacuum or standpipe bottom drain system) to waters of the state is prohibited.

(c) Sweeping or intentionally discharging accumulated solids from raceways or ponds to waters of the state without prior treatment is prohibited.

(d) Practices such as removing dam boards in raceways or ponds, that allow accumulated solids to discharge to waters of the state are prohibited.

(e) The discharge of any drugs or chemicals in toxic amounts or in violation of water quality standards to waters of the state is prohibited.

(f) Disease control chemical use practices. The following requirements only apply to those drugs and chemicals included in feed or administered by a bath or dip treatment which results or may result in those materials being discharged to waters of the state. These requirements do not apply to drugs and chemicals administered by injections or by dip treatments which results in no discharge to waters of the state.

(i) Disease control chemicals and drugs approved for hatchery use by the United States Food and Drug Administration (USFDA) or the United States Environmental Protection Agency (USEPA) may be used.

(ii) USFDA approved Investigational New Animal Drugs (INADs) may also be used at a facility, provided the conditions detailed in a facility's INAD permit application are met.

(iii) All disease control drug and chemical use must be done in conformance with product label instructions, approved INAD protocols, or be administered by or under the supervision of a licensed veterinarian.

(iv) Disease control drugs and chemicals which are not used in accordance with product label instructions, or under USFDA approved INAD protocols must:

(A) Be administered by or under the supervision of a licensed veterinarian; and

(B) Be approved in advance by the department.

(v) The department may require disease control drug and chemical use reports from each facility.

(g) Fish mortalities, kill spawning, processing wastes, and any leachate from these materials shall be disposed of in a manner so as to prevent such materials from entering the waters of the state.

(h) Right of entry.

(i) Authorized representatives of the department, upon presentation of identification shall be allowed to:

(A) Enter in or upon the facility at all reasonable times;

(B) Have access to and copy at all reasonable times any records relative to information that must be kept or provided the department under the terms of, as applicable: The conditional exemption or wastewater discharge permit;

(C) Inspect, investigate, and photograph at all reasonable times any production, collection, treatment, pollution management, monitoring, or discharge equipment or facilities, or any conditions relating to pollution or possible pollution of any waters of the state;

(D) Sample and make tests at all reasonable times; and

(E) The term "reasonable times" shall include normal business hours, hours during which production, prevention, control, or treatment occurs or times when the department reasonably suspects a violation of this chapter is or may be occurring.

(6) **Receiving water quality studies.** Receiving water quality studies shall be required as follows for each upland finfish facility which begins construction after September 1, 1990, or expands production by fifty percent over the production on the effective date of this rule. Existing facilities may be required to do receiving water studies on a case-by-case basis. Dilution shall be evaluated by the department using total facility effluent at maximum production at the lowest seven-day average receiving stream flow with a 10-year recurrence interval (7Q10).

(a) For facilities with a discharge of one part upland finfish facility effluent to ten parts or more of receiving water, receiving water studies are not required unless significant data indicates water quality standards would be violated.

(b) For facilities with an effluent dilution of between one part upland finfish facility effluent to three parts receiving water and one part effluent to ten parts receiving water, receiving water studies may be required by the department. The department shall provide the upland finfish operator or permit applicant with written documentation on the need for receiving water studies upon request. Factors to be considered by the department in determining the need for and objec-

tives of special receiving water studies may include, but are limited to, the following:

(i) The water quality classification of the receiving water of the state;

(ii) The potential water quality impacts of surrounding land use practices and/or existing and proposed discharges including the proposed upland finfish hatching and rearing facility;

(iii) The likelihood that the proposed discharge will have an effect on existing water quality and/or present or future beneficial uses;

(iv) The proximity of the discharge to a quiescent water body such as a lake or a reservoir;

(v) On-site inspection;

(vi) The potential of the discharge to have an adverse impact on receiving water quality such that water quality standards would be violated; and

(vii) Possible beneficial impacts of upland finfish discharges on existing water quality such as flow augmentation.

(c) For facilities with an effluent dilution of one part upland finfish facility effluent to three parts or less of receiving waters, receiving water quality studies will generally be required for new facilities and may be required on a case-by-case basis for existing facilities.

(d) Receiving water quality studies content and scope shall include, as required by the department an analysis of the proposed facilities discharge and any impacts upon the receiving water of the state, including, but not limited to, the following:

(i) Identification of existing and potential beneficial uses of the receiving water of the state and an evaluation of the impact on those beneficial uses of the proposed discharge;

(ii) Hydraulic impacts;

(iii) The impacts of both nitrogen and phosphorous compounds and the potential for eutrophication of the receiving waters;

(iv) The use of chemicals and medications within the facility, their toxicity, and the impacts on the receiving waters;

(v) The effect of the facilities on receiving water temperature and dissolved oxygen concentrations; and

(vi) The potential for impacting any specified identified water use.

(vii) Possible beneficial impact of upland finfish discharges on existing water quality such as flow augmentation.

[Statutory Authority: RCW 90.48.220. 95-22-079 (Order 93-26), § 173-221A-100, filed 10/31/95, effective 12/1/95. Statutory Authority: Chapter 90.48 RCW. 90-14-078 (Order 90-11), § 173-221A-100, filed 7/3/90, effective 8/3/90.]

WAC 173-221A-110 Marine finfish rearing facilities. (1) This rule sets waste discharge standards for finfish rearing facilities located within marine waters as required by RCW 90.48.220. Net-pens, floating raceways, closed bag, and barge systems are some examples of finfish rearing facilities covered by this section.

(2) **Which types of marine finfish rearing facilities need a wastewater discharge permit?**

(a) A permit is required for:

(i) All facilities which produce more than 20,000 net pounds of finfish a year; or

(ii) Feeds more than 5,000 pounds of fish food during any calendar month; or

(iii) Is designated as a significant contributor of pollution by the department in accordance with 40 CFR 122.24.

(b) Facilities which do not require a permit under (a) of this subsection are conditionally exempt from the requirement to obtain a state waste discharge permit under chapter 173-216 WAC provided they comply with subsections (3) through (5) of this section.

(3) **Time of compliance.**

(a) Each marine finfish rearing facility which requires a wastewater discharge permit in accordance with subsection (2) of this section shall submit a completed application form to the department at least one hundred eighty days in advance of the date when permit coverage is deemed necessary.

(b) Existing unpermitted marine finfish rearing facilities which require a waste discharge permit in accordance with subsection (2) of this section shall file a completed application form with the department by January 31, 1996.

(4) **Requirements applicable to all marine finfish rearing facilities.** All marine finfish rearing facilities regardless of size, shall be operated so as to:

(a) Comply with all applicable state water quality standards and sediment quality standards.

(b) Comply with the following general requirements meant to reduce pollutants in the effluent:

(i) Feeding practices. Fish food shall be dispersed in a manner which maximizes ingestion by the reared fish.

(ii) Disease control chemical use practices. The following requirements only apply to those drugs and chemicals included in feed or administered by a bath or dip treatment which results or may result in those materials being discharged to waters of the state. These requirements do not apply to drugs and chemicals administered by injections or by dip treatments which results in no discharge to waters of the state.

(A) Disease control chemicals and drugs approved for use by the United States Food and Drug Administration (USFDA) or the United States Environmental Protection Agency (USEPA) may be used.

(B) USFDA approved Investigational New Animal Drugs (INADs) may also be used at a facility, provided the conditions detailed in a facility's INAD permit application are met.

(C) All disease control drug and chemical use must be done in conformance with product label instructions, approved INAD protocols, or be administered by or under the supervision of a licensed veterinarian.

(D) Disease control drug and chemicals which are not used in accordance with product label instructions, or under USFDA approved INAD protocols must:

(I) Be administered by or under the supervision of a licensed veterinarian; and

(II) Be approved in advance by the department.

(E) The department may require disease control drug and chemical use reports from each facility.

(iii) Right of entry. Authorized representatives of the department, upon presentation of identification shall be allowed to:

(A) Enter in or upon the facility at all reasonable times;

(B) Have access to and copy at all reasonable times any records relative to information that must be kept or provided the department under the terms of, as applicable: The conditional exemption or wastewater discharge permit;

(C) Inspect, investigate, and photograph at all reasonable times any production, collection, treatment, pollution management, monitoring, or discharge equipment or facilities, or any conditions relating to pollution or possible pollution of any waters of the state;

(D) Sample and make tests at all reasonable times; and

(E) The term "reasonable times" shall include normal business hours, hours during which production, prevention, control, or treatment occurs or times when the department reasonably suspects a violation of this chapter is or may be occurring.

(iv) Operational conditions.

(A) Fish mortalities, harvest blood, and any leachate from these materials shall be stored and disposed of in a manner so as to prevent such materials from entering the waters of the state.

(B) Accumulated solids and attached marine growth contained within or on the finfish rearing units shall be disposed of in a manner which prevents, to the maximum extent practicable, these materials from entering or reentering waters of the state.

(C) Discharging accumulated solids and marine growth removed from the finfish rearing units into waters of the state without prior treatment is prohibited.

(D) Storage quantities of all necessary chemicals, petroleum products, and potentially toxic substances essential to the day-to-day operation of the facility shall be minimized. These products shall be kept in leak proof storage areas which provide secondary containment.

(c) Pollution prevention plan. All marine finfish rearing facilities shall develop a pollution prevention plan within six months of permit issuance. Facilities which do not require discharge permits shall prepare and implement a pollution prevention plan within a year of the adoption date of this rule, or when fish are introduced, whichever is later.

(i) The plan shall address: Operating, spill prevention, spill response, solid waste, and storm water discharge practices which prevent or minimize the release of pollutants from the facility to the waters of the state.

(ii) Each facility shall be operated in accordance with its plan along with any subsequent plan amendments or revisions.

(iii) A copy of the most current version of the plan shall be maintained at the facility and available to the department upon request.

(5) **Environmental studies.** The purpose of these studies shall be to determine the potential of the discharge from a marine finfish rearing facility to have an adverse impact on existing water quality and sediment quality.

(a) Environmental studies shall be required as necessary to determine compliance with applicable water quality standards for each new facility which begins construction after November 1, 1995, or for each permitted facility which expands production by fifty percent over the permitted production on the effective date of this rule. Permitted production means the production level authorized for a facility in a waste discharge permit issued pursuant to chapter 90.48 RCW or shoreline permit issued pursuant to chapter 90.58 RCW. Existing facilities may be required to do environmental studies on a case-by-case basis.

(b) Environmental monitoring and reporting programs will be required to ensure the discharge from a facility complies with state water quality standards and sediment management standards. The department may require environmental monitoring programs through the issuance of wastewater discharge permits, and/or through administrative orders.

[Statutory Authority: RCW 90.48.220. 95-22-079 (Order 93-26), § 173-221A-110, filed 10/31/95, effective 12/1/95.]

WAC 173-221A-150 Enforcement. This chapter shall be enforced through all legal, equitable, and other methods available to the department, including, but not limited to those described in chapter 90.48 RCW.

[Statutory Authority: Chapter 90.48 RCW. 90-14-078 (Order 90-11), § 173-221A-150, filed 7/3/90, effective 8/3/90.]

Chapter 173-222 WAC
WASTEWATER DISCHARGE PERMIT FEES

WAC

173-222-010 Purpose and authority.
173-222-015 Applicability.
173-222-020 Definitions.
173-222-030 Discharge categories.
173-222-040 Complexity factors.
173-222-050 Permit fees.
173-222-060 Permit fee payment.
173-222-070 Periodic review.
173-222-080 Public notice.
173-222-090 Public hearings.
173-222-100 Agency initiated modifications.
173-222-110 Appeals.

WAC 173-222-010 Purpose and authority. It is the purpose of this chapter to establish fees for permits issued by the department of ecology pursuant to RCW 90.48.160, 90.48.162, and 90.48.260. The collection of fees which reflects the administrative expenses incurred by the department of ecology in the processing of such permit applications is authorized by RCW 90.48.460. Fees are not annual operating fees but relate to the cost of application filing and processing.

[Statutory Authority: Chapter 43.21A RCW. 86-06-040 (Order 86-03), § 173-222-010, filed 3/4/86.]

WAC 173-222-015 Applicability. This chapter applies to all permit applications received by the department after July 28, 1985. This chapter does not apply to permits issued after June 30, 1988.

[Statutory Authority: Chapter 43.21A RCW. 88-12-035 (Order 88-8), § 173-222-015, filed 5/26/88, effective 7/1/88; 86-06-040 (Order 86-03), § 173-222-015, filed 3/4/86.]

WAC 173-222-020 Definitions. (1) "Department" means the department of ecology.

(2) "Director" means the director of the department of ecology or authorized representative.

(3) "NPDES permit" means the National Pollutant Discharge Elimination System permit issued pursuant to Section 402 of the federal Clean Water Act and RCW 90.48.260.

(4) "Major facility" means any NPDES permitted facility or activity classified as such by the Region 10 administrator of the Environmental Protection Agency in conjunction with the director. This list is published annually as part of the state/EPA agreement.

(5) "Minor facility" means any NPDES permitted facility or activity not classified as a major facility.

(6) "Application fee" means that fee which must accompany the permit application.

(7) "Permit fee" means that fee charged for issuance, reissuance, or modification of a permit as defined by this chapter.

(8) "Permit issuance" means the issuance of a permit for a new source or to a source not previously permitted.

(9) "Permit reissuance" means the issuance of a permit for a currently permitted source.

(10) "Substantial modification" means the modification of a permit involving at least one complexity factor.

(11) "Administrative modification" means those revisions that do not involve a complexity factor such as, changes in reporting schedules, compliance schedules, and monitoring schedules.

(12) "EPA" means the United States Environmental Protection Agency.

(13) "Permitted flow" means the daily average flow limitation contained in the permit; where a flow limit is not specified, design flow of the facility will be used.

[Statutory Authority: Chapter 43.21A RCW. 86-06-040 (Order 86-03), § 173-222-020, filed 3/4/86.]

WAC 173-222-030 Discharge categories. For the purpose of this chapter, discharges are classified according to the following categories:

(1) Category 1A is for major domestic NPDES permitted facilities with a permitted flow greater than fifteen million gallons per day.

(2) Category 1B is for major domestic NPDES permitted facilities with a permitted flow between one million and fifteen million gallons per day.

(3) Category 1C is for minor domestic NPDES permitted facilities with a permitted flow of less than one million gallons per day.

(4) Category 1D is for all domestic state waste discharge permitted facilities with a discharge to ground water.

(5) Category 2A is for major industrial NPDES permitted facilities.

(6) Category 2B is for minor industrial NPDES permitted facilities and all state waste discharge permitted facilities, requiring biological and/or chemical treatment.

(7) Category 2C is for minor industrial NPDES permitted facilities and all state waste discharge permitted facilities, *not* requiring biological or chemical treatment with a permitted flow greater than or equal to 0.5 million gallons per day.

(8) Category 2D is for minor industrial NPDES permitted facilities and all state waste discharge permitted facilities *not* requiring biological or chemical treatment, with a permitted flow less than 0.5 million gallons per day, and/or with an intermittent discharge.

(9) Category 3A is for area-wide, general NPDES permits.

(10) Category 3B is for coverage by a general NPDES permit, not included in Category 3A.

[Statutory Authority: Chapter 43.21A RCW. 86-06-040 (Order 86-03), § 173-222-030, filed 3/4/86.]

WAC 173-222-040 Complexity factors. (1) There are a number of factors that may be a component of some permit applications; processing such applications can take substantially increased staff time. For the purpose of this chapter, these factors are identified as follows:

(a) Combined sanitary and storm sewers.

(b) Local industrial wastewater pretreatment program.

(c) Excessive inflow and/or infiltration problems.

(d) Receiving water quality considerations.

(e) Ground water monitoring.

(f) Solid waste management including sludge management.

(g) Level of treatment including: (i) Facility upgrade, (ii) system design capacity, (iii) seasonal variations in loading.

(h) Major change or variation in process or production.

(i) Toxics monitoring, including biomonitoring.

(j) Permit involving multiple industrial categories or subcategories.

(k) Fundamentally different factors analysis pursuant to 40 CFR 125.30.

(l) Best professional judgment (BPJ) analysis including those pursuant to 40 CFR 125.3.

(m) Request for a nonconventional pollutant variance pursuant to Section 301(g) of the federal Clean Water Act.

(n) Request for a thermal variance pursuant to Section 316(a) of the federal Clean Water Act.

(2) For the purpose of this chapter, factors (a) through (j) of subsection (1) of this section each shall count as one complexity factor and factors (k) through (n) of subsection (1) of this section each shall count as two complexity factors. Each applies only when the department is required to expend a substantial amount of time in addressing that factor during the processing of a permit application.

(3) Any work done by the applicant to minimize the expenditure of staff time by the department shall be considered in determining the permit fee.

[Statutory Authority: Chapter 43.21A RCW. 86-06-040 (Order 86-03), § 173-222-040, filed 3/4/86.]

WAC 173-222-050 Permit fees. (1) Application fee: $100 (nonrefundable).

(2) Permit fee:

(a) Permit fee schedule

Departmental Action	Discharge Categories							
	Domestic				Industrial			
	1A	1B	1C	1D	2A	2B	2C	2D
Permit Issuance								
0 Complexity Factors	$2,252	$1,468	$1,216	$1,300	$2,336	$1,468	$1,216	$ 740
1 Complexity Factor	4,044	2,476	1,972	2,140	4,212	2,476	1,972	1,020
2 Complexity Factors	5,836	3,484	2,700	2,980	6,060	3,484	2,700	1,300
3 Complexity Factors	7,628	4,492	3,484	3,820	7,964	4,492	3,484	1,580
4 Complexity Factors	9,420	5,500	4,240	4,660	9,840	5,500	4,240	1,860
5 Complexity Factors	11,212	6,508	4,996	5,500	11,716	6,508	4,996	2,140
6 Complexity Factors	13,004	7,516	5,752	6,340	13,592	7,516	5,752	2,420
Permit Reissuance								
0 Complexity Factors	1,720	1,104	1,020	1,048	1,636	1,104	1,020	656
1 Complexity Factor	2,980	1,748	1,580	1,636	2,812	1,748	1,580	852
2 Complexity Factors	4,240	2,364	2,140	2,224	3,988	2,364	2,140	1,020
3 Complexity Factors	5,500	3,036	2,700	2,812	5,164	3,036	2,700	1,244
4 Complexity Factors	6,760	3,680	3,260	3,400	6,340	3,680	3,260	1,440
5 Complexity Factors	8,020	4,324	3,820	3,988	7,516	4,324	3,820	1,636
6 Complexity Factors	9,280	4,968	4,380	4,576	8,692	4,968	4,380	1,832
Substantial Modification								
1 Complexity Factor	1,720	1,104	1,020	1,048	1,636	1,104	1,020	656
2 Complexity Factors	2,980	1,748	1,580	1,636	2,812	1,748	1,580	852
3 Complexity Factors	4,240	2,364	2,140	2,224	3,988	2,364	2,140	1,020
4 Complexity Factors	5,500	3,036	2,700	2,812	5,164	3,036	2,700	1,244
Administrative Modifications	460	460	460	460	460	460	460	460

(b) The number of complexity factors that may be charged for any given permit is limited to four, regardless of the total number of complexity factors involved, except that a facility with multiple discharge points may be charged for up to six complexity factors. Where multiple discharge points exist, complexity factors uniquely applicable to each discharge point will be charged.

(c) General permits.

(i) Area-wide (Category 3A) permit fees will be based on an accounting of actual costs incurred by the department.

(ii) Requests for coverage by general permit (Category 3B): $100 (nonrefundable).

(d) The fees identified in this section are based on averages of the total actual costs incurred by the department in processing each type of permit application. Total actual costs include salaries, benefits, indirect costs, and clerical costs.

[Statutory Authority: Chapter 43.21A RCW. 86-06-040 (Order 86-03), § 173-222-050, filed 3/4/86.]

WAC 173-222-060 Permit fee payment. (1) The application fee must accompany the permit application. If the application fee does not accompany the permit application, the application will be returned as incomplete.

(2) Request for coverage by a general permit must be accompanied by the fee. If the application fee does not accompany the permit application, the application will be returned as incomplete.

(3) The department will inform the applicant of applicable permit fees at least thirty days prior to permit action.

(4) The appropriate permit fee must be received by the department within sixty days of notification. Failure to pay the applicable permit fees will result in termination of any continuation of an expired permit pursuant to WAC 173-220-180(5), or of a temporary permit pursuant to RCW 90.48.200.

(5) For permits issued prior to the effective date of this chapter, to which WAC 173-222-015 applies, fees must be received by the department within one hundred eighty days of notification by the department. Failure to make payment will result in immediate action pursuant to chapter 90.48 RCW and chapters 173-216 and 173-220 WAC.

(6) The applicable permit fee shall be paid by check or money order payable to the "department of ecology." Municipalities may use purchase orders.

(7) When payment is made by check which is subsequently returned due to insufficient funds, the department will take appropriate action pursuant to chapter 90.48 RCW.

[Statutory Authority: Chapter 43.21A RCW. 86-06-040 (Order 86-03), § 173-222-060, filed 3/4/86.]

WAC 173-222-070 Periodic review. The department shall review biennially the data used to establish the fee schedule to determine if fees need to be adjusted.

[Statutory Authority: Chapter 43.21A RCW. 86-06-040 (Order 86-03), § 173-222-070, filed 3/4/86.]

WAC 173-222-080 Public notice. It will continue to be the responsibility of the permit applicant to comply with all applicable public notice requirements pursuant to chapters 173-216 and 173-220 WAC.

[Statutory Authority: Chapter 43.21A RCW. 86-06-040 (Order 86-03), § 173-222-080, filed 3/4/86.]

WAC 173-222-090 Public hearings. Public hearings required as the result of a permit application will be conducted by the department at no additional cost to the applicant.

[Statutory Authority: Chapter 43.21A RCW. 86-06-040 (Order 86-03), § 173-222-090, filed 3/4/86.]

WAC 173-222-100 Agency initiated modifications. There will be no charge to the permittee for modifications initiated by the department.

[Statutory Authority: Chapter 43.21A RCW. 86-06-040 (Order 86-03), § 173-222-100, filed 3/4/86.]

WAC 173-222-110 Appeals. Any person aggrieved by a determination made by the department under this chapter may appeal to the pollution control hearings board pursuant to chapter 43.21B RCW and the procedure adopted at chapter 371-08 WAC.

[Statutory Authority: Chapter 43.21A RCW. 86-06-040 (Order 86-03), § 173-222-110, filed 3/4/86.]

Chapter 173-224 WAC

WASTEWATER DISCHARGE PERMIT FEES

WAC

173-224-015	Purpose.
173-224-020	Applicability.
173-224-030	Definitions.
173-224-040	Permit fee schedule.
173-224-050	Permit fee computation and payments.
173-224-060	Permits issued by other governmental agencies.
173-224-080	Transfer of ownership or control.
173-224-090	Small business fee reduction.
173-224-100	Administrative appeals to the department.
173-224-110	Deposits.
173-224-120	Past due payments.

DISPOSITION OF SECTIONS FORMERLY CODIFIED IN THIS CHAPTER

173-224-070 Credits. [Statutory Authority: Chapter 43.21A RCW. 89-12-027 and 90-07-015 (Order 89-8 and 89-8A), § 173-224-070, filed 5/31/89 and 3/13/90, effective 4/13/90.] Repealed by 96-03-041 (Order 94-21), filed 1/10/96, effective 2/10/96. Statutory Authority: Chapter 90.48 RCW.

WAC 173-224-015 Purpose. The purpose of this chapter is to establish a fee system for state waste discharge and NPDES permits issued by the department pursuant to RCW 90.48.160, 90.48.162, or 90.48.260. RCW 90.48.465 authorizes the department to base fees on factors related to the complexity of permit issuance and compliance and to charge fees to fully recover, but not exceed the costs of the permit program based on expenses incurred in the issuance and comprehensive administration of state waste discharge and NPDES permits. Fee amounts contained in this chapter represent the department's true estimate of fee eligible permit program costs and reflect the department's commitment to fully recover all eligible expenses. The department shall continue to examine the feasibility of adopting, when applicable, alternative permit fee systems. Any alternative fee system, such as variable permit fees, shall ensure continued full recovery of eligible program costs and may be based on pollutant loading and toxicity and may be designed to encourage recycling and reduction of the quantity of pollutants.

[Statutory Authority: Chapter 90.48 RCW. 92-03-131 (Order 91-45), § 173-224-015, filed 1/21/92, effective 2/21/92. Statutory Authority: Chapter 43.21A RCW. 89-12-027 and 90-07-015 (Order 89-8 and 89-8A), § 173-224-015, filed 5/31/89 and 3/13/90, effective 4/13/90.]

WAC 173-224-020 Applicability. This chapter applies to all persons holding or applying for a state waste discharge or NPDES permit issued by the department pursuant to RCW 90.48.160, 90.48.162, 90.48.200 or 90.48.260, including persons holding permits that remain in effect under WAC 173-216-040, 173-220-180(5), or 173-226-050. This chapter does not apply when a wastewater discharge permit is written for a state conducted remedial action under the Model Toxics Control Act. That is, ecology will not charge itself for wastewater discharge permits written for sites where the agency is conducting a cleanup.

[Statutory Authority: Chapter 90.48 RCW. 94-10-027 (Order 93-08), § 173-224-020, filed 4/28/94, effective 5/29/94; 92-03-131 (Order 91-45), § 173-224-020, filed 1/21/92, effective 2/21/92. Statutory Authority: Chapter 43.21A RCW. 89-12-027 and 90-07-015 (Order 89-8 and 89-8A), § 173-224-020, filed 5/31/89 and 3/13/90, effective 4/13/90.]

WAC 173-224-030 Definitions. "Administrative expenses" means those costs associated with issuing and administering permits under RCW 90.48.160, 90.48.162, and 90.48.260.

"Aggregate production" means the mining or quarrying of sand, gravel, or rock, or the production of concrete, or asphalt or a combination thereof.

"Aluminum and magnesium reduction mills" means the electrolytic reduction of alumina or magnesium salts to produce aluminum or magnesium metal.

"Animal unit" means one slaughter or feeder steer, 1.4 mature dairy cow, 25 swine or as more fully defined in Appendix B of 40 CFR 122.

"Annual permit fee" means the fee charged by the department for annual expenses associated with activities specified in RCW 90.48.465. This annual fee is based on the state's fiscal year (July 1 - June 30).

"bbls/d" means barrels per day of feedstock for petroleum refineries.

"bins/yr" means total standard bins used during the last complete calendar year by a facility in the crop preparing industry. The bins measure approximately 47.5 inches x 47.4 inches x 29.5 inches and hold approximately 870 pounds of fruit.

"Chemical pulp mill w/chlorine bleaching" means any pulp mill that uses chlorine or chlorine compounds in their bleaching process.

"Combined food processing waste treatment facility" means a facility that treats wastewater from more than one separately permitted food processor and receives no domestic wastewater or waste from industrial sources other than food processing.

"Combined industrial waste treatment" means a facility which treats wastewater from more than one industry in any of the following categories: Inorganic chemicals, metal finishing, ore concentration, organic chemicals, or photofinishers.

"Combined sewer overflow (CSO)" means the event during which excess combined sewage flow caused by inflow is discharged from a combined sewer, rather than conveyed to the sewage treatment plant because either the capacity of the treatment plant or the combined sewer is exceeded.

"Concentrated animal feeding operation" means an "animal feeding operation" that meets the criteria in Appendix B

of 40 CFR 122 as presently enacted and any subsequent modifications thereto.

"Contaminants of concern" means a chemical for which an effluent limit is established (this does not include pH, flow, temperature, or other "nonchemical parameters"). Petroleum constituents will be considered as one contaminant of concern even if more than one effluent limit is established (e.g., Total Petroleum Hydrocarbons and BTEX).

"Crane" means a machine used for the hoisting and lifting of ship hulls.

"Crop preparing" means the preparation of fruit for wholesale or retail sale by washing and/or other processes in which the skin of the fruit is not broken and in which the interior part of the fruit does not come in direct contact with the wastewater.

"cu. yds/yr" means the total production from an aggregate production facility in cubic yards during the most recent completed calendar year.

"Department" means the department of ecology.

"Director" means the director of the department of ecology.

"Domestic wastewater" means water carrying human wastes, including kitchen, bath, and laundry wastes from residences, buildings, industrial establishments or other places, together with any groundwater infiltration or surface waters that may be present.

"Domestic wastewater facility" means all structures, equipment, or processes required to collect, carry away, treat, reclaim or dispose of domestic wastewater together with such industrial waste as may be present.

"Existing operations" means those industrial operations requiring a wastewater discharge permit before July 1, 1993.

"EPA" means the United States Environmental Protection Agency.

"Fin fish rearing and hatching" means the raising of fin fish for fisheries enhancement or sale, by means of hatcheries, net pens, or other confined fish facilities.

"Flavor extraction" means the recovery of flavors or essential oils from organic products by steam distillation.

"Food processing" means the preparation of food for human or animal consumption or the preparation of animal byproducts, excluding crop preparing. This category includes, but is not limited to, fruit and vegetable processing, meat and poultry products processing, dairy products processing, beer production, rendering and animal feed production. Food processing wastewater treatment plants that treat wastes from only one separately permitted food processor must be treated as one facility for billing purposes.

"Hazardous waste clean up sites" means any facility where there has been confirmation of a release or threatened release of a hazardous substance that requires remedial action other than RCRA corrective action sites.

"Industrial facility" means any facility not included in the definition of municipal/domestic facility.

"Industrial gross revenue" means the annual amount of the sales of goods and services produced using the processes regulated by the wastewater discharge permit.

"Industrial storm water" means an operation required to be covered under ecology's NPDES and state waste discharge baseline general permit for storm water discharges associated with industrial activities or modifications to that permit or having an individual wastewater permit for storm water only.

"MGD" means permitted flow expressed in million gallons per day.

"Manufacturing" means the making of goods and articles by hand or especially, by machinery into a manufactured product.

"Metal finishing" means the preparation of metal surfaces by means of electroplating, electroless plating, anodizing, coating (chromating, phosphating and coloring), chemical etching and milling, and printed circuit board manufacture.

"Municipal/domestic facility" means a publicly-owned facility treating domestic wastewater together with any industrial wastes that may be present, or a privately-owned facility treating solely domestic wastewater.

"Municipal gross revenue" means gross receipts from monthly, bimonthly, and/or quarterly user charges for sewer services received from all classes of customers;

Included in these user charges are user charges and fees based on wastewater constituents' strengths and characteristics including high-strength surcharges and charges based on biochemical oxygen demand, suspended solids, oil and grease, toxicants, heavy metals, and flow, etc.

Municipal gross revenue includes charges for receipt and treatment of septic tank wastes, holding tank wastes, chemical toilet wastes, etc.

Municipal gross revenue includes all amounts received from other municipalities for sewage interception, treatment, collection, or disposal.

Gross revenue excludes:

Amounts derived by municipalities directly from taxes levied for the support or maintenance of sewer services.

Late charges, penalties for nontimely payment by customers, interest on late payments, and all other penalties and fines.

Permit fees and compliance monitoring fees for wastewater discharge permits issued by municipalities with local pretreatment programs. Permit fees which are charged to cover the cost of providing sewer service are not excluded from municipal gross revenue.

Receipts by a municipality of special assessments or installments thereof and interests and penalties thereon, and charges in lieu of assessments.

Connection charges.

Revenues from sales of by-products such as sludge, processed wastewater, etc.

"Municipality" means a city, town, county, district, association, or other public body created by or in accordance with state law and that has jurisdiction over disposal of sewage, industrial wastes, or other wastes, or an Indian tribe or an authorized Indian tribal organization, or a designated and approved management agency under 33 U.S.C. Sec. 1288. State government agencies are not included in this definition.

"Noncontact cooling water with additives" means water used for cooling that comes into contact with corrosives.

"Noncontact cooling water without additives" means water used for cooling that does not come into direct contact with any raw material, intermediate product, waste product or finished product, and which does not contain chemicals

added by the permittee. The noncontact cooling water fee without additives category applies to those facilities which discharge only noncontact cooling water and which have no other wastewater discharges required to be permitted under RCW 90.48.160, 90.48.162, and 90.48.260.

"Nonferrous metals forming" means the manufacturing of semifinished products from pure metal or metal alloys other than iron or steel or of metals not otherwise classified in WAC 173-224-040(2).

"Nonoperating aggregate site" means a location where previous mining or processing has occurred; that has not been fully reclaimed; that has no current mining or processing, and that may include stockpiles of raw materials or finished products. The permittee may add or withdraw raw materials or finished products from the stockpiles for transportation offsite for processing, use, or sale and still be considered a nonoperating site. This definition can be found in ecology's *National Pollutant Discharge Elimination System and State Waste Discharge Permit for Process Water, Storm Water, and Mine Dewatering Water Discharges Associated with Sand and Gravel Operations, Rock Quarries and Similar Mining Facilities including Stockpiles of Mined Materials, Concrete Batch Operations and Asphalt Batch Operations.*

"NPDES permit" means a National Pollutant Discharge Elimination System permit issued by the department under Section 402 of the federal Clean Water Act and RCW 90.48.260.

"Person" means any political subdivision, government agency, municipality, industry, public or private corporation, partnership, association, firm, individual, or any other entity whatever.

"Portable facility" means a facility that is designed for mobility and is moved from site to site for short term operations. A portable facility applies only to an asphalt batch plant, portable concrete batch plant and portable rock crusher.

"RCRA" means Resource Conservation Recovery Act clean up sites required to have a wastewater discharge permit resulting from a corrective action under relevant federal authorities or under chapters 70.105 and 70.105D RCW including chapters 173-303 and 173-340 WAC, and are not subject to cost recovery.

"Residential equivalent" means a single-family residence or a unit of sewer service that yields an amount of gross revenue equal to the annual user charge for a single-family residence. In cases where the permit holder does not maintain data on gross revenue, user charges, and/or the number of single-family residences that it serves, "residential equivalent" means an influent flow of two hundred fifty gallons per day.

"Sewer service" means the activity of receiving sewage deposited into and carried off by a system of sewers, drains, and pipes to a common point, or points, for disposal or for transfer to treatment for disposal, and activities involving the interception, transfer, storage, treatment, and/or disposal of sewage, or any of these activities.

"State waste discharge permit" means a permit required under RCW 98.48.260.

"Storm water" means an industrial operation or construction activity discharging storm water runoff as defined in 40 CFR 122.26 (b)(14) or facilities that are permitted as a significant contributor of pollutants as allowed in the federal Clean Water Act at Section 402 (p)(2)(E).

"Tons/yr." means the total production from an asphalt production facility in tons during the most recent completed calendar year.

"Vegetable/bulb washing" means the washing, packing, and shipping of fresh vegetables and bulbs when there is no cooking or cutting of the product before packing.

[Statutory Authority: Chapter 90.48 RCW. 00-02-031 (Order 99-03), § 173-224-030, filed 12/28/99, effective 1/28/00; 98-03-046 (Order 97-27), § 173-224-030, filed 1/15/98, effective 2/15/98; 94-10-027 (Order 93-08), § 173-224-030, filed 4/28/94, effective 5/29/94; 92-03-131 (Order 91-45), § 173-224-030, filed 1/21/92, effective 2/21/92. Statutory Authority: Chapter 43.21A RCW. 89-12-027 and 90-07-015 (Order 89-8 and 89-8A), § 173-224-030, filed 5/31/89 and 3/13/90, effective 4/13/90.]

WAC 173-224-040 Permit fee schedule. (1) Application fee. In addition to the annual fee, first time applicants (except those applying for coverage under a general permit) will pay a one time application fee of twenty-five percent of the annual permit fee, or $250.00, whichever is greater. An application fee will be assessed for RCRA sites regardless of whether a new permit is being issued or an existing permit for other than the discharge resulting from the RCRA corrective action, is being modified.

(2) Industrial facility categories.

INDUSTRIAL FACILITY CATEGORIES	FY 2000 ANNUAL PERMIT FEE	FY 2001 ANNUAL PERMIT FEE	*FY 2002 ANNUAL PERMIT FEE AND BEYOND
Aluminum Alloys	$12,229.00	$12,580.00	$12,915.00
Aluminum and Magnesium Reduction Mills			
a. NPDES Permit	72,117.00	74,187.00	76,160.00
b. State Permit	36,060.00	37,095.00	38,082.00
Aluminum Forming	36,687.00	37,740.00	38,744.00
Aggregate Production - Individual Permit Coverage			
a. Mining Activities			
1. Mining, screening, washing and/or crushing	2,105.00	2,165.00	2,223.00
2. Nonoperating aggregate site (fee per site)	87.00	89.00	91.00
b. Asphalt Production			
1. 0 - < 50,000 tons/yr.	877.00	902.00	926.00
2. 50,000 - < 300,000 tons/yr.	2,105.00	2,162.00	2,220.00

INDUSTRIAL FACILITY CATEGORIES	FY 2000 ANNUAL PERMIT FEE	FY 2001 ANNUAL PERMIT FEE	*FY 2002 ANNUAL PERMIT FEE AND BEYOND
3. 300,000 tons/yr. and greater	2,631.00	2,707.00	2,779.00
c. Concrete Production			
1. 0 - < 25,000 cu. yds/yr.	877.00	902.00	926.00
2. 25,000 - < 200,000 cu. yds/yr.	2,105.00	2,162.00	2,220.00
3. 200,000 cu. yds/yr. and greater	2,631.00	2,707.00	2,779.00
The fee for a facility in the aggregate production category is the sum of the applicable fees in the mining activities and concrete and asphalt production categories.			
d. Portable Facilities			
1. Portable Rock Crushing Operations	2,105.00	2,165.00	2,223.00
2. Asphalt Portable Batch Plant	2,105.00	2,165.00	2,223.00
3. Concrete Portable Batch Plant	2,105.00	2,165.00	2,223.00
Aggregate Production - General Permit Coverage			
a. Mining Activities			
1. Mining, screening, washing and/or crushing	1,473.00	1,515.00	1,555.00
2. Nonoperating aggregate site (fee per site)	61.00	63.00	65.00
b. Asphalt Production			
1. 0 - < 50,000 tons/yr.	614.00	632.00	649.00
2. 50,000 - < 300,000 tons/yr.	1,474.00	1,516.00	1,556.00
3. 300,000 tons/yr. and greater	1,841.00	1,894.00	1,944.00
c. Concrete Production			
1. 0 - < 25,000 cu. yds/yr.	614.00	632.00	649.00
2. 25,000 - < 200,000 cu. yds/yr.	1,474.00	1,516.00	1,556.00
3. 200,000 cu. yds/yr. and greater	1,841.00	1,894.00	2,971.00
The fee for a facility in the aggregate production category is the sum of the applicable fees in the mining activities and concrete and asphalt production categories.			
d. Portable Facilities			
1. Portable Rock Crushing Operations	1,474.00	1,516.00	1,556.00
2. Asphalt Portable Batch Plant	1,474.00	1,516.00	1,556.00
3. Concrete Portable Batch Plant	1,474.00	1,516.00	1,556.00
Aquaculture			
a. Finfish hatching and rearing - Individual Permit	3,669.00	3,774.00	3,874.00
b. Finfish hatching and rearing - General Permit Coverage	2,569.00	2,643.00	2,713.00
c. Shellfish hatching	126.00	130.00	133.00
Boat Yards - Individual Permit Coverage			
a. With storm water only discharge	313.00	322.00	331.00
b. All others	627.00	645.00	662.00
Boat Yards - General Permit Coverage			
a. With storm water only discharge	219.00	225.00	231.00
b. All others	439.00	452.00	464.00
Coal Mining and Preparation			
a. < 200,000 tons per year	4,890.00	5,030.00	5,164.00
b. 200,000 - < 500,000 tons per year	11,007.00	11,323.00	11,624.00
c. 500,000 - < 1,000,000 tons per year	19,565.00	20,127.00	20,662.00
d. 1,000,000 tons per year and greater	36,687.00	37,740.00	38,743.00
Combined Industrial Waste Treatment			
a. < 10,000 gpd	2,446.00	2,516.00	2,583.00
b. 10,000 - < 50,000 gpd	6,114.00	6,289.00	6,456.00
c. 50,000 - < 100,000 gpd	12,229.00	12,580.00	12,914.00
d. 100,000 - < 500,000 gpd	24,458.00	25,160.00	25,829.00
e. 500,000 gpd and greater	36,687.00	37,740.00	38,744.00
Combined Food Processing Waste Treatment Facilities	11,708.00	12,044.00	12,364.00
Combined Sewer Overflow System			
a. < 50 acres	2,446.00	2,516.00	2,583.00
b. 50 - < 100 acres	6,114.00	6,289.00	6,456.00
c. 100 - < 500 acres	7,339.00	7,550.00	7,751.00

INDUSTRIAL FACILITY CATEGORIES	FY 2000 ANNUAL PERMIT FEE	FY 2001 ANNUAL PERMIT FEE	*FY 2002 ANNUAL PERMIT FEE AND BEYOND
d. 500 acres and greater	9,783.00	10,064.00	10,332.00
Commercial Laundry	313.00	322.00	
Concentrated Animal Feeding Operation			
a. < 200 Animal Units	125.00	129.00	132.00
b. 200 - < 400 Animal Units	313.00	322.00	331.00
c. 400 - < 600 Animal Units	627.00	645.00	662.00
d. 600 - < 800 Animal Units	940.00	967.00	993.00
e. 800 Animal Units and greater	1,254.00	1,290.00	1,324.00
Crop Preparing - Individual Permit Coverage			
a. 0 - < 1,000 bins/yr.	244.00	251.00	258.00
b. 1,000 - < 5,000 bins/yr.	489.00	503.00	516.00
c. 5,000 - < 10,000 bins/yr.	978.00	1,006.00	1,033.00
d. 10,000 - < 15,000 bins/yr.	1,958.00	2,014.00	2,068.00
e. 15,000 - < 20,000 bins/yr.	3,239.00	3,332.00	2,421.00
f. 20,000 - < 25,000 bins/yr.	4,524.00	4,654.00	4,778.00
g. 25,000 - < 50,000 bins/yr.	6,052.00	6,226.00	6,392.00
h. 50,000 - < 75,000 bins/yr.	6,726.00	6,919.00	7,103.00
i. 75,000 - < 100,000 bins/yr.	7,825.00	8,050.00	8,264.00
j. 100,000 - < 125,000 bins/yr.	9,783.00	10,064.00	10,332.00
k. 125,000 - < 150,000 bins/yr.	12,229.00	12,580.00	12,915.00
l. 150,000 bins/yr. and greater	14,675.00	15,096.00	15,498.00
Crop Preparing - General Permit Coverage			
a. 0 - < 1,000 bins/yr.	170.00	175.00	180.00
b. 1,000 - < 5,000 bins/yr.	342.00	352.00	362.00
c. 5,000 - < 10,000 bins/yr.	685.00	705.00	724.00
d. 10,000 - < 15,000 bins/yr.	1,371.00	1,410.00	1,448.00
e. 15,000 - < 20,000 bins/yr.	2,268.00	2,333.00	2,395.00
f. 20,000 - < 25,000 bins/yr.	3,167.00	3,258.00	3,345.00
g. 25,000 - < 50,000 bins/yr.	4,236.00	4,358.00	4,474.00
h. 50,000 - < 75,000 bins/yr.	4,708.00	4,843.00	4,972.00
i. 75,000 - < 100,000 bins/yr.	5,478.00	5,635.00	5,786.00
j. 100,000 - < 125,000 bins/yr.	6,848.00	7,045.00	7,232.00
k. 125,000 - < 150,000 bins/yr.	8,560.00	8,806.00	9,040.00
l. 150,000 bins/yr. and greater	10,272.00	10,567.00	10,848.00
Dairies $.50 per Animal Unit not to exceed $878.00 for FY 2000, $903.00 for FY 2001 and 927.00 for FY 2002			
Facilities Not Otherwise Classified - Individual Permit Coverage			
a. < 1,000 gpd	1,223.00	1,258.00	1,291.00
b. 1,000 - < 10,000 gpd	2,446.00	2,516.00	2,583.00
c. 10,000 - < 50,000 gpd	6,114.00	6,290.00	6,457.00
d. 50,000 - < 100,000 gpd	9,783.00	10,064.00	10,332.00
e. 100,000 - < 500,000 gpd	19,565.00	20,027.00	20,560.00
f. 500,000 - < 1,000,000 gpd	24,457.00	25,159.00	25,828.00
g. 1,000,000 gpd and greater	36,687.00	37,740.00	38,744.00
Facilities Not Otherwise Classified - General Permit Coverage			
a. < 1,000 gpd	857.00	882.00	905.00
b. 1,000 - < 10,000 gpd	1,712.00	1,761.00	1,808.00
c. 10,000 - < 50,000 gpd	4,281.00	4,404.00	4,521.00
d. 50,000 - < 100,000 gpd	6,848.00	7,045.00	7,232.00
e. 100,000 - < 500,000 gpd	13,695.00	14,088.00	14,463.00
f. 500,000 - < 1,000,000 gpd	17,120.00	17,611.00	18,079.00
g. 1,000,000 gpd and greater	25,681.00	26,418.00	27,121.00
Flavor Extraction			
a. Steam Distillation	125.00	129.00	132.00
Food Processing			
a. < 1,000 gpd	1,222.00	1,257.00	1,290.00
b. 1,000 - < 10,000 gpd	3,118.00	3,207.00	3,292.00

INDUSTRIAL FACILITY CATEGORIES	FY 2000 ANNUAL PERMIT FEE	FY 2001 ANNUAL PERMIT FEE	*FY 2002 ANNUAL PERMIT FEE AND BEYOND
c. 10,000 - < 50,000 gpd	5,564.00	5,724.00	5,876.00
d. 50,000 - < 100,000 gpd	8,743.00	8,994.00	9,232.00
e. 100,000 - < 250,000 gpd	12,229.00	12,580.00	12,915.00
f. 250,000 - < 500,000 gpd	16,081.00	16,543.00	16,983.00
g. 500,000 - < 750,000 gpd	20,177.00	20,756.00	21,308.00
h. 750,000 - < 1,000,000 gpd	24,457.00	25,159.00	28,528.00
i. 1,000,000 - < 2,500,000 gpd	29,961.00	30,821.00	31,641.00
j. 2,500,000 - < 5,000,000 gpd	33,629.00	34,594.00	35,514.00
k. 5,000,000 gpd and greater	36,687.00	37,740.00	38,744.00
Fuel and Chemical Storage			
a. < 50,000 bbls	1,223.00	1,258.00	1,291.00
b. 50,000 - < 100,000 bbls	2,446.00	2,516.00	2,583.00
c. 100,000 - < 500,000 bbls	6,114.00	6,289.00	6,456.00
d. 500,000 bbls and greater	12,229.00	12,580.00	12,915.00
Hazardous Waste Clean Up Sites			
a. Leaking Underground Storage Tanks (LUST)			
1. State Permit	3,208.00	3,300.00	3,388.00
2. NPDES Permit Issued pre 7/1/94	3,208.00	3,300.00	3,338.00
3. NPDES Permit Issued post 7/1/94	6,415.00	6,599.00	6,775.00
b. Non-LUST Sites			
1. 1 or 2 Contaminants of concern	6,272.00	6,452.00	6,624.00
2. > 2 Contaminants of concern	12,542.00	12,902.00	13,245.00
Ink Formulation and Printing			
a. Commercial Print Shops	1,881.00	1,935.00	1,986.00
b. Newspapers	3,136.00	3,226.00	3,312.00
c. Box Plants	5,017.00	5,161.00	5,298.00
d. Ink Formulation	6,272.00	6,452.00	6,624.00
Inorganic Chemicals Manufacturing			
a. Lime Products	6,114.00	6,289.00	6,456.00
b. Fertilizer	7,361.00	7,572.00	7,773.00
c. Peroxide	9,783.00	10,064.00	10,332.00
d. Alkaline Earth Salts	12,229.00	12,580.00	12,915.00
e. Metal Salts	17,119.00	17,610.00	18,078.00
f. Acid Manufacturing	24,457.00	25,159.00	25,829.00
g. Chlor-alkali	48,916.00	50,320.00	51,659.00
Iron and Steel			
a. Foundries	12,229.00	12,580.00	12,915.00
b. Mills	24,479.00	25,181.00	25,851.00
Metal Finishing			
a. < 1,000 gpd	1,466.00	1,508.00	1,548.00
b. 1,000 - < 10,000 gpd	2,445.00	2,515.00	2,582.00
c. 10,000 - < 50,000 gpd	6,113.00	6,288.00	6,455.00
d. 50,000 - < 100,000 gpd	12,228.00	12,579.00	12,914.00
e. 100,000 - < 500,000 gpd	24,456.00	25,158.00	25,827.00
f. 500,000 gpd and greater	36,685.00	37,738.00	38,742.00
Noncontact Cooling Water With Additives - Individual Permit Coverage			
a. < 1,000 gpd	765.00	787.00	808.00
b. 1,000 - < 10,000 gpd	1,528.00	1,572.00	1,614.00
c. 10,000 - < 50,000 gpd	2,294.00	2,360.00	2,423.00
d. 50,000 - < 100,000 gpd	5,351.00	5,505.00	5,651.00
e. 100,000 - < 500,000 gpd	9,171.00	9,434.00	9,685.00
f. 500,000 - < 1,000,000 gpd	12,995.00	13,368.00	13,724.00
g. 1,000,000 - < 2,500,000 gpd	16,816.00	17,299.00	17,759.00
h. 2,500,000 - < 5,000,000 gpd	20,634.00	21,226.00	21,791.00
i. 5,000,000 gpd and greater	24,457.00	25,159.00	25,828.00

INDUSTRIAL FACILITY CATEGORIES	FY 2000 ANNUAL PERMIT FEE	FY 2001 ANNUAL PERMIT FEE	*FY 2002 ANNUAL PERMIT FEE AND BEYOND
Noncontact Cooling Water With Additives - General Permit Coverage			
a. < 1,000 gpd	536.00	552.00	567.00
b. 1,000 - < 10,000 gpd	1,069.00	1,100.00	1,129.00
c. 10,000 - < 50,000 gpd	1,606.00	1,652.00	1,696.00
d. 50,000 - < 100,000 gpd	3,746.00	3,854.00	3,957.00
e. 100,000 - < 500,000 gpd	6,420.00	6,604.00	6,780.00
f. 500,000 - < 1,000,000 gpd	9,097.00	9,358.00	9,607.00
g. 1,000,000 - < 2,500,000 gpd	11,771.00	12,109.00	12,431.00
h. 2,500.000 - < 5,000,000 gpd	14,444.00	14,858.00	15,253.00
i. 5,000,000 gpd and greater	17,120.00	17,611.00	18,079.00
Noncontact Cooling Water Without Additives - Individual Permit Coverage			
a. < 1,000 gpd	612.00	630.00	647.00
b. 1,000 - < 10,000 gpd	1,223.00	1,258.00	1,291.00
c. 10,000 - < 50,000 gpd	1,835.00	1,888.00	1,938.00
d. 50,000 - < 100,000 gpd	4,281.00	4,404.00	4,521.00
e. 100,000 - < 500,000 gpd	7,339.00	7,550.00	7,751.00
f. 500,000 - < 1,000,000 gpd	10,394.00	10,692.00	10,981.00
g. 1,000,000 - < 2,500,000 gpd	13,452.00	13,838.00	14,206.00
h. 2,500,000 - < 5,000,000 gpd	16,508.00	16,982.00	17,434.00
i. 5,000,000 gpd and greater	19,565.00	20,127.00	20,662.00
Noncontact Cooling Water Without Additives - General Permit Coverage			
a. < 1,000 gpd	428.00	441.00	453.00
b. 1,000 - < 10,000 gpd	857.00	882.00	905.00
c. 10,000 - < 50,000 gpd	1,284.00	1,321.00	1,356.00
d. 50,000 - < 100,000 gpd	2,996.00	3,082.00	3,164.00
e. 100,000 - < 500,000 gpd	5,137.00	5,284.00	5,425.00
f. 500,000 - < 1,000,000 gpd	7,276.00	7,485.00	7,684.00
g. 1,000,000 - < 2,500,000 gpd	9,417.00	9,687.00	9,945.00
h. 2,500,000 - < 5,000,000 gpd	11,556.00	11,888.00	12,204.00
i. 5,000,000 gpd and greater	13,695.00	14,088.00	14,623.00
Nonferrous Metals Forming	12,229.00	12,580.00	12,915.00
Ore Mining			
a. Ore Mining	2,446.00	2,516.00	2,583.00
b. Ore mining with physical concentration processes	4,891.00	5,031.00	5,165.00
c. Ore mining with physical and chemical concentration processes	19,565.00	20,127.00	20,662.00
Organic Chemicals Manufacturing			
a. Fertilizer	12,229.00	12,580.00	12,915.00
b. Aliphatic	24,457.00	25,159.00	25,828.00
c. Aromatic	36,687.00	37,740.00	38,744.00
Petroleum Refining			
a. < 10,000 bbls/d	24,457.00	25,159.00	25,828.00
b. 10,000 - < 50,000 bbls/d	48,916.00	50,320.00	51,659.00
c. 50,000 bbls/d and greater	97,835.00	100,643.00	103,320.00
Photofinishers			
a. < 1,000 gpd	978.00	1,006.00	1,034.00
b. 1,000 gpd and greater	2,446.00	2,516.00	2,583.00
Power and/or Steam Plants			
a. Steam Generation - Nonelectric	4,890.00	5,030.00	5,164.00
b. Hydroelectric	4,890.00	5,030.00	5,164.00
c. Nonfossil Fuel	7,338.00	7,549.00	7,750.00
d. Fossil Fuel	19,565.00	20,127.00	20,662.00
Pulp, Paper and Paper Board			
a. Fiber Recyclers	12,228.00	12,579.00	12,914.00
b. Paper Mills	24,457.00	25,159.00	25,828.00

INDUSTRIAL FACILITY CATEGORIES	FY 2000 ANNUAL PERMIT FEE	FY 2001 ANNUAL PERMIT FEE	*FY 2002 ANNUAL PERMIT FEE AND BEYOND
c. Groundwood Pulp Mills			
1. < 300 tons per day	36,687.00	37,740.00	38,744.00
2. > 300 tons per day	73,373.00	75,479.00	77,487.00
d. Chemical Pulp Mills w/o Chlorine Bleaching	97,829.00	100,637.00	103,314.00
e. Chemical Pulp Mills w/Chlorine Bleaching	110,057.00	113,216.00	116,228.00
Radioactive Effluents and Discharges (RED)			
a. < 3 waste streams	23,674.00	24,353.00	25,001.00
b. 3 - < 8 waste streams	41,087.00	42,266.00	43,390.00
c. 8 waste streams and greater	67,672.00	69,614.00	71,466.00
RCRA Corrective Action Sites	17,189.00	17,682.00	18,152.00
Seafood Processing			
a. < 1,000 gpd	1,223.00	1,258.00	1,291.00
b. 1,000 - < 10,000 gpd	3,118.00	3,207.00	3,292.00
c. 10,000 - < 50,000 gpd	5,564.00	5,724.00	5,876.00
d. 50,000 - < 100,000 gpd	8,743.00	8,994.00	9,233.00
e. 100,000 gpd and greater	12,229.00	12,580.00	12,915.00
Shipyards			
a. Per crane, travel lift, small boat lift	2,446.00	2,516.00	2,583.00
b. Per drydock under 250 ft in length	2,446.00	2,516.00	2,583.00
c. Per graving dock	2,446.00	2,516.00	2,583.00
d. Per marine way	3,669.00	3,774.00	3,874.00
e. Per sycrolift	3,669.00	3,774.00	3,874.00
f. Per drydock over 250 ft in length	4,891.00	5,031.00	5,165.00
The fee for a facility in the shipyard category is the sum of the fees for the applicable units in the facility.			
Solid Waste Sites (nonstorm water)			
a. Nonputrescible	4,891.00	5,031.00	5,165.00
b. < 50 acres	9,783.00	10,063.00	10,331.00
c. 50 - < 100 acres	19,565.00	20,127.00	20,662.00
d. 100 - < 250 acres	24,457.00	25,159.00	25,828.00
e. 250 acres and greater	36,687.00	37,740.00	38,744.00
Storm Water (Unless specifically categorized elsewhere.)			
a. Individual Industrial Permits			
1. < 50 acres	2,446.00	2,516.00	2,583.00
2. 50 - < 100 acres	4,891.00	5,031.00	5,165.00
3. 100 - < 500 acres	7,338.00	7,549.00	7,750.00
4. 500 acres and greater	9,783.00	10,064.00	10,332.00
b. Facilities covered under the Industrial Storm Water General Permit	325.00	334.00	343.00
c. Construction activities covered under the Industrial Storm Water General Permit	325.00	334.00	343.00
Textile Mills	48,916.00	50,320.00	51,659.00
Timber Products			
a. Log Storage	2,446.00	2,516.00	2,583.00
b. Veneer	4,891.00	5,031.00	5,165.00
c. Sawmills	9,783.00	10,064.00	10,332.00
d. Hardwood, Plywood	17,119.00	17,610.00	18,078.00
e. Wood Preserving	24,457.00	24,159.00	24,802.00
Vegetable/Bulb Washing Facilities			
a. < 1,000 gpd	81.00	83.00	85.00
b. 1,000 - < 5,000 gpd	162.00	167.00	171.00
c. 5,000 - < 10,000 gpd	322.00	331.00	340.00
d. 10,000 - < 20,000 gpd	648.00	667.00	685.00
e. 20,000 and greater	1,072.00	1,103.00	1,132.00

INDUSTRIAL FACILITY CATEGORIES	FY 2000 ANNUAL PERMIT FEE	FY 2001 ANNUAL PERMIT FEE	*FY 2002 ANNUAL PERMIT FEE AND BEYOND
Vehicle Maintenance and Freight Transfer			
a. < 0.5 acre	2,446.00	2,516.00	2,583.00
b. 0.5 - < 1.0 acre	4,891.00	5,031.00	5,165.00
c. 1.0 acre and greater	7,338.00	7,549.00	7,750.00
Water Plants - Individual Permit Coverage	3,058.00	3,146.00	3,230.00
Water Plants - General Permit Coverage	2,141.00	2,202.00	2,261.00
Wineries			
a. < 500 gpd	250.00	257.00	
b. 500 - < 750 gpd	501.00	515.00	518.00
c. 750 - < 1,000 gpd	1,001.00	1,030.00	
d. 1,000 - < 2,500 gpd	2,001.00	2,058.00	2,113.00
e. 2,500 - < 5,000 gpd	3,191.00	3,283.00	3,370.00
f. 5,000 gpd and greater	4,380.00	4,506.00	4,626.00

* Fees for FY 2002 are based on the projected fiscal growth factor of 2.66% established by the governor's office of financial management. Ecology will increase fees to match the final fiscal growth factor determination and will directly notify permit holders of their fee assessment no later than March, 2001.

(a) Facilities other than those in the aggregate production, crop preparing, shipyard, or RCRA categories that operate within several fee categories or subcategories, shall be charged from that category or subcategory with the highest fee.

(b) The total annual permit fee for a water treatment plant that primarily serves residential customers may not exceed three dollars per residential equivalent. The number of residential equivalents is determined by dividing the facility's annual gross revenue in the previous calendar year by the annual user charge for a single family residence that uses nine hundred cubic feet of water per month.

(c) Crop preparation and aggregate production permit holders are required to submit information to the department certifying annual production (calendar year) or unit processes. When required, the department will send the information form to the permit holder. The permit holder shall complete and return the information form to the department by the required due date. Failure to provide this information will result in a fee determination based on the highest subcategory the facility has received permit coverage in.

(i) Information submitted shall bear a certification of correctness and be signed:

(A) In the case of a corporation, by an authorized corporate officer;

(B) In the case of a limited partnership, by an authorized general partner;

(C) In the case of a general partnership, by an authorized partner; or

(D) In the case of a sole proprietorship, by the proprietor.

(ii) The department may verify information submitted and, if it determines that false or inaccurate statements have been made, it may, in addition to taking other actions provided by law, revise both current and previously granted fee determinations.

(d) Fees for crop preparers discharging only noncontact cooling water without additives shall pay the lesser of the applicable fee in the crop preparing or noncontact cooling water without additives categories.

(e) Where no clear industrial facility category exists for placement of a permit holder, the department may elect to place the permit holder in a category with dischargers or permit holders that contain or use similar properties or processes and/or a category which contains similar permitting complexities to the department.

(f) Hazardous waste clean up sites and EPA authorized RCRA corrective action sites with whom the department has begun cost recovery through chapter 70.105D RCW shall not pay a permit fee under chapter 173-224 WAC until such time as the cost recovery under chapter 70.105D RCW ceases.

(g) Any permit holder, with the exception of nonoperating aggregate operations or a permitted portable facility, who has not been in continuous operation within a consecutive eighteen-month period or who commits to not being in operation for a consecutive eighteen-month period or longer can have their permit fee reduced to twenty-five percent of the fee that they would be otherwise assessed. This nonoperating mode must be verified by the appropriate ecology staff. Once operations resume, the permit fee will be returned to the full amount.

Facilities who commit to the minimum eighteen-month nonoperating mode but go back into operation during the same eighteen-month period will be assessed permit fees as if they were active during the entire period.

(h) Facilities with subcategories based on gallons per day (gpd) shall have their annual permit fee determined by using the maximum daily flow or maximum monthly average permitted flow in gallons per day as specified in the waste discharge permit, whichever is greater.

(i) RCRA corrective action sites requiring a waste discharge permit will be assessed a separate permit fee regardless of whether the discharge is authorized by a separate permit or by a modification to an existing permit for a discharge other than that resulting from the corrective action.

(3) MUNICIPAL/DOMESTIC FACILITIES

(a) The annual permit fee for a permit held by a municipality for a domestic wastewater facility issued under RCW 90.48.162 or 90.48.260 is determined as follows:

(i) Residential Equivalents (RE)	FY 2000 Annual Permit Fee	FY 2001 Annual Permit Fee	*FY 2002 Annual Permit Fee and Beyond
< 250,000	$ 1.51 per RE	$ 1.55 per RE	$ 1.59 per RE
> 250,000	.91 per RE	.94 per RE	.97 per RE

* Fees for FY 2002 are based on the projected fiscal growth factor of 2.66% established by the governor's office of financial management. Ecology will increase fees to match the final fiscal growth factor determination and will directly notify permit holders of their fee assessment no later than March, 2001.

(ii) Municipal storm water permit annual fee for only those entities listed below will be:

Name of Entity	FY 2000 Annual Permit Fee	FY 2001 Annual Permit Fee	*FY 2002 Annual Permit Fee and Beyond
King County	$ 27,856.00	$ 28,655.00	$29,417.00
Snohomish County	27,856.00	28,655.00	29,417.00
Pierce County	27,856.00	28,655.00	29,417.00
Tacoma, City of	27,856.00	28,655.00	29,417.00
Seattle, City of	27,856.00	28,655.00	29,417.00
Department of Transportation	27,856.00	28,655.00	29,417.00
Clark County	27,856.00	28,655.00	29,417.00

* Fees for FY 2002 are based on the projected fiscal growth factor of 2.66% established by the governor's office of financial management. Ecology will increase fees to match the final fiscal growth factor determination and will directly notify permit holders of their fee assessment no later than March, 2001.

Facilities listed in (a)(ii) of this subsection shall pay an annual fee for fiscal year 2000 and fiscal year 2001 regardless of the permit issuance date or the number of municipal storm water permits under which they are covered.

(b) The annual permit fee under RCW 90.48.162 or 90.48.260 that is held by a municipality which:

(i) Holds more than one permit for domestic wastewater facilities; and

(ii) Treats each domestic wastewater facility as a separate accounting entity, is determined as in (a) of this subsection.

A separate accounting entity is one that maintains separate funds or accounts for each domestic wastewater facility. Revenues are received from the users to pay for the costs of operating that facility.

(c) The sum of the annual permit fees for permits held by a municipality that:

(i) Holds more than one permit for domestic wastewater facilities issued under RCW 90.48.162 or 90.48.260; and

(ii) Does not treat each domestic wastewater facility as a separate accounting entity, as described in (b) of this subsection, is determined as in (a) of this subsection.

(d) The permit fee for a privately-owned domestic wastewater facility that primarily serves residential customers is determined as in (a) of this subsection. Residential customers are those whose lot, parcel or real estate, or building is primarily used for domestic dwelling purposes.

(e) The annual permit fee for privately owned domestic wastewater facilities must be determined by using the maximum daily flow or maximum monthly average permitted flow in million gallons per day, whichever is greater, as specified in the waste discharge permit. Permit fees for privately-owned domestic wastewater facilities that do not serve primarily residential customers and for state-owned domestic wastewater facilities are the following:

Permitted Flows	FY 2000 Annual Permit Fee	FY 2001 Annual Permit Fee	*FY 2002 Annual Permit Fee and Beyond
.1 MGD and Greater	$6,114.00	$6,289.00	$6,456.00
.05 MGD to < .1 MGD	2,446.00	2,516.00	2,583.00
.0008 MGD to < .05 MGD	1,223.00	1,258.00	1,291.00
< .0008 MGD	367.00	378.00	388.00

* Fees for FY 2002 are based on the projected fiscal growth factor of 2.66% established by the governor's office of financial management. Ecology will increase fees to match the final fiscal growth factor determination and will directly notify permit holders of their fee assessment no later than March, 2001.

(f) The number of residential equivalents is calculated in the following manner:

(i) If the facility serves only single-family residences, the number of residential equivalents is the number of single-family residences that it served on January 1 of the previous calendar year.

(ii) If the facility serves both single-family residences and other classes of customers, the number of residential equivalents is calculated in the following manner:

(A) Calculation of the number of residential equivalents that the facility serves in its own service area. Subtract from the previous calendar year's gross revenue:

(I) Any amounts received from other municipalities for sewage interception, treatment, collection, or disposal; and

(II) Any user charges received from customers for whom the permit holder pays amounts to other municipalities for sewage treatment or disposal services. Divide the resulting figure by the annual user charge for a single-family residence.

(B) Calculation of the number of residential equivalents that the facility serves in other municipalities which pay amounts to the facility for sewage interception, treatment, collection, or disposal:

(I) Divide any amounts received from other municipalities during the previous calendar year by the annual user charge for a single-family residence. In this case "annual user charge for a single-family residence" means the annual user charge that the facility charges other municipalities for sewage interception, treatment, collection, or disposal services

for a single-family residence. If the facility charges different municipalities different single-family residential user fees, then the charge used in these calculations must be that which applies to the largest number of single-family residential customers. Alternatively, if the facility charges different municipalities different single-family residential user fees, the permit holder may divide the amount received from each municipality by the annual user charge that it charges that municipality for a single-family residence and sum the resulting figures.

(II) If the facility does not charge the other municipality on the basis of a fee per single-family residence, the number of residential equivalents in the other municipality is calculated by dividing its previous calendar year's gross revenue by its annual user fee for a single-family residence. If the other municipality does not maintain data on its gross revenue, user fees, and/or the number of single-family residences that it serves, the number of residential equivalents is calculated as in (f)(iv) of this subsection.

(III) If the other municipality serves only single-family residences, the number of residential equivalents may be calculated as in (f)(i) of this subsection.

The sum of the resulting figures is the number of residential equivalents that the facility serves in other municipalities.

(C) The number of residential equivalents is the sum of the number of residential equivalents calculated in (f)(ii)(A) and (B) of this subsection.

(iii) The annual user fee for a single-family residence is calculated by either of the following methods, at the choice of the permit holder:

(A) The annual user fee for a single-family residence using nine hundred cubic feet of water per month. If users are billed monthly, this is calculated by multiplying by twelve the monthly user fee for a single-family residence using nine hundred cubic feet of water per month. If users are billed bimonthly, the annual user fee is calculated by multiplying by six the bimonthly user fee for a single-family residence using one thousand eight hundred cubic feet of water per two-month period. If the user fee for a single-family residence varies, depending on age, income, location, etc., then the fee used in these calculations must be that which applies to the largest number of single-family residential customers.

(B) The average annual user fee for a single-family residence. This average is calculated by dividing the previous calendar year's gross revenue from provision of sewer services to single-family residences by the number of single-family residences served on January 1 of the previous calendar year. If the user fee for a single-family residence varies, depending on age, income, location, etc., then the gross revenue and number of single-family residences used in making this calculation must be those for all the single-family residential customers.

In either case, (f)(iii)(A) or (B) of this subsection, the permit holder must provide the department with a copy of its complete sewer rate schedule for all classes of customers.

(iv) If a permit holder does not maintain data on its gross revenue, user fees, and/or the number of single-family residences that it serves, and therefore cannot use the methods described in (f)(i) or (ii) of this subsection to calculate the number of residential equivalents that it serves, then the number of residential equivalents that it serves is calculated by dividing the average daily influent flow to its facility for the previous calendar year by two hundred fifty gallons. This average is calculated by summing all the daily flow measurements taken during the previous calendar year and then dividing the resulting sum by the number of days on which flow was measured. Data for this calculation must be taken from the permit holder's discharge monitoring reports. Permit holders using this means of calculating the number of their residential equivalents must submit with their application a complete set of copies of their discharge monitoring reports for the previous calendar year.

(g) Fee calculation procedures for holders of permits for domestic wastewater facilities.

(i) Municipalities holding permits for domestic wastewater facilities issued under RCW 90.48.162 and 90.48.260, and holders of permits for privately-owned domestic wastewater facilities that primarily serve residential customers must complete a form certifying the number of residential equivalents served by their domestic wastewater system. The form must be completed and returned to the department within thirty days after it is mailed to the permit holder by the department. Failure to return the form could result in permit termination.

(ii) The form shall bear a certification of correctness and be signed:

(A) In the case of a corporation, by an authorized corporate officer;

(B) In the case of a limited partnership, by an authorized partner;

(C) In the case of a general partnership, by an authorized partner;

(D) In the case of a sole proprietorship, by the proprietor; or

(E) In the case of a municipal or other public facility, by either a ranking elected official or a principal executive officer.

(iii) The department may verify the information contained in the form and, if it determines that the permit holder has made false statements, may, in addition to taking other actions provided by law, revise both current and previously granted fee determinations.

[Statutory Authority: Chapter 90.48 RCW. 00-13-010 (Order 00-06), § 173-224-040, filed 6/9/00, effective 7/10/00; 00-02-031 (Order 99-03), § 173-224-040, filed 12/28/99, effective 1/28/00; 98-03-046 (Order 97-27), § 173-224-040, filed 1/15/98, effective 2/15/98; 96-03-041 (Order 94-21), § 173-224-040, filed 1/10/96, effective 2/10/96; 94-10-027 (Order 93-08), § 173-224-040, filed 4/28/94, effective 5/29/94; 92-03-131 (Order 91-45), § 173-224-040, filed 1/21/92, effective 2/21/92. Statutory Authority: Chapter 43.21A RCW. 89-12-027 and 90-07-015 (Order 89-8 and 89-8A), § 173-224-040, filed 5/31/89 and 3/13/90, effective 4/13/90.]

WAC 173-224-050 Permit fee computation and payments. (1) The department shall charge permit fees based on the permit fee schedule contained in WAC 173-224-040. The department may charge fees at the beginning of the year to which they apply. The department shall notify permit holders of fee charges by mailing billing statements. Permit fees must be received by the department within forty-five days after the department mails a billing statement. The department may

elect to bill permit holders a prorated portion of the annual fee on a monthly, quarterly, or other periodic basis.

(2) Permit fee computation for individual permits. Computation of permit fees shall begin on the first day of each fiscal year, or in the case of facilities or activities not previously covered by permits, on the issuance date of the permit. In the case of applicants for state waste discharge permits who are deemed to have a temporary permit under RCW 90.48.200, computation shall begin on the sixty-first day after the department accepts a completed application. In the case of NPDES permit holders who submit a new, updated permit application containing information that could change their assigned permit fee, computation and permit fee category reassignment begins upon acceptance of the application by the department. Any facility that obtains permit coverage but fails to operate will still be obligated to pay the annual permit fee assessment until the permit has been terminated by the department. Permits terminated during the fiscal year will have their fees prorated as follows unless it results in an annual fee assessment of less than one hundred dollars. Ecology will not process refunds of one hundred dollars or less:

(a) Permit coverage for up to three months will pay twenty-five percent of the annual permit fee;

(b) Permit coverage for three to six months will pay fifty percent of the annual permit fee;

(c) Permit coverage for six to nine months will pay seventy-five percent of the annual permit fee; and

(d) Permit coverage for nine months or greater will pay one hundred percent of the annual permit fee.

(3) Permit fee computation for general permits. Computation of fees for permittees covered under a general permit begins on the permit coverage date. Any facility that obtains permit coverage is obligated to pay the annual permit fee regardless of whether or not the facility has ever operated until the permit has been terminated by the department. Permits terminated during the fiscal year will have their fees prorated as described in subsection (2)(a), (b), (c) and (d) of this section unless it results in an annual fee assessment of less than one hundred dollars. Ecology will not process refunds of one hundred dollars or less.

(4) Permit fees for sand and gravel (aggregate) general permit holders will be assessed as in subsection (3) of this section and:

(a) Nonoperating aggregate sites. A facility conducting mining, screening, washing and/or crushing activities excluding portable rock crushing operations is considered nonoperating for fee purposes if they are conducting these activities for less than ninety cumulative days during a calendar year. A facility producing no asphalt and/or concrete during the calendar year is also considered nonoperating for fee purposes.

(b) Nonoperating sites that become active for only concrete and/or asphalt production will be assessed a prorated fee for the actual time inactive. For the actual time a concrete and/or asphalt facility is active excluding asphalt portable batch plants and concrete portable batch plants, fees will be based on total production of concrete and/or asphalt.

(c) Fees for continuously active sites that produce concrete and/or asphalt excluding asphalt portable batch plants and concrete portable batch plants, will be based on the average of the three previous calendar years production totals. Existing facilities must provide the department with the production totals for concrete and/or asphalt produced during the previous three calendar years or for the number of full calendar years of operation if less than three. New facilities with no historical asphalt and/or concrete production data will have their first year fee based on the production levels reported on the application for coverage under the National Pollutant Discharge Elimination System and State Waste Discharge Permit for Process Water, Storm Water, and Mine Dewatering Water Discharges Associated with Sand and Gravel Operations, Rock Quarries and Similar Mining Facilities including Stockpiles of Mined Materials, Concrete Batch Operations and Asphalt Batch Operations general permit. The second year fee will be determined based on the actual production during the first year and estimated production for the second year. The third year fee will be determined based on the average of actual production for the first two years and estimated for the third year. Fee calculation for subsequent years will be based on the average production values of previous years.

(d) Asphalt portable batch plants, concrete portable batch plants and portable rock crushing operations will be assessed fees as in subsection (3) of this section. Each permitted operation must commit to being shut down for a minimum of twelve calendar months before the status can be changed to nonoperating.

(5) Fees for crop preparation general permit holders will be assessed as in subsection (3) of this section and will be computed on the three previous calendar years production totals. Existing facilities must provide the department with the production totals in the manner described in WAC 173-224-040 (2)(d). New facilities with no historical production data will have their first year fee based on the estimated production level for that year. The second year fee will be determined based on the actual production during the first year and estimated production for the second year. The third year fee will be determined based on the average of actual production for the first two years and estimated for the third year. Fee calculation for subsequent years will be based on the average production values of previous years.

(6) Facilities with construction and industrial storm water general permit coverage will have their annual permit fees begin on the permit issuance date. Permit fee accrual will continue until the permit has been terminated by the department regardless if the activity covered under the permit has already ceased.

(7) Facilities with an existing NPDES and/or state wastewater discharge permit who also have obtained industrial and/or construction storm water general permit coverage shall only pay an annual fee based on the permit with the highest permit fee category assessment.

(8) Computation of fees shall end on the last day of the state's fiscal year, or in the case of a terminated permit, during the quarter the termination took place.

(9) The applicable permit fee shall be paid by check or money order payable to the "Department of Ecology" and mailed to the Wastewater Discharge Permit Fee Program, P.O. Box 5128, Lacey, Washington 98509-5128.

(10) In the event a check is returned due to insufficient funds, the department shall consider the permit fee to be unpaid.

(11) Delinquent accounts. Permit holders are considered delinquent in the payment of fees if the fees are not received by the first invoice billing due date. The department will notify the delinquent permit holder by certified letter of its intent to turn the delinquent account over to a collection agency. Permit holders will have thirty days from receipt of the certified letter to bring the account up-to-date before the department turns it over for collection. Any delinquent account turned over for collection will be assessed a surcharge totaling twenty percent of the delinquent amount owed. The surcharge assessment is to recover the costs for collection. If the collection agency fails to recover the delinquent fees after twelve months, the department will terminate the permit for nonpayment of fees.

[Statutory Authority: Chapter 90.48 RCW. 00-02-031 (Order 99-03), § 173-224-050, filed 12/28/99, effective 1/28/00; 98-03-046 (Order 97-27), § 173-224-050, filed 1/15/98, effective 2/15/98; 96-03-041 (Order 94-21), § 173-224-050, filed 1/10/96, effective 2/10/96; 94-10-027 (Order 93-08), § 173-224-050, filed 4/28/94, effective 5/29/94; 92-03-131 (Order 91-45), § 173-224-050, filed 1/21/92, effective 2/21/92. Statutory Authority: Chapter 43.21A RCW. 89-12-027 and 90-07-015 (Order 89-8 and 89-8A), § 173-224-050, filed 5/31/89 and 3/13/90, effective 4/13/90.]

WAC 173-224-060 Permits issued by other governmental agencies. The department shall not charge permit fees for:

(1) Permits issued by a city, town, or municipal corporation under RCW 90.48.165;

(2) Permits issued by the energy facilities site evaluation council under RCW 80.50.071;

(3) Permits administered by the EPA under 33 U.S.C. 1251 et seq.

Nothing herein shall restrict the department from charging fees to recover administrative expenses of permits it issues under RCW 90.48.160 for discharges into municipal sewer systems, nor for charging fees to recover administrative expenses related to monitoring compliance with delegated pretreatment programs.

[Statutory Authority: Chapter 43.21A RCW. 89-12-027 and 90-07-015 (Order 89-8 and 89-8A), § 173-224-060, filed 5/31/89 and 3/13/90, effective 4/13/90.]

WAC 173-224-080 Transfer of ownership or control. The department shall charge permit fees from the permit holder on record with the department. In the event that ownership or control of a permitted facility or activity is transferred, it shall not be the responsibility of the department to transfer funds between a new and previous permit holder, and the department shall not refund fee charges prospectively in the event of a transfer. Fees paid by a previous permit holder shall be deemed to satisfy the corresponding fee payment requirements of a new permit holder. Agreements between a new and previous permit holder are not binding on the department.

[Statutory Authority: Chapter 43.21A RCW. 89-12-027 and 90-07-015 (Order 89-8 and 89-8A), § 173-224-080, filed 5/31/89 and 3/13/90, effective 4/13/90.]

WAC 173-224-090 Small business fee reduction. A small business required to pay a permit fee under an industrial facility category may receive a reduction of its permit fee.

(1) To qualify for the fee reduction, a business must:

(a) Be a corporation, partnership, sole proprietorship, or other legal entity formed for the purpose of making a profit;

(b) Be independently owned and operated from all other businesses (i.e., not a subsidiary of a parent company);

(c) Have annual sales of one million dollars or less of the goods or services produced using the processes regulated by the waste discharge permit; and

(d) Pay an annual wastewater discharge permit fee greater than five hundred dollars.

(2) To receive a fee reduction, the permit holder must submit an application in a manner prescribed by the department demonstrating that the conditions of subsection (1) of this section have been met. The application shall bear a certification of correctness and be signed:

(a) In the case of a corporation, by an authorized corporate officer;

(b) In the case of a limited partnership, by an authorized general partner;

(c) In the case of a general partnership, by an authorized partner; or

(d) In the case of a sole proprietorship, by the proprietor.

(3) The department may verify the information contained in the application and, if it determines that the permit holder has made false statements, may deny the fee reduction request and revoke previously granted fee reductions.

(4) The permit fee for small businesses determined to be eligible under subsection (1) of this section shall be reduced to fifty percent of the assessed annual permit fee.

(5) If the annual gross revenue of the goods and services produced using the processes regulated by the waste discharge permit is one hundred thousand dollars or less, and the annual permit fee assessed imposes an extreme hardship to the business, the small business may request an extreme hardship fee reduction. The small business must provide sufficient evidence to support its claim of an extreme hardship. In no case will a permit fee be reduced below one hundred dollars.

[Statutory Authority: Chapter 90.48 RCW. 96-03-041 (Order 94-21), § 173-224-090, filed 1/10/96, effective 2/10/96; 94-10-027 (Order 93-08), § 173-224-090, filed 4/28/94, effective 5/29/94; 92-03-131 (Order 91-45), § 173-224-090, filed 1/21/92, effective 2/21/92. Statutory Authority: Chapter 43.21A RCW. 89-12-027 and 90-07-015 (Order 89-8 and 89-8A), § 173-224-090, filed 5/31/89 and 3/13/90, effective 4/13/90.]

WAC 173-224-100 Administrative appeals to the department. Any person aggrieved by a determination made under this chapter by the department may file a written appeal to the department no later than each fiscal year's first billing due date for payment of fees. Such appeal shall state the reasons that the aggrieved person believes that the department's determination is contrary to the requirements of RCW 90.48.465, and specific actions that he/she is requesting that are consistent with those requirements. The department shall either issue a revised determination or a statement upholding the original determination. A revised determination shall be consistent with the requirements of RCW 90.48.465. Any

person feeling aggrieved by the administrative appeals decision made by the department regarding their permit fee may obtain review thereof by filing an appeal with the Pollution Control Hearings Board, PO Box 40903, Olympia, Washington 98504-0903, within thirty days of receipt of the department's decision. In addition, a copy of the appeal must be served on the Department of Ecology, Attention: Water Quality Program, PO Box 47696, Olympia, Washington 98504-7696, within thirty days of receipt. These procedures are consistent with the provisions of chapter 43.21B RCW and the rules and regulations adopted thereunder.

[Statutory Authority: Chapter 90.48 RCW. 94-10-027 (Order 93-08), § 173-224-100, filed 4/28/94, effective 5/29/94; 92-03-131 (Order 91-45), § 173-224-100, filed 1/21/92, effective 2/21/92. Statutory Authority: Chapter 43.21A RCW. 89-12-027 and 90-07-015 (Order 89-8 and 89-8A), § 173-224-100, filed 5/31/89 and 3/13/90, effective 4/13/90.]

WAC 173-224-110 Deposits. The department shall deposit permit fee payments in the water quality permit account in the state treasury. Funds collected shall not be available for use by the department until appropriated by the legislature.

[Statutory Authority: Chapter 43.21A RCW. 89-12-027 and 90-07-015 (Order 89-8 and 89-8A), § 173-224-110, filed 5/31/89 and 3/13/90, effective 4/13/90.]

WAC 173-224-120 Past due payments. Any person who, by the effective date of this section, has not paid the fees and other amounts due under chapter 173-223 WAC shall continue to be obligated to pay such fees and amounts.

[Statutory Authority: Chapter 90.48 RCW. 92-03-131 (Order 91-45), § 173-224-120, filed 1/21/92, effective 2/21/92. Statutory Authority: Chapter 43.21A RCW. 89-12-027 and 90-07-015 (Order 89-8 and 89-8A), § 173-224-120, filed 5/31/89 and 3/13/90, effective 4/13/90.]

Chapter 173-225 WAC

FEDERAL WATER POLLUTION CONTROL ACT—ESTABLISHMENT OF IMPLEMENTATION PROCEDURES OF APPLICATION FOR CERTIFICATION

WAC

173-225-010	Introduction.
173-225-020	Purpose.
173-225-030	Public notice and public hearings.

WAC 173-225-010 Introduction. Section 401 of the Federal Water Pollution Control Act (FWPCA) provides that applicants for a license or permit from the federal government relating to any activity which may result in any discharge into the navigable waters shall obtain a certification from the state in which the discharge originates, or will originate, that any such discharge will comply with the applicable provisions of sections 301, 302, 306, and 307 of the FWPCA. The department of ecology, under chapter 90.48 RCW, has been designated as the state water pollution control agency for all purposes of the FWPCA, and is authorized to participate fully in the programs of that act as well as to take all action necessary to meet the requirements thereof.

[Order 73-29, § 173-225-010, filed 11/15/73.]

WAC 173-225-020 Purpose. The purpose of this regulation is to establish procedures for public notice and public hearings in relation to the processing of applications for certification required by section 401 of the FWPCA.

[Order 73-29, § 173-225-020, filed 11/15/73.]

WAC 173-225-030 Public notice and public hearings. Whenever an application for certification required by section 401 of FWPCA is filed with the department of ecology, the following procedures pertaining to public notice and public hearings shall apply:

(1) Public notice of an application shall be performed in relation to all applications, as follows:

(a) By mailing notice of the application for certification to persons and organizations who have requested the same and to all others deemed appropriate; and

(b) When determined by the department as desirable in the public interest, by publication of a notice twice, once each on the same day of the week in two consecutive weeks, in a newspaper of general circulation in the county in which the activity described in the application is located, and in such other counties as are deemed appropriate by the department. The applicant for a certification shall be required to cause such notice to be published in a form approved by the department and the applicant shall bear the cost of such publication and provide an affidavit of publication to the department.

(2) Any person desiring to present views on the application in relation to water pollution control considerations shall do so by providing the same in writing to the regional office of the department of ecology identified in the notice of application within 20 days after notice of the application was last published or such longer period of time as the director may determine, or, in the case where notice is provided only by WAC 173-225-030 (1)(a), within the time period stated in said notice.

(3) If the department determines there is sufficient public interest in any application, a public hearing for the submission of oral views as well as written views shall be held. When this determination is made before notice of application is performed, such notice shall set forth the time and place of the hearing; otherwise, a separate notice of public hearing shall be made and such notice shall be distributed and published in the manner provided in WAC 173-225-030(1). Whenever a public hearing is to be held, the requirement of WAC 173-225-030(2) above in relation to the timing of submitting written views shall not apply, but the deadline for submitting written views shall be set forth in the notice announcing the hearing.

[Order DE 75-6, § 173-225-030, filed 3/7/75; Order 73-29, § 173-225-030, filed 11/15/73.]

Chapter 173-226 WAC

WASTE DISCHARGE GENERAL PERMIT PROGRAM

WAC

173-226-010	Purpose.
173-226-020	Permit required.
173-226-030	Definitions.
173-226-040	Relationship to chapters 173-216 and 173-220 WAC.
173-226-050	General permit coverage.

173-226-060	General permit preparation—Preliminary determination.
173-226-070	Permit effluent limitations.
173-226-080	Other terms and conditions.
173-226-090	Monitoring, recording, and reporting.
173-226-100	Prohibited discharges.
173-226-110	Fact sheets.
173-226-120	Economic impact analysis.
173-226-130	Public notice.
173-226-140	Notice to other government agencies.
173-226-150	Public hearings.
173-226-160	Public access to information.
173-226-170	Issuance of general permits.
173-226-180	Compliance schedules.
173-226-190	Appeals.
173-226-200	Applications for coverage under a general permit.
173-226-210	Transfer of permit coverage.
173-226-220	Duration and replacement of permits.
173-226-230	Modification and revocation of general permits.
173-226-240	Revocation of coverage under a general permit.
173-226-250	Enforcement.

WAC 173-226-010 Purpose. The purpose of this chapter is to establish a state general permit program, applicable to the discharge of pollutants, wastes, and other materials to waters of the state, including discharges to municipal sewerage systems. Permits issued under this chapter are designed to satisfy the requirements for discharge permits under sections 307 and 402(b) of the federal Water Pollution Control Act (33 U.S.C. §1251) and the state law governing water pollution control (chapter 90.48 RCW).

[Statutory Authority: Chapter 90.48 RCW. 93-10-099 (Order 92-55), § 173-226-010, filed 5/5/93, effective 5/19/93.]

WAC 173-226-020 Permit required. No pollutants shall be discharged to waters of the state from any point source, except as authorized by an individual permit issued pursuant to chapters 173-216 and 173-220 WAC, or as authorized through coverage under a general permit issued pursuant to this chapter. Coverage under a valid general permit issued prior to the existence of this chapter will satisfy the permit requirements of this section.

[Statutory Authority: Chapter 90.48 RCW. 93-10-099 (Order 92-55), § 173-226-020, filed 5/5/93, effective 5/19/93.]

WAC 173-226-030 Definitions. For purposes of this chapter, the following definitions shall be applicable:

(1) "Administrator" means the administrator of the United States Environmental Protection Agency.

(2) "Application for coverage" means a form developed by, or approved by the department, which is used by a discharger to apply for coverage under a general permit.

(3) "Best management practices" (BMPs) means schedules of activities, prohibitions of practices, maintenance procedures, and other management practices to prevent or reduce the pollution of the waters of the state. BMPs also include treatment requirements, operating procedures, and practices to control plant site runoff, spillage or leaks, sludge or waste disposal, or drainage from raw material storage.

(4) "Department" means the Washington state department of ecology.

(5) "Director" means the director of the department of ecology or the director's authorized representative.

(6) "Discharge of pollutant" and "discharge of pollutants" mean the addition of any pollutant or combination of pollutants to waters of the state, respectively.

(7) "Discharger" means the owner or operator of any operation, facility, or activity subject to regulation under chapter 90.48 RCW.

(8) "Domestic wastewater" means water carrying human wastes, including kitchen, bath, and laundry wastes from residences, buildings, industrial establishments, or other places, together with such ground water infiltration or surface waters as may be present.

(9) "Domestic wastewater facility" means all structures, equipment, or processes required to collect, carry away, treat, reclaim, or dispose of domestic wastewater, together with such industrial waste as may be present.

(10) "Effluent limitation" means any restriction established by the department or the administrator on quantities, rates, and concentrations of chemical, physical, biological, and other constituents discharged from point sources into waters of the state.

(11) "FWPCA" means the federal Water Pollution Control Act, as amended, 33 U.S.C. §1251 et seq.

(12) "Existing operation" means an operation that is not a new operation.

(13) "General permit" means a permit that covers multiple dischargers of a point source category within a designated geographical area, in lieu of individual permits being issued to each discharger.

(14) "Individual permit" means a permit for a single point source or a single facility.

(15) "Municipal sewerage system" means a publicly owned domestic wastewater facility or privately owned domestic wastewater facility that is under contract to a municipality.

(16) "New operation" means an operation that begins activities that result in a discharge, or a potential discharge to waters of the state on or after the effective date of the general permit.

(17) "Notice of intent" means an application for a general permit, a request for coverage under a general permit, or a registration form for a general permit.

(18) "NPDES" means the National Pollutant Discharge Elimination System.

(19) "Permit" means an authorization, license, or equivalent control document issued by the director to implement this chapter.

(20) "Person" includes any political subdivision, local, state, or federal government agency, municipality, industry, public or private corporation, partnership, association, firm, individual, or any other entity whatsoever.

(21) "Point source" means any discernible, confined, and discrete conveyance, including, but not limited to, any pipe, ditch, channel, tunnel, conduit, well, discrete fissure, container, rolling stock, concentrated animal feeding operation, or vessel or other floating craft, from which pollutants are or may be discharged. This term does not include return flows from irrigated agriculture.

(22) "Pollutant" means dredged spoil, solid waste, incinerator residue, sewage, garbage, sewage sludge, munitions, chemical wastes, biological materials, radioactive materials, heat, wrecked or discarded equipment, rock, sand, cellar dirt, and industrial, municipal, and agricultural waste discharged into water. This term does not include sewage from vessels

within the meaning of section 312 of the FWPCA nor does it include dredged or fill material discharged in accordance with a permit issued under section 404 of the FWPCA.

(23) "Regional administrator" means the regional administrator of Region X of the Environmental Protection Agency (EPA) or his/her authorized representative.

(24) "Sediment standards" means the state of Washington's Sediment management standards (chapter 173-204 WAC).

(25) "Small business" has the meaning given in RCW 43.31.025(4).

(26) "Surface waters of the state" means all waters defined as "waters of the United States" in 40 CFR 122.2 that are within the boundaries of the state of Washington. This includes lakes, rivers, ponds, streams, inland waters, wetlands, ocean, bays, estuaries, sounds, and inlets.

(27) "Waters of the state" means all waters defined as "surface waters of the state" and all waters defined as "waters of the state" in RCW 90.48.020.

(28) "Water quality standards" means the state of Washington's water quality standards for ground waters of the state (chapter 173-200 WAC) and the state of Washington's water quality standards for surface waters of the state (chapter 173-201A WAC).

[Statutory Authority: Chapter 90.48 RCW. 93-10-099 (Order 92-55), § 173-226-030, filed 5/5/93, effective 5/19/93.]

WAC 173-226-040 Relationship to chapters 173-216 and 173-220 WAC. This chapter defines a waste discharge general permit program within Washington state. Chapters 173-216 and 173-220 WAC define and establish permit programs for the development and issuance of individual permits.

[Statutory Authority: Chapter 90.48 RCW. 93-10-099 (Order 92-55), § 173-226-040, filed 5/5/93, effective 5/19/93.]

WAC 173-226-050 General permit coverage. (1) The director may issue general permits to satisfy any or all of the waste water discharge permit requirements of chapter 90.48 RCW and the FWPCA.

(2) The director may issue general permits to cover categories of dischargers for geographic areas as described under subsection (3) of this section. The area shall correspond to existing geographic or political boundaries, such as:

(a) Designated planning areas under section 208 or 303 of the FWPCA;

(b) Sewer districts or other special purpose districts;

(c) City, county, or state political boundaries;

(d) State or county highway systems;

(e) Standard metropolitan statistical areas as defined by the federal Office of Management and Budget;

(f) Urbanized areas as designated by the Bureau of the Census; or

(g) Any other appropriate division or combination of boundaries.

(3) General permits may be written to cover the following within a described area:

(a) Storm water sources; or

(b) Categories of dischargers that meet all of the following requirements:

(i) Involve the same or substantially similar types of operations;

(ii) Discharge the same or substantially similar types of wastes;

(iii) Require the same or substantially similar effluent limitations or operating conditions, and require similar monitoring; and

(iv) In the opinion of the director are more appropriately controlled under a general permit than under individual permits.

(4) The following discharges are not subject to permits under this chapter:

(a) Discharges to municipal sewerage systems of domestic wastewater from residential, commercial, or industrial structures.

(b) Any industrial or commercial discharge to a municipal sewerage system for which authority to issue permits has been granted to the municipality under RCW 90.48.165.

(c) Any industrial or commercial discharge to a municipal sewerage system operating under, and in compliance with, the applicable requirements of a local pretreatment program approved under section 307 of FWPCA and WAC 173-216-150. In the event of noncompliance, this exemption no longer applies and the discharger is immediately subject to enforcement action under chapter 90.48 RCW for discharging without a waste discharge permit.

(d) Discharges to municipal sewerage systems of wastes from industrial or commercial sources whose wastewater is similar in character and strength to normal domestic wastewater: Provided, That such discharges do not have the potential to adversely affect performance of the system. Examples of this type of discharge sources may include hotels, restaurants, laundries, and food preparation establishments.

(e) Discharges of domestic wastewater from a septic tank with subsurface sewage treatment and disposal and an ultimate design capacity less than or equal to fourteen thousand five hundred gallons per day. These systems are governed by on-site sewage disposal systems, chapter 246-272 WAC which is administered by the Washington state department of health.

(f) Discharges of domestic wastewater from a mechanical treatment system or lagoon followed by subsurface disposal with an ultimate design capacity less than or equal to three thousand five hundred gallons per day. These systems are governed by on-site sewage disposal systems, chapter 246-272 WAC which is administered by the Washington state department of health.

[Statutory Authority: Chapter 90.48 RCW. 93-10-099 (Order 92-55), § 173-226-050, filed 5/5/93, effective 5/19/93.]

WAC 173-226-060 General permit preparation—Preliminary determination. (1) For all general permits, the department shall make a preliminary determination to develop a general permit. Interested persons may petition the director requesting that a category of dischargers be considered for the development of a general permit. The department shall respond to such a petition within ninety days of receipt.

(2) The department shall provide public notice of all preliminary determinations to develop a general permit pursuant to WAC 173-226-130(1).

(3) In the event that the department determines not to develop a general permit after publishing a preliminary determination pursuant to WAC 173-226-130(2), the department shall provide public notice to that effect in the same manner as the preliminary determination public notice was provided.

[Statutory Authority: Chapter 90.48 RCW. 93-10-099 (Order 92-55), § 173-226-060, filed 5/5/93, effective 5/19/93.]

WAC 173-226-070 Permit effluent limitations. Any general permit issued by the department shall apply and insure compliance with all of the following, whenever applicable:

(1) Technology-based treatment requirements and standards reflecting all known, available, and reasonable methods of prevention, treatment, and control required under RCW 90.48.010, 90.48.520, 90.52.040, and 90.54.020 may be imposed through any or all of the following methods:

(a) Effluent limitations and standards promulgated pursuant to sections 301, 302, 306, and 307 of the FWPCA;

(b) Discharge standards contained in chapters 173-221 and 173-221A WAC;

(c) On a case-by-case basis under section 402 of the FWPCA; and/or

(d) Through the use of best management practices.

(2) Water quality-based effluent limitations.

(a) Water quality-based effluent limitations shall be incorporated into a general permit if such limitations are necessary to comply with chapter 173-200 and/or 173-201A WAC for the majority of the dischargers intended to be covered under the general permit and:

(i) The department determines that the use of a general permit rather than individual permits is appropriate; and

(ii) The conditions of coverage contained in WAC 173-226-050 are met.

(b) Water quality-based effluent limitations must control all pollutants or pollutant parameters which the department determines are or may be discharged at a level which will cause, have the reasonable potential to cause, or contribute to an excursion of state ground or surface water quality standards.

(3) Any more stringent limitations or requirements, including those necessary to:

(a) Meet water quality standards, sediment quality standards, treatment standards, or schedules of compliance established pursuant to any state law or regulation under authority preserved to the state by section 510 of the FWPCA;

(b) Meet any federal law or regulation other than the FWPCA or regulations thereunder;

(c) Implement any legally applicable requirements necessary to implement total maximum daily loads established pursuant to section 303(d) and incorporated in the continuing planning process approved under section 303(e) of the FWPCA and any regulations and guidelines issued pursuant thereto;

(d) Prevent or control pollutant discharges from plant site runoff, spillage or leaks, sludge or waste disposal, or materials handling or storage;

(e) Meet the permit by rule provisions of the state dangerous waste regulation, WAC 173-303-802 (4) or (5);

(f) Comply with a plan approved pursuant to section 208(b) of the FWPCA; and/or

(g) Meet such conditions as the department determines are necessary to carry out the provisions of the FWPCA, prior to promulgation by the administrator of applicable effluent standards and limitations pursuant to sections 301, 302, 306, and 307 of the FWPCA.

(4) In addition to the other applicable requirement of this chapter, general permits authorizing the discharge into a municipal sewerage system shall satisfy the applicable pretreatment requirements of the FWPCA.

(5) Requirements pursuant to other laws, including the state's Hazardous Waste Management Act (chapter 70.105 RCW), the Solid Waste Management—Reduction and Recycling Act (chapter 70.95 RCW), the Resource Conservation and Recovery Act of 1976 (Public Law 95.190), or any other applicable local ordinances, state or federal statute, to the extent that they pertain to the prevention or control of waste discharges into the waters of the state;

(6) In the application of effluent standards and limitations, water and sediment quality standards and other legally applicable requirements pursuant to subsections (1) through (4) of this section, each general permit shall specify:

(a) For industrial wastewater facilities, average monthly and maximum daily quantitative mass and/or concentration limitations, or other such appropriate limitations for the level of pollutants and the authorized discharge;

(b) For domestic wastewater facilities, average weekly and monthly quantitative concentration and mass limitations, or other such appropriate limitations for the level of pollutants and the authorized discharge;

(c) If a dilution zone is authorized, pursuant to chapter 173-201A WAC, within which water quality standards are modified, the dimensions of such dilution zone; and

(d) If a sediment impact zone is authorized within which sediment quality standards are modified pursuant to chapter 173-204 WAC, the dimensions of such sediment impact zone.

[Statutory Authority: Chapter 90.48 RCW. 93-10-099 (Order 92-55), § 173-226-070, filed 5/5/93, effective 5/19/93.]

WAC 173-226-080 Other terms and conditions. (1) In addition to the requirements of WAC 173-226-070, 173-226-090, and 173-226-180, each general permit shall require:

(a) All discharges authorized by the general permit shall be consistent with the terms and conditions of the permit.

(b) Any facility expansions, production increases, or process modifications that would result in new or increased discharges of pollutants causing effluent limitations in the general permit to be exceeded or beyond which was reported in the application for coverage, must be reported to the department by submission of a new application or supplement thereto.

(c) Unless notified to the contrary by the department all notices submitted pursuant to (b) of this subsection shall comply with the application requirements of WAC 173-226-200(3).

(d) Any discharge of any pollutant more frequent than or at a level in excess of that identified and authorized by the

general permit shall constitute a violation of the terms and conditions of the general permit.

(e) The director may terminate coverage under a general permit for cause. Cases where coverage under a general permit may be terminated include, but are not limited to, those contained in WAC 173-226-240(1).

(f) The director may require any discharger to apply for and obtain an individual permit, or to apply for and obtain coverage under another more specific general permit.

(g) General permits may be issued, modified, revoked and reissued, or terminated in accordance with the other provisions of this chapter. Grounds for modification or revocation and reissuance include but are not limited to those contained in WAC 173-226-230.

(h) The permittee shall allow the department or its authorized representative, upon the presentation of credentials and such other documents as may be required by law, at reasonable times:

(i) To enter upon permittee's premises in which an effluent source is located or in which any records are required to be kept under terms and conditions of the permit;

(ii) To have access to, and to copy at reasonable cost, any records required to be kept under terms and conditions of the permit;

(iii) To inspect any monitoring equipment or method required in the permit; and/or

(iv) To sample any discharge of pollutants.

(i) The permittee shall at all times properly operate and maintain any facilities or systems of control to achieve compliance with the terms and conditions of the general permit. Where design criteria have been established, the permittee shall not allow flows or waste loadings to exceed approved design criteria, or approved revisions thereto.

(j) The discharge of pollutants resulting from activities not covered under the general permit for which the discharger has requested coverage, shall be a violation of the terms and conditions of the general permit.

(2) General permits shall specify the contents of the application for coverage, the deadlines for submitting applications for coverage, the date(s) and/or the process by which coverage is granted, and the criteria for coverage.

(3) Any discharger authorized by a general permit may request to be excluded from coverage under the general permit by applying for and being issued an individual permit. The discharger shall submit to the director an application as described in WAC 173-220-040, with reasons supporting the request. The director shall either issue an individual permit or deny the request with a statement explaining the reason for denial.

(4) When an individual permit is issued to a discharger otherwise subject to a general permit, the applicability of the general permit to that permittee is automatically terminated on the effective date of the individual permit.

[Statutory Authority: Chapter 90.48 RCW. 93-10-099 (Order 92-55), § 173-226-080, filed 5/5/93, effective 5/19/93.]

WAC 173-226-090 Monitoring, recording, and reporting. (1) Monitoring.

(a) Any discharge authorized by a general permit may be subject to such monitoring requirements as may be reasonably required by the department, including the installation, use, and maintenance of monitoring equipment or methods (including, where appropriate, biological monitoring methods). These monitoring requirements would normally include but are not limited to:

(i) Flow (in gallons per day or other appropriate units);

(ii) All pollutants on which limitations have been placed pursuant to WAC 173-226-070;

(iii) Pollutants (either directly or indirectly through the use of accepted correlation coefficients or equivalent measurements) that are subject to reduction or elimination under the terms and conditions of the permit;

(iv) Pollutants that the department finds could have a significant impact on the quality of waters and sediments of the state; and

(v) Pollutants specified by the administrator, in regulations issued pursuant to the FWPCA, as subject to monitoring.

(b) Each effluent flow or pollutant required to be monitored pursuant to (a) of this subsection shall be monitored at intervals sufficiently frequent to yield data that reasonably characterizes the nature of the discharge of the monitored effluent flow or pollutant.

(c) Monitoring for compliance with limitations imposed pursuant to WAC 173-226-070 shall be no less than once per year.

(d) Variable effluent flows and pollutant levels may be monitored at more frequent intervals than relatively constant effluent flows and pollutant levels, which may be monitored at less frequent intervals.

(e) Monitoring of intake water, influent to treatment facilities, internal waste streams, and/or receiving waters may be required by the department, to verify compliance with net discharge limitations or removal requirements, to verify that proper waste treatment or control practices are being maintained, or to determine the effects of the discharge on the waters and sediments of the state.

(2) Recording of monitoring activities and results. Any general permit which requires monitoring of an authorized discharge shall require that:

(a) The permittee maintain records of all information resulting from any monitoring activities required as a condition of the application for, or as a condition of coverage under a general permit;

(b) Any records of monitoring activities and results shall include for all samples:

(i) The date, exact place, and time of sampling;

(ii) The dates analyses were performed;

(iii) Who performed the analyses;

(iv) The analytical techniques/methods used; and

(v) The results of such analyses; and

(c) The permittee retain for a minimum of five years any records of monitoring activities and all results of those activities including all original strip chart recording for continuous monitoring instrumentation and calibration and maintenance records. This period of retention shall be extended during the course of any unresolved litigation regarding the discharge of pollutants by the permittee, or when requested by the department or regional administrator.

(3) Reporting of monitoring results.

(a) The department may require the permittee to periodically report on the proper reporting form, the monitoring results obtained pursuant to monitoring requirements in a general permit. In addition to the required reporting form, the department may require submission of such other reports as it determines to be necessary.

(b) Monitoring reports shall be signed by:

(i) In the case of corporations, a responsible corporate officer or duly authorized representative, if such representative is responsible for the overall operation of the facility from which the discharge originates.

(ii) In the case of a partnership, a general partner.

(iii) In the case of a sole proprietorship, the proprietor.

(iv) In the case of a municipal, state, or other public facility, either a principal executive officer, ranking elected official, or other duly authorized employee.

(4) Except as provided in subsection (5) of this section, all monitoring data required as a condition of a general permit, or required as part of an application for coverage under a general permit shall be prepared by a laboratory registered or accredited under the provisions of chapter 173-50 WAC within one year of first being covered under a general permit or by July 1, 1995, whichever is later.

(5) The following parameters need not be accredited or registered:

(a) Flow;

(b) Temperature;

(c) Settleable solids;

(d) Conductivity, except that conductivity shall be accredited if the laboratory must otherwise be registered or accredited;

(e) pH, except that pH shall be accredited if the laboratory must otherwise be registered or accredited; and

(f) Parameters which are used solely for internal process.

[Statutory Authority: RCW 43.21A.230. 93-20-011 (Order 92-53), § 173-226-090, filed 9/22/93, effective 10/23/93. Statutory Authority: Chapter 90.48 RCW. 93-10-099 (Order 92-55), § 173-226-090, filed 5/5/93, effective 5/19/93.]

WAC 173-226-100 Prohibited discharges. (1) No general permit issued by the department shall authorize any person to:

(a) Discharge any radiological, chemical, or biological warfare agent or high-level radioactive waste into waters of the state;

(b) Discharge any pollutants that the Secretary of the Army acting through the Chief, Corps of Engineers, finds would substantially impair anchorage and navigation;

(c) Discharge any pollutant which the regional administrator, not having waived his/her right to object pursuant to section 402(e) of the FWPCA, has objected in writing pursuant to section 402(d) of the FWPCA;

(d) Discharge any pollutant in conflict with plans or amendment thereto approved pursuant to section 208(b) of the FWPCA;

(e) Discharge any pollutant subject to a toxic pollutant discharge prohibition under section 307 of the FWPCA; or

(f) Discharge any dangerous waste as defined in the Dangerous waste regulations, chapter 173-303 WAC, into a subsurface disposal system such as a well or drainfield.

(2) The following discharges to municipal sewerage systems are also prohibited:

(a) Waste materials that pass through the treatment works untreated or interfere with its operation or performance;

(b) Liquids, solids, or gases that, by reason of their nature or quantity, are or may be sufficient either alone or by interaction to:

(i) Cause fire or explosion;

(ii) Create a public nuisance or hazard to life;

(iii) Prevent entry into the sewers for their maintenance and repair; or

(iv) Be injurious in any other way to the operation of the system or the operating personnel;

(c) Solid or viscous substances which may cause obstruction to the flow in a sewer or other interference with the operation of the system;

(d) Any wastewater having a pH less than 5.0 or greater than 11.0, or having any other corrosive property capable of causing damage or hazard to structures, equipment, or personnel of the system, unless the system is specifically designed to accommodate such discharge and the discharge is authorized by a permit under this chapter;

(e) Wastewater that would cause the influent temperature to exceed 40°C (104°F), unless the system is specifically designed to accommodate such discharge and the discharge is authorized by a permit under this chapter. In any case, any wastewater having a temperature which will interfere with the biological activity in the system is prohibited;

(f) Waste materials, including, but not limited to, oxygen demanding waste materials (BOD, etc.) released in either a slug load or continuous discharge of such volume or strength as to cause interference to the system;

(g) Any other discharge prohibited by federal or state law or regulation; and

(h) Any of the following discharges, unless approved by the department under extraordinary circumstances (such as lack of direct discharge alternatives due to combined sewer service or need to augment sewage flows due to septic conditions):

(i) Noncontact cooling water in significant volumes;

(ii) Storm water and other direct inflow sources;

(iii) Waste waters significantly affecting system hydraulic loading that do not require treatment or would not be afforded a significant degree of treatment by the system.

[Statutory Authority: Chapter 90.48 RCW. 93-10-099 (Order 92-55), § 173-226-100, filed 5/5/93, effective 5/19/93.]

WAC 173-226-110 Fact sheets. (1) The department shall prepare a fact sheet for every draft general permit determination. Such fact sheets shall summarize the following:

(a) The type of facility or activity which is the subject of the general permit;

(b) The geographical area for which the general permit is valid;

(c) The criteria for which coverage under a general permit will be approved;

(d) A listing or some other means of identifying the facilities proposed to be covered under the general permit;

(e) The information required by WAC 173-226-200(3), to be submitted as part of the application for coverage under the general permit;

(f) The effluent characteristics for the category of dischargers being authorized under the general permit, including the following:

(i) The average rate or frequency of the proposed discharge;

(ii) For thermal discharges, the average summer and winter temperatures; and

(iii) The average and estimated range in pounds per day, or other appropriate units, of any pollutants which are present in significant quantities or which are subject to limitations or prohibition under RCW 90.48.010, 90.52.040, 90.54.020, and sections 301, 302, 306, or 307 of the FWPCA and regulations published thereunder;

(g) The effluent standards and limitations applied;

(h) The applicable water quality standards, including identification of the uses for which receiving waters have been classified;

(i) The conditions in the proposed general permit;

(j) The legal and technical grounds for the conditions contained in the general permit, including;

(i) An explanation of how conditions meet both the technology-based and water quality-based requirements of the FWPCA and chapters 90.48, 90.52, and 90.54 RCW;

(ii) An explanation of how the conditions meet the water quality standards of chapters 173-200 and 173-201A WAC; and

(iii) An explanation of how the conditions meet the sediment standards contained in chapter 173-204 WAC;

(k) If a dilution zone is authorized, pursuant to chapter 173-201A WAC, within which water quality standards are modified:

(i) A description of the allowed dilution zone;

(ii) The legal basis for providing a dilution zone; and

(iii) The technical basis for allowing a dilution zone and the basis for determining the size of the dilution zone;

(l) Any compliance schedules proposed as part of the general permit or as a part of the application process pursuant to WAC 173-226-180 and 173-226-200;

(m) How the draft permit addresses use or disposal of residual solids generated by wastewater treatment;

(n) The procedures for the formulation of final determinations (in more detailed form than that given in the public notice) including:

(i) The thirty-day comment period required by WAC 173-226-130(3), including the date and time after which public comments will not be considered by the department in formulating the final determination on the draft general permit;

(ii) The time and place of the public hearing(s); and

(iii) Any other procedures by which the public may participate in the formulation of the final determination; and

(o) A summary of the economic impact analysis required by WAC 173-226-120, including any mitigation proposed pursuant to WAC 173-226-120(2) for small business.

(2) The department shall provide copies of general permit fact sheets to any interested person upon request.

[Statutory Authority: Chapter 90.48 RCW. 93-10-099 (Order 92-55), § 173-226-110, filed 5/5/93, effective 5/19/93.]

WAC 173-226-120 Economic impact analysis. (1) The department shall prepare an economic impact analysis on all draft general permits which are intended to directly cover small business. The economic impact analysis shall be prepared on the draft general permit for which public notice is being provided pursuant to WAC 173-226-130(3).

(2) The purpose of the economic impact analysis is to reduce the economic impact of the general permit on small business by doing one or more of the following when it is legal and feasible in meeting the stated objectives of the FWPCA and chapter 90.48 RCW:

(a) Establishing differing compliance or reporting requirements or timetables for small businesses;

(b) Clarifying, consolidating, or simplifying the compliance and reporting requirements under the general permit for small businesses;

(c) Establishing performance rather than design standards;

(d) Exempting small businesses from parts of the general permit.

(3) The contents of an economic impact analysis of a proposed general permit shall include, at a minimum, the following:

(a) A brief description of the compliance requirements of the general permit, including:

(i) The minimum technology based treatment requirements identified as necessary under WAC 173-226-070;

(ii) The monitoring requirements contained in the general permit;

(iii) The reporting and recordkeeping requirements; and

(iv) Any plan submittal requirements;

(b) The estimated costs of compliance, based upon existing data for facilities intended to be covered under the general permit. Costs shall include, consistent with subsection (2) of this section the following:

(i) The costs associated with (a) of this subsection; and

(ii) The costs of equipment, supplies, labor, and any increased administrative costs;

(c) A comparison, to the greatest extent possible, of the cost of compliance for small businesses with the cost of compliance for the largest ten percent of the facilities intended to be covered under the general permit. The economic impact analysis shall use one or more of the following as a basis for comparing costs:

(i) Cost per employee;

(ii) Cost per hour of labor;

(iii) Cost per one hundred dollars of sales.

(4) The following compliance costs associated with a general permit shall not be included in the economic impact analysis:

(a) The costs necessary to comply with chapters 173-200, 173-201, 173-204, and 173-224 WAC; and

(b) The costs associated with requirements of the general permit which result from conformity or compliance, or both, with federal law or regulations.

[Statutory Authority: Chapter 90.48 RCW. 93-10-099 (Order 92-55), § 173-226-120, filed 5/5/93, effective 5/19/93.]

WAC 173-226-130 Public notice. The department shall provide public notice of all preliminary determinations to

develop a general permit, all determinations not to develop a general permit after publishing such a preliminary determination, all draft general permit determinations, and the issuance of a final general permit. All public notices shall be circulated in a manner designed to inform interested and potentially affected persons of the proposed general permit.

(1) The department shall provide public notice of all preliminary determinations to develop a general permit as follows:

(a) The public notice shall be circulated within the geographical area of the proposed general permit. Such notice may include any or all of the following:

(i) Publishing, as a paid advertisement or legal notice, the department's preliminary determination in one or more major local newspapers throughout the area of proposed coverage;

(ii) Issuance of news releases, focus sheets, or newsletters;

(iii) Publication in the *State Register*;

(b) The department shall request comments on whether a general permit is appropriate for the proposed category of dischargers or whether individual permits are necessary;

(c) The public notice shall provide an opportunity for any interested or potentially affected party to submit information on dischargers proposed to be covered under a general permit including:

(i) Any documented information on the characteristics of the discharge including effluent quantity, quality, and any receiving water impacts. Information may be from an individual facility or be representative of the category as a whole; and

(ii) Any other relevant information;

(d) The department shall add the name of any person upon request to a general permit specific mailing list to receive information and notices related to the development of the general permit.

(2) In the event that the department determines not to develop a general permit after publishing a preliminary determination pursuant to subsection (1) of this section, the department shall provide public notice to that effect.

(3) The department shall provide public notice of every draft general permit as follows:

(a) The notice shall be circulated throughout the geographical area covered by the general permit. Such circulation may include any or all of the following:

(i) Posting for a period of thirty days in post offices, public libraries, and public places within the geographical area covered by the general permit;

(ii) Publishing the notice as a paid advertisement, display advertisement, or legal notice, in one or more major local newspapers of general circulation serving the area covered by the general permit;

(iii) Issuance of news releases, focus sheets, or newsletters.

(b) Notice shall be mailed to any person upon request, including all persons on the general permit specific mailing list established pursuant to subsection (1)(d) of this section and all persons on the mailing lists established pursuant to WAC 173-220-050 (1)(d).

(c) At least thirty days before the public hearing on the general permit the department shall have the following published in the *State Register*:

(i) The public notice contents contained in (f) of this subsection;

(ii) A reference to the relevant sections of chapter 90.48 RCW as the statutory authority for issuing the general permit;

(iii) The date on which the agency intends to issue the general permit;

(iv) A short explanation of the permit, its purpose, and anticipated effects; and

(v) A summary of the economic impact analysis required in WAC 173-226-120.

(d) The department shall provide a period of not less than thirty days following the last publication of the public notice, during which time interested persons may submit their written views on a draft general permit determination. All written comments submitted during the comment period shall be retained by the department and considered in the formulation of its final determination with respect to the draft general permit. The period for comment may be extended at the discretion of the department.

(e) The department shall make available during the public comment period:

(i) The draft general permit;

(ii) The fact sheet on the draft general permit required pursuant to WAC 173-226-110;

(iii) The economic impact analysis required pursuant to WAC 173-226-120;

(iv) A copy of the proposed application for coverage; and

(v) The notice required pursuant to WAC 173-226-130 (3)(c).

(f) The contents of the draft general permit public notice shall, at a minimum, summarize the following:

(i) The name, address, and phone number of the agency issuing the public notice;

(ii) The type of facilities and activities which are the subject of the general permit;

(iii) The geographical area for which the general permit is valid;

(iv) The criteria for which coverage under a general permit will be approved;

(v) A listing or some other means of generally identifying the facilities proposed to be covered under the general permit;

(vi) The tentative determination to issue a general permit;

(vii) The procedures for the formulation of final determinations, including the thirty-day comment period required by (d) of this subsection and any other means by which interested persons may comment upon those determinations;

(viii) The date, time, and place when public hearings will be held on the draft general permit;

(ix) The address and phone number of state premises at which interested persons may obtain further information; and

(x) The date and time after which comments will not be considered by the department in formulating the final determination on the draft general permit.

(4) The department shall provide public notice of the issuance of a final general permit as follows:

(a) The notice of general permit issuance shall be circulated in a manner similar to that used to circulate the notice on the draft general permit in subsection (3)(a) of this section and shall be published in the *State Register*; and

(b) The notice of general permit issuance shall be provided to all persons on the general permit specific mailing list established pursuant to subsection (1)(d) of this section and all persons on the mailing lists established pursuant to WAC 173-220-050 (1)(d).

(c) The public notice of the issuance of a general permit shall contain:

(i) The name, address, and phone number of the agency issuing the public notice;

(ii) The type of facilities and activities which are the subject of the general permit;

(iii) The geographical area for which the general permit is valid;

(iv) The criteria for which coverage under a general permit will be approved;

(v) A listing or some other means of generally identifying the facilities proposed to be covered under the general permit;

(vi) A summary of the application process by which eligible dischargers may obtain coverage under the general permit;

(vii) An explanation of any changes to the final general permit, other than editing changes, and the principal reasons for adopting the changes;

(viii) A notice that the terms and conditions of the general permit may be appealed only by filing an appeal with the pollution control hearings board and by serving it upon the department within thirty days, and the process for doing so as contained in RCW 43.21B.310; and

(ix) The date after which the general permit shall be effective. The effective date of a general permit shall be no sooner than thirty days after the publication in the *State Register* of the public notice required pursuant to (a) of this subsection.

(5) For new operations, or for operations previously under permit for which an increase in volume or change in the character of the effluent is requested over that which was previously authorized, only:

(a) The applicant for coverage under a general permit shall cause notice to be circulated within the geographical area of the proposed discharge. Such circulation shall include:

(i) Publishing twice a notice in a newspaper of general circulation within the county in which the discharge is proposed to be made; and

(ii) Any other method the department may direct.

(b) The notice published pursuant to (a) of this subsection shall contain:

(i) The name, address, and location of the facility requesting coverage under the general permit;

(ii) The applicant's activities or operations that result in a discharge (e.g., storm water, fish farming, gravel washing);

(iii) The name of the general permit under which coverage is being requested; and

(iv) The statement: "Any person desiring to present their views to the department of ecology regarding this application may do so in writing within thirty days of the last date of publication of this notice. Comments shall submitted to the department of ecology. Any person interested in the department's action on this application may notify the department of their interest within thirty days of the last date of publication of this notice."

[Statutory Authority: Chapter 90.48 RCW. 93-10-099 (Order 92-55), § 173-226-130, filed 5/5/93, effective 5/19/93.]

WAC 173-226-140 Notice to other government agencies. The department shall notify other appropriate government agencies of each draft general permit determination and shall provide such agencies an opportunity to submit their written views and recommendations. Such notification for NPDES and combined NPDES/state waste discharge general permits only, shall include the following:

(1) Transmission of the fact sheet, application form, and draft general permit to the regional administrator for comment or objection. The regional administrator shall be provided ninety days to comment on the draft permit prior to issuance by the department unless an alternative time period is mutually agreed on by the director and the regional administrator.

(2) Immediately following issuance, the department shall transmit a copy of every fact sheet, application form, and general permit along with any and all terms, conditions, requirements, or documents which are a part of the general permit or which affect the authorization by the general permit, of the discharge of pollutants, to the regional administrator.

(3) At the time of issuance of the public notices pursuant to WAC 173-226-130 (1)(a), (3)(a), and (4)(a) the department shall transmit the public notices to any other states whose waters may be affected by the issuance of the general permit. Each affected state shall be afforded an opportunity to submit written comments pursuant to WAC 173-226-130 (1)(b) and (3)(d), to the department and to the regional administrator, which the department may incorporate into the permit if issued. Should the department fail to incorporate any written recommendations thus received, it shall provide to the affected state or states (and to the regional administrator) a written explanation of its reasons for failing to accept any of the written recommendations or comments.

(4) Unless waived by the respective agency, the public notices issued pursuant to WAC 173-226-130 (1)(a), (2), (3)(a), and (4)(a) shall be sent to the appropriate district engineer of the Army Corps of Engineers, the United States Fish and Wildlife Service, the National Marine Fisheries Service, the state departments of fisheries, health, natural resources, wildlife, and social and health services, the office of archaeology and historic preservation, the agency responsible for the preparation of an approved plan pursuant to section 208(b) of the FWPCA, applicable Indian tribes, and any other applicable government agencies.

(5) A copy of any written agreement between the department and an agency identified in subsection (4) of this section which waives the receipt of public notices shall be forwarded

to the regional administrator and shall be made available upon request to the public for inspection and copying.

(6) Copies of public notices issued pursuant to WAC 173-226-130 (1)(a), (2), (3)(a), and (4)(a) shall be mailed to any other federal, state, or local agency, Indian tribe, or any affected country, upon request. Such agencies shall have an opportunity to respond or comment on the draft general permit pursuant to WAC 173-226-130 (1)(b) and (3)(d).

[Statutory Authority: Chapter 90.48 RCW. 93-10-099 (Order 92-55), § 173-226-140, filed 5/5/93, effective 5/19/93.]

WAC 173-226-150 Public hearings. (1) The department shall hold one or more public hearing(s) on all draft general permits. The public hearing shall be held during the public comment period provided pursuant to WAC 173-226-130 (3)(d).

(2) The date, time, and place will be at the discretion of the department provided:

(a) At least thirty days is provided between the time the public notice is published pursuant to WAC 173-226-130 (3)(a) and (c), and the time the hearing is held; and

(b) The hearing location is within the geographical area covered by the general permit.

(3) For new operations or for operations previously under permit for which an increase in volume or change in the character of the effluent has occurred only, any interested person may request a public hearing within thirty days of the last date of publication of the public notice required pursuant to WAC 173-226-130(5).

(a) All requests for a public hearing shall be in writing and shall state the nature of the issues proposed to be raised in the hearing.

(b) The department shall only consider issues regarding the general permits applicability or nonapplicability to the discharger when considering the need to hold a public hearing.

(4) The department shall cause a record to be made of all hearings required pursuant to this section. The record may be stenographic, mechanical, or electronic.

[Statutory Authority: Chapter 90.48 RCW. 93-10-099 (Order 92-55), § 173-226-150, filed 5/5/93, effective 5/19/93.]

WAC 173-226-160 Public access to information. (1) In accordance with chapter 42.17 RCW and its published policy describing disclosure of public records, the department shall make identifiable public records relating to all general permits available to the public for inspection and copying.

(2) The department shall designate a general permit coordinator for each general permit. The coordinator shall:

(a) Have knowledge of the general permit being prepared;

(b) Maintain the records associated with the development of the general permit including the general permit file required pursuant to subsection (3) of this section;

(c) Be identified as the department contact in public notices regarding the general permit.

(3) The department shall prepare a general permit development file for each issued general permit. The general permit development file shall be available for public inspection subject to the provisions of this section. The general permit development file shall contain:

(a) Copies of all public notices required pursuant to WAC 173-226-130;

(b) A copy of the fact sheet required pursuant to WAC 173-226-110 and any other documents not readily available to the public which were used in developing the terms and conditions of the general permit;

(c) Copies of the draft and final general permits, the economic impact analysis, and the application for coverage;

(d) All written comments received during the public comment period required pursuant to WAC 173-226-130(3), on the draft general permit, fact sheet, economic impact analysis, and application for coverage;

(e) The record of public hearings produced pursuant to WAC 173-226-150(4); and

(f) The response to comments prepared pursuant to WAC 173-226-170(1).

(4) Pursuant to chapter 42.17 RCW, the department shall provide, upon request, any information submitted as part of an application for coverage under a general permit.

(5) The department shall add the name of any person, upon request, to a mailing list to receive notices of department actions associated with a general permit.

(6) The department shall provide facilities for the inspection of information relating to general permits and shall insure that employees honor requests for such inspection promptly without undue requirements or restrictions. The department shall either:

(a) Insure that a machine or device for the copying of papers and documents is available for a reasonable fee; or

(b) Otherwise provide for, or coordinate with copying facilities or services such that requests for copies of nonconfidential, identifiable public records be honored promptly.

(7) Pursuant to chapters 42.17, 43.21A, 70.105, and 90.52 RCW, the department shall protect any information (other than information on the effluent) contained in applications as confidential upon a showing by any person that such information, if made public, would divulge methods or processes entitled to protection as trade secrets of such person.

(8) Any information accorded confidential status, whether or not contained in an application form, shall be disclosed, upon request, to the regional administrator.

[Statutory Authority: Chapter 90.48 RCW. 93-10-099 (Order 92-55), § 173-226-160, filed 5/5/93, effective 5/19/93.]

WAC 173-226-170 Issuance of general permits. (1) At the close of the public comment period required pursuant to WAC 173-226-130 (3)(d) the department shall prepare a response to all relevant comments received (both written and oral) and shall briefly describe any changes, other than editing changes, and the principal reasons for making the changes to the draft general permit.

(2) General permits shall be deemed issued upon signing by the director or by a person delegated the authority to issue general permits pursuant to chapter 173-06 WAC.

(3) The department shall provide public notice of the issuance of all final general permits pursuant to WAC 173-226-130 (4)(a).

(4) General permits become effective thirty days after the date of publication in the *State Register* of the public notice required pursuant to WAC 173-226-130 (4)(a) unless a later date is specified by the department.

[Statutory Authority: Chapter 90.48 RCW. 93-10-099 (Order 92-55), § 173-226-170, filed 5/5/93, effective 5/19/93.]

WAC 173-226-180 Compliance schedules. (1) The department may establish schedules and permit conditions as necessary to achieve compliance with applicable effluent standards and limitations, water quality standards, and other legally applicable requirements contained in a general permit in any or all of the following ways:

(a) As a condition or schedule in a general permit;

(b) In an administrative order issued pursuant to chapter 90.48 RCW; and

(c) By any other method deemed appropriate by the department.

(2) Schedules of compliance shall reflect the shortest reasonable period of time necessary to achieve compliance consistent with the guidelines and requirements of the FWPCA.

(3) In any case where the period of time for compliance specified in subsection (1)(a) of this section exceeds one year, a schedule of compliance shall be specified that will set forth interim requirements and the dates for their achievement; however, in no event shall more than one year elapse between interim dates. If the time necessary for completion of the interim requirement (such as construction of a treatment facility) is more than one year and is not readily divided into stages of completion, interim dates shall be specified for the submission of reports of progress toward completion of the interim requirement.

(4) Either before or up to fourteen days following each interim date and the final date of compliance, the permittee shall provide the department with written notice of the permittee's compliance or noncompliance with each interim or final requirement.

(5) If a permittee fails or refuses to comply with an interim or final requirement contained in a general permit, or as submitted as part of an application for coverage under a general permit, such noncompliance shall constitute a violation of the general permit for which the department may revoke coverage under the general permit or take direct enforcement action pursuant to chapter 90.48 RCW.

[Statutory Authority: Chapter 90.48 RCW. 93-10-099 (Order 92-55), § 173-226-180, filed 5/5/93, effective 5/19/93.]

WAC 173-226-190 Appeals. (1) The terms and conditions of a general permit as they apply to the appropriate class of dischargers are subject to appeal within thirty days of issuance of a general permit in accordance with chapter 43.21B RCW.

(2) The terms and conditions of a general permit, as they apply to an individual discharger, are appealable, within thirty days of the effective date of coverage of that discharger, in accordance with chapter 43.21B RCW. This appeal is limited to the general permit's applicability or nonapplicability to that individual discharger.

(3) The appeal of general permit coverage of an individual discharger does not affect any other dischargers covered under the general permit. If the terms and conditions of a general permit are found to be inapplicable to any individual discharger(s), the matter shall be remanded to the department for consideration of issuance of an individual permit or permits.

[Statutory Authority: Chapter 90.48 RCW. 93-10-099 (Order 92-55), § 173-226-190, filed 5/5/93, effective 5/19/93.]

WAC 173-226-200 Applications for coverage under a general permit. (1) Following the public notice by the department of the issuance of a general permit, or at an alternate date as designated by the department, all dischargers who desire to be covered under the general permit shall notify the department of that fact on a form prescribed by the department no later than the following, unless a shorter application period is allowed in the general permit under which coverage is requested:

(a) For existing operations, applications for coverage shall be submitted no later than ninety days after the issuance date of the general permit under which coverage is requested;

(b) For new operations, applications for coverage shall be submitted no later than one hundred eighty days prior to the commencement of the activity that may result in the discharge to waters of the state.

(2) Unless specified otherwise in the general permit under which coverage is requested or the department responds in writing, coverage of a discharger under a general permit will automatically commence on the later of the following:

(a) The effective date of the general permit;

(b) The thirty-first day following the end of the thirty-day comment period required by WAC 173-226-130(4);

(c) The thirty-first day following receipt by the department of a completed application for coverage under a general permit; or

(d) A date specified by the department in the general permit.

(3) All applications for coverage under a general permit shall:

(a) Contain information necessary for adequate program implementation;

(b) Contain the legal name and address of the owner or operator, the facility name and address, type of facility or discharges, and the receiving streams;

(c) Bear a certification of correctness;

(d) Be signed:

(i) In the case of corporations, by a responsible corporate officer.

(ii) In the case of a partnership, by a general partner.

(iii) In the case of sole proprietorship, by the proprietor.

(iv) In the case of a municipal, state, or other public facility, by either a principal executive officer or ranking elected official; and

(e) Include any other information deemed relevant by the department.

(f) For new operations, or for operations for which an increase in volume of wastes or change in character of efflu-

ent is requested over that previously authorized, applications for coverage shall also contain:

(i) A certification by the applicant that the public notice requirements of WAC 173-226-130(5) have been met; and

(ii) A certification by the applicant that the applicable SEPA requirements under chapter 197-11 WAC have been met.

(4) The department shall develop an application form for each general permit and shall make the application form available during the draft general permit public notice period. The department shall provide the application form to the regional administrator along with the draft and final general permit as required in WAC 173-226-140.

(5) Any previously issued individual permit shall remain in effect until terminated in writing by the department, except that continuation of an expired individual permit, pursuant to WAC 173-220-180(5), shall terminate upon coverage by the general permit.

(6) Where the department has determined that a discharger should not be covered under a general permit, it shall respond in writing within sixty days of receipt of an application for coverage stating the reason(s) why coverage cannot become effective and any actions needed to be taken by the discharger in order for coverage under the general permit to become effective.

(7) When an individual permit is issued to a discharger otherwise subject to a general permit, the applicability of the general permit to that permittee is automatically terminated on the effective date of the individual permit.

(8) Coverage under a general permit for domestic wastewater facilities shall be issued only to a public entity, except in the following circumstances:

(a) Facilities existing or approved for construction with private operation on or before the effective date of this chapter, until such time as the facility is expanded; or

(b) Facilities that serve a single nonresidential, industrial, or commercial establishment. Commercial/industrial complexes serving multiple owners or tenants and multiple residential dwelling facilities, such as mobile home parks, apartments, and condominiums, are not considered single commercial establishments for the purpose of this subsection.

(9) Coverage under a general permit for domestic wastewater facilities that are owned by nonpublic entities and under contract to a public entity, shall be issued to the public entity.

[Statutory Authority: Chapter 90.48 RCW. 93-10-099 (Order 92-55), § 173-226-200, filed 5/5/93, effective 5/19/93.]

WAC 173-226-210 Transfer of permit coverage. Coverage under a general permit is automatically transferred to a new discharger if:

(1) A written, signed agreement between the old and new discharger containing a specific date for transfer of permit responsibility, coverage, and liability is submitted to the director; and

(2) The director does not notify the old and new discharger of the director's intent to revoke coverage under the general permit. If this notice is not given, the transfer is effective on the date specified in the agreement mentioned in subsection (1) of this section.

[Statutory Authority: Chapter 90.48 RCW. 93-10-099 (Order 92-55), § 173-226-210, filed 5/5/93, effective 5/19/93.]

WAC 173-226-220 Duration and replacement of permits. (1) General permits shall be issued for fixed terms not exceeding five years from the effective date.

(2) All permittees covered under a general permit shall submit a new application for coverage under a general permit or an application for an individual permit at least one hundred eighty days prior to the expiration date of the general permit under which the permittee is covered.

(3) When a permittee has made timely and sufficient application for the renewal of coverage under a general permit, an expiring general permit remains in effect and enforceable until:

(a) The application has been denied;

(b) A replacement permit has been issued by the department; or

(c) The expired general permit has been canceled by the department.

(4) Coverage under an expired general permit for permittees who fail to submit a timely and sufficient application shall expire on the expiration date of the general permit.

[Statutory Authority: Chapter 90.48 RCW. 93-10-099 (Order 92-55), § 173-226-220, filed 5/5/93, effective 5/19/93.]

WAC 173-226-230 Modification and revocation of general permits. (1) A general permit may be modified, revoked and reissued, or terminated, during its term for cause including, but not limited to, the following:

(a) A change occurs in the technology or practices for control or abatement of pollutants applicable to the category of dischargers covered under the general permit;

(b) Effluent limitation guidelines or standards are promulgated pursuant to the FWPCA or chapter 90.48 RCW, for the category of dischargers covered under the general permit;

(c) A water quality management plan containing requirements applicable to the category of dischargers covered under the general permit is approved;

(d) Information is obtained which indicates that cumulative effects on the environment from dischargers covered under the general permit are unacceptable; or

(e) A toxic effluent standard or prohibition (including any schedule of compliance specified in such effluent standard or prohibition) is established under section 307(a) of the FWPCA for a toxic pollutant which is more stringent than any limitation upon such pollutant in the permit.

(2) In the event that the director has determined to modify or revoke, in whole or in part, a general permit pursuant to subsection (1) of this section the director shall notify, in writing, all dischargers covered under the general permit. The notification shall include:

(a) The reason(s) why the general permit is being revoked or modified;

(b) The process for appealing the determination pursuant to RCW 43.21B.310;

(c) An application form and a time limit for submitting the application; and

(d) Any other information determined to be relevant by the department.

[Statutory Authority: Chapter 90.48 RCW. 93-10-099 (Order 92-55), § 173-226-230, filed 5/5/93, effective 5/19/93.]

WAC 173-226-240 Revocation of coverage under a general permit. (1) The director may terminate coverage under a general permit for cause. Cases where coverage under a general permit may be terminated include, but are not limited to, the following:

(a) Violation of any term or condition of the general permit;

(b) Obtaining coverage under a general permit by misrepresentation or failure to disclose fully all relevant facts;

(c) A change in any condition that requires either a temporary or permanent reduction or elimination of the permitted discharge;

(d) A determination that the permitted activity endangers human health, safety, or the environment, or contributes to water or sediment quality standards violations;

(e) Incorporation of an approved local pretreatment program into a municipality's permit;

(f) Failure of the permittee to satisfy the public notice requirements of WAC 173-226-130(5);

(g) Failure or refusal of the permittee to allow entry as required in RCW 90.48.090; or

(h) Nonpayment of permit fees assessed pursuant to RCW 90.48.465.

(2) The director may require any discharger to apply for and obtain an individual permit, or to apply for and obtain coverage under another more specific general permit. In cases where the director requires any discharger to apply for an individual permit, or for another general permit, the discharger must be notified in writing that another permit is required. This notice shall include a statement of why another permit is being required, an application form, and a time limit for submitting the application.

(3) Any interested person may petition the director to require a discharger authorized by a general permit to apply for and obtain an individual permit.

(4) Any discharger authorized by a general permit may request to be excluded from coverage under a general permit by applying for an individual permit. The discharger shall submit to the director an application as described in WAC 173-220-040 with reasons supporting the request. The director shall either issue an individual permit or deny the request with a statement explaining the reason for denial.

(5) Where the department has determined that a discharger should no longer be covered under a general permit it shall notify the discharger in writing stating the reason(s) why coverage is no longer appropriate, and any actions required of the discharger in order for coverage under the general permit to remain effective.

(6) The discharger shall have thirty days to respond to any notification provided pursuant to subsection (5) of this section before coverage under a general permit shall be automatically revoked.

[Statutory Authority: Chapter 90.48 RCW. 93-10-099 (Order 92-55), § 173-226-240, filed 5/5/93, effective 5/19/93.]

WAC 173-226-250 Enforcement. (1) The department, with the assistance of the attorney general, may sue in courts of competent jurisdiction to enjoin any threatened or continuing violations of any general permits or conditions thereof without the necessity of a prior revocation of coverage under the general permit.

(2) The department may enter any premises in which an effluent source is located or in which records are required to be kept under terms or conditions of a general permit, and otherwise be able to investigate, inspect, or monitor any suspected violations of water quality standards, or effluent standards and limitations, or of general permit terms or conditions thereof.

(3) The department may assess or, with the assistance of the attorney general, sue to recover in court, such civil fines, penalties, and other civil relief as may be appropriate for the violation by any person of:

(a) Any effluent standards and limitations or water quality standards;

(b) Any general permit or term or condition thereof;

(c) Any filing requirements;

(d) Any duty to permit or carry out inspection, entry, or monitoring activities; or

(e) Any rules, regulations, or orders issued by the department.

(4) The department may request the prosecuting attorney to seek criminal sanctions for the violation by such persons of:

(a) Any effluent standards and limitations or water quality standards;

(b) Any permit or term or condition thereof; or

(c) Any filing requirements.

(5) The department, with the assistance of the prosecuting attorney, may seek criminal sanctions against any person who knowingly makes any false statement, representation, or certification in any form or any notice or report required by the terms and conditions of any issued permit or knowingly renders inaccurate any monitoring device or method required to be maintained by the department.

[Statutory Authority: Chapter 90.48 RCW. 93-10-099 (Order 92-55), § 173-226-250, filed 5/5/93, effective 5/19/93.]

Chapter 173-230 WAC

CERTIFICATION OF OPERATORS OF WASTEWATER TREATMENT PLANTS

WAC

173-230-010	What is the purpose of this regulation?
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173-230-130	Violations.
173-230-140	Classification of wastewater treatment plants.

DISPOSITION OF SECTIONS FORMERLY CODIFIED IN THIS CHAPTER

173-230-030	Duties of the board. [Statutory Authority: RCW 70.95B.040. 87-22-006 (Order 87-36), § 173-230-030, filed 10/23/87; 78-11-016 (Order DE 78-16), § 173-230-030, filed 10/11/78; Order 73-30, § 173-230-030, filed

	11/9/73.] Repealed by 99-24-117 (Order 98-18), filed 12/1/99, effective 1/1/00. Statutory Authority: Chapter 70.95B RCW.
173-230-050	Certification prerequisites. [Statutory Authority: RCW 70.95B.040. 87-22-006 (Order 87-36), § 173-230-050, filed 10/23/87. Statutory Authority: Chapter 70.95B RCW. 82-09-056 (Order DE 82-07), § 173-230-050, filed 4/16/82. Statutory Authority: RCW 70.95B.040. 78-11-016 (Order DE 78-16), § 173-230-050, filed 10/11/78; Order 73-30, § 173-230-050, filed 11/9/73.] Repealed by 99-24-117 (Order 98-18), filed 12/1/99, effective 1/1/00. Statutory Authority: Chapter 70.95B RCW.
173-230-060	Applications. [Order 73-30, § 173-230-060, filed 11/9/73.] Repealed by 82-09-056 (Order DE 82-07), filed 4/16/82. Statutory Authority: Chapter 70.95B RCW.

WAC 173-230-010 What is the purpose of this regulation? When wastewater treatment plants are properly operated, public health and the state's waters are protected. Operators must meet minimum standards to assure they are competent to operate and maintain wastewater treatment plants. This rule establishes the requirements for obtaining a wastewater certificate and for the level of certificate required for an operator in responsible charge of a treatment plant. An operator in responsible charge of a wastewater treatment plant must be certified at a level that is equal to or greater than the classification of the wastewater treatment plant.

[Statutory Authority: Chapter 70.95B RCW. 99-24-117 (Order 98-18), § 173-230-010, filed 12/1/99, effective 1/1/00. Statutory Authority: RCW 70.95B.040. 87-22-006 (Order 87-36), § 173-230-010, filed 10/23/87. Statutory Authority: Chapter 70.95B RCW. 82-09-056 (Order DE 82-07), § 173-230-010, filed 4/16/82. Statutory Authority: RCW 70.95B.040. 78-11-016 (Order DE 78-16), § 173-230-010, filed 10/11/78; Order 73-30, § 173-230-010, filed 11/9/73.]

WAC 173-230-020 Definitions. (1) "Activated sludge process" means a biological wastewater treatment process in which a mixture of wastewater and activated sludge is agitated and aerated. The activated sludge is subsequently separated from the treated wastewater by sedimentation and wasted or returned to the process as needed.

(2) "Biofiltration" means the process of passing a liquid through a biological filter that contains fixed media on surfaces which develop zoogleal films that absorb and adsorb fine suspended, colloidal, and dissolved solids and release end products of biochemical action.

(3) "Certificate" means the certificate of competency issued by the director stating that an individual has met the requirements for a specific classification in the wastewater treatment plant operator's certification program.

(4) "Certificate holder" means the individual to whom a certificate is issued.

(5) "CEU" means continuing education unit that is a nationally recognized unit of measurement similar to college credit. One CEU is awarded for every ten contact hours of participation in an organized continuing education experience under responsible sponsorship, capable direction, and qualified instruction.

(6) "College credits" means credits earned toward a college degree or in course work that is relevant to the operation of a wastewater treatment plant. College credit also means CEUs. Forty-five CEUs equals forty-five quarter credits equals thirty semester credits.

(7) "Department" means the Washington state department of ecology.

(8) "Director" means the director of the department of ecology or the director's designee.

(9) "Extended aeration" means a modification of the activated sludge process that uses long aeration periods and long mean cell residence times for aerobic digestion of the biological mass by endogenous respiration and promotes the growth of nitrifying organisms.

(10) "GED" means a General Education Development certificate issued by a recognized education institution. A GED is equivalent to a high school diploma.

(11) "Group" and "class" for the purpose of operator certification and wastewater treatment plant classification are the same.

(12) "Lagoon" means any large holding or detention pond, usually with earthen dikes that is used to contain wastewater while sedimentation and biological stabilization occurs.

(13) "OIT" means operator-in-training. This is the entry level certification classification offered by the department.

(14) "Operating experience" means the routine performance of duties, on-site in a wastewater treatment plant, that affect plant performance or effluent quality.

(15) "Operator" means an individual who performs routine duties, on-site at a wastewater treatment plant, that affect plant performance or effluent quality.

(16) "Operator in charge of each shift" means the individual on-site at a wastewater treatment plant whose primary responsibility is to operate the wastewater treatment plant on a regularly run shift. The operator in charge of each shift is subordinate to the operator in responsible charge.

(17) "Operator in responsible charge" means the individual who is routinely on-site and in direct charge of the overall operation of a wastewater treatment plant.

(18) "Owner" means in the case of:

- A town or city, the city or town acting through its chief executive officer or the lessee if operated under a lease or contract;
- A county, the chairman of the county legislative authority or the chairman's designee;
- A sewer district, board of public utilities, association, municipality or other public body, the president or chairman of the body or the president's or chairman's designee;
- A privately owned wastewater treatment plant, the legal owner.

(19) "Primary wastewater treatment" means unit processes consisting of one or more of the following: Screening, comminution and grinding, flotation, precipitation, sludge pumping, and disinfection. Treatment consists of clarification followed by removal, treatment, and disposal of sludge.

(20) "Reciprocity" means the exchange of a valid out-of-state wastewater treatment plant operator's certificate achieved by passing a written examination for an equivalent level of certification without further examination.

(21) "Tertiary" means advanced physical/chemical or biological treatment of wastewater significantly beyond the conventional secondary stage to remove additional suspended and dissolved substances. These substances may include phosphorus and nitrogen, a high percentage of sus-

pended solids, dissolved inorganic solids, toxic compounds, microorganisms, and complex organic compounds.

(22) "Wastewater certification program coordinator" means an employee of the department who is appointed by the director and who administers the wastewater treatment plant operator certification program.

(23) "Wastewater collection system" means any system of lines, pipes, manholes, pumps, liftstations, or other facilities used to collect and transport wastewater.

(24) "Wastewater treatment plant" means a facility used to treat any liquid or waterborne waste of domestic origin or a combination of domestic, commercial or industrial origin, and that, by its design, requires the presence of an operator for its operation. It does not include any facility used exclusively by a single family residence, septic tanks with subsoil absorption, industrial wastewater treatment plants, or wastewater collection systems.

(25) "Wetlands treatment" means those wetlands intentionally constructed and managed for the primary purpose of wastewater treatment.

[Statutory Authority: Chapter 70.95B RCW. 99-24-117 (Order 98-18), § 173-230-020, filed 12/1/99, effective 1/1/00. Statutory Authority: RCW 70.95B.040. 87-22-006 (Order 87-36), § 173-230-020, filed 10/23/87. Statutory Authority: Chapter 70.95B RCW. 82-09-056 (Order DE 82-07), § 173-230-020, filed 4/16/82. Statutory Authority: RCW 70.95B.040. 78-11-016 (Order DE 78-16), § 173-230-020, filed 10/11/78; Order 73-30, § 173-230-020, filed 11/9/73.]

(2)

WAC 173-230-040 To whom does this rule apply? This rule applies to anyone who owns or operates a wastewater treatment plant.

The operator in charge of the wastewater treatment plant must be certified at least at a level equal to or higher than the classification of the plant. When the plant is operated on more than one daily shift, the operator in charge of each shift must be certified at a level not lower than one level below the classification of the plant.

All individuals operating wastewater treatment plants who are not required to be certified are encouraged to seek certification.

[Statutory Authority: Chapter 70.95B RCW. 99-24-117 (Order 98-18), § 173-230-040, filed 12/1/99, effective 1/1/00. Statutory Authority: RCW 70.95B.040. 87-22-006 (Order 87-36), § 173-230-040, filed 10/23/87. Statutory Authority: Chapter 70.95B RCW. 82-09-056 (Order DE 82-07), § 173-230-040, filed 4/16/82. Statutory Authority: RCW 70.95B.040. 78-11-016 (Order DE 78-16), § 173-230-040, filed 10/11/78; Order 73-30, § 173-230-040, filed 11/9/73.]

WAC 173-230-061 Levels of certificates and qualifications. (1) There are five levels of certification offered by the department to individuals who meet minimum qualifications. Those minimum qualifications include required levels of education and experience.

Qualification Requirements for Operator Certification

Certification level	Education required	Experience required	Substitutions allowed for education	Substitutions allowed for experience
Operator-in-Training	High school diploma or GED	3 months	One year of excess operating experience may be used for one year of high school or two years of grade school.	May use 3 college credits or CEUs in course work related to wastewater treatment plant operation for experience.
Group I	High school diploma or GED	1 year	One year of excess operating experience may be used for one year of high school or two years of grade school.	None.
Group II	High school diploma or GED	3 years	One year of excess operating experience may be used for one year of high school or two years of grade school.	May use relevant work experience or credits or CEUs for one year and six months of the operating experience.
Group III	High school diploma or GED and 2 years of college (90 credits or CEUs)	4 years with at least 2 years operating experience at a Class II plant	May use excess operating experience for college at a rate of one year of excess operating experience for half of the college (one year). Three years of excess operating experience may be used for the second year of college.	May use relevant work experience and/or excess credits for 2 years of the operating experience.

Qualification Requirements for Operator Certification				
Certification level	**Education required**	**Experience required**	**Substitutions allowed for education**	**Substitutions allowed for experience**
Group IV	High school diploma or GED and 4 years of college (180 credits or CEUs)	4 years with at least 2 years at a Class III plant	May use excess operating experience for college at a rate of one year of excess operating experience for one year of college for up to half of the college (two years). Three years of excess operating experience may be substituted for one year of college. This rate may be used for the remaining two years of college.	May use excess operating experience for credits. May use related work experience and/or excess credits for 2 years of the operating experience.

(3) Relevant work experience may be substituted for up to one-half of the operating experience required to qualify for the Group II, III and IV levels. This includes:

(a) Environmental or operations consultant;

(b) Environmental or an engineering branch of federal, state, county, or local government;

(c) Wastewater collection system operator;

(d) Water distribution system operator and/or manager;

(e) Wastewater pump station operator; or

(f) Water treatment plant operator.

Other related work experience may include building and equipment maintenance, boiler operation, machinist, laboratory technician, engineering, welding, or other related fields on a case-by-case basis with a written description of the duties performed on the job by the applicant.

(4) College credits substituted for an operating experience requirement cannot also be applied to the education requirement.

[Statutory Authority: Chapter 70.95B RCW. 99-24-117 (Order 98-18), § 173-230-061, filed 12/1/99, effective 1/1/00. Statutory Authority: RCW 70.95B.040. 87-22-006 (Order 87-36), § 173-230-061, filed 10/23/87. Statutory Authority: Chapter 70.95B RCW. 82-09-056 (Order DE 82-07), § 173-230-061, filed 4/16/82.]

WAC 173-230-065 How do I apply? Any person seeking certification must submit a completed application and fees to the department. Application forms are available from the wastewater certification program coordinator.

Applicants must meet minimum education and experience requirements to be eligible for examination or reciprocity. Applicants accepted for examination will be scheduled and notified of the date, place, time, and cost of the examination.

If the application is denied, the applicant will be notified of the reason for the denial.

[Statutory Authority: Chapter 70.95B RCW. 99-24-117 (Order 98-18), § 173-230-065, filed 12/1/99, effective 1/1/00.]

WAC 173-230-070 Examination. (1) The department will use written examinations to determine the competency of operators. If examinations are prepared by an organization other than the department, the applicant shall pay any costs associated with the use of the exam.

(2) Examinations will be held at least three times annually at places and times set by the department.

(3) The wastewater certification program coordinator or designee will score all exams. The applicant will be notified of the score.Examinations will not be returned to the applicant.

(4) Certificates will be issued to applicants who pass a written examination.

(5) An applicant who fails to pass the examination must reapply for further examination. No individual will be allowed to retake the same examination more than twice consecutively.

[Statutory Authority: Chapter 70.95B RCW. 99-24-117 (Order 98-18), § 173-230-070, filed 12/1/99, effective 1/1/00. Statutory Authority: RCW 70.95B.040. 87-22-006 (Order 87-36), § 173-230-070, filed 10/23/87. Statutory Authority: Chapter 70.95B RCW. 82-09-056 (Order DE 82-07), § 173-230-070, filed 4/16/82; Order 73-30, § 173-230-070, filed 11/9/73.]

WAC 173-230-080 Certificate term and renewal conditions. An owner may request a temporary certificate for an individual when the designated certified operator unexpectedly vacates the position. This request must be made in writing to the wastewater certification coordinator and must include an application and fee. The department may issue a temporary certificate at its discretion. A temporary certificate may not exceed a one-year period, is nonrenewable, and cannot be transferred to another individual.

(1) Except for a temporary certificate, a certificate is valid from January 1 until December 31 of the same year or the year designated by the department.

(2) Except for a temporary certificate, a certificate is renewable only when the certificate holder demonstrates and provides documentation to the department of continued professional growth in the field. The department will mail renewal notices to all certificate holders eligible to renew before the certificate expires.

(3) Each certificate holder must accomplish one of the following activities during a three-year period ending December 31, 1979, and each three-year period after that date.

(a) Accumulate a minimum of three CEUs or college credits in coursework relevant to the field;

(b) Advance by exam to a higher level of certification in Washington's wastewater treatment plant operator's certification program. Advancement from OIT to Group I certification will not fulfill this requirement;

(c) Achieve certification by examination in the waterworks certification program administered by the Washington department of health in the water treatment plant operator, water distribution manager, or the cross connection control specialist classifications;

(d) Achieve certification by examination or advance by examination to a higher level in Washington's voluntary wastewater collection system operator's certification program administered by the Washington Wastewater Collection System Personnel Association.

(4) It is the responsibility of each certificate holder to meet the professional growth requirement and document that growth to the department before December 31 of the last year of the three-year period described in subsection (3) of this section. The department will mail a written notice to each certificate holder who has not fulfilled the continued professional growth requirement. If this requirement is not satisfied, the certificate is not renewable. Failure to renew a certificate for any reason will be handled as described in WAC 173-230-100.

(5) The department may collect renewal fees for a period not to exceed three calendar years. The department will notify certificate holders who are eligible for renewal as described in subsection (2) of this section the amount of fees owed and the date the fees must be paid.

[Statutory Authority: Chapter 70.95B RCW. 99-24-117 (Order 98-18), § 173-230-080, filed 12/1/99, effective 1/1/00. Statutory Authority: RCW 70.95B.040. 87-22-006 (Order 87-36), § 173-230-080, filed 10/23/87. Statutory Authority: Chapter 70.95B RCW. 82-09-056 (Order DE 82-07), § 173-230-080, filed 4/16/82; Order 73-30, § 173-230-080, filed 11/9/73.]

WAC 173-230-090 Fees. (1) Applications for certification by examination or reciprocity or a temporary certificate will be accepted for processing only when accompanied by a fee of fifty dollars.

(2) Applications for reexamination will be accepted for processing only when accompanied by an application fee. The department may waive a portion of the application fee for reexamination.

(3) Application fees are nonrefundable.

(4) Applications for certificate renewals will be accepted for processing only when accompanied by a renewal fee of thirty dollars for each year of renewal.

(5) All receipts will be paid into the state general fund.

[Statutory Authority: Chapter 70.95B RCW. 99-24-117 (Order 98-18), § 173-230-090, filed 12/1/99, effective 1/1/00. Statutory Authority: RCW 70.95B.090 (1) and (2) and chapter 70.95B RCW. 91-13-058 (Order 90-61), § 173-230-090, filed 6/17/91, effective 7/18/91. Statutory Authority: RCW 70.95B.040. 87-22-006 (Order 87-36), § 173-230-090, filed 10/23/87; 78-11-016 (Order DE 78-16), § 173-230-090, filed 10/11/78; Order 73-30, § 173-230-090, filed 11/9/73.]

WAC 173-230-100 Suspension and revocation of a certificate. (1) When a certificate is not renewed, the director will notify the certificate holder that the certificate is suspended for sixty days. If the certificate is not renewed during the suspension period, the director will mail a written notice of revocation to the owner of the wastewater treatment plant employing the individual as last known by the department and to the certificate holder at the address last known by the department. The notice of revocation mailed to the certificate holder will be sent by certified mail. If, during the revocation notice period, the certificate is not renewed, the certificate will be revoked ten days after the notice is mailed.

(2) Certificates may also be revoked when the director finds:

(a) Fraud or deceit in obtaining the certificate.

(b) Gross negligence in the operation of a wastewater treatment plant.

(c) Violation of the requirements of this chapter or the statute it implements or of any lawful rule, regulation or order of the department.

(3) No revocation will be made under subsection (2) of this section unless the operator has been notified that revocation is proposed, been advised of the reason and been given an opportunity to appear before the director and be heard on the matter.

(4) A certificate will be suspended immediately when the director is notified by the department of social and health services that a person is not in compliance with a support order or a residential or visitation order. If the person has continued to meet all other requirements for reinstatement during the suspension, the certificate will be reissued when the director is notified by the department of social and health services that the person is in compliance with the order.

If a certificate is revoked, the individual must meet all conditions of certification including application, fees, and passing a written examination to become certified.

(5) If revocation was made due to subsection (2) of this section, the operator will not be eligible to reapply for a certificate for one year from the date the revocation became final.

[Statutory Authority: Chapter 70.95B RCW. 99-24-117 (Order 98-18), § 173-230-100, filed 12/1/99, effective 1/1/00. Statutory Authority: RCW 70.95B.040. 87-22-006 (Order 87-36), § 173-230-100, filed 10/23/87. Statutory Authority: Chapter 70.95B RCW. 82-09-056 (Order DE 82-07), § 173-230-100, filed 4/16/82. Statutory Authority: RCW 70.95B.040. 78-11-016 (Order DE 78-16), § 173-230-100, filed 10/11/78; Order 73-30, § 173-230-100, filed 11/9/73.]

WAC 173-230-110 Reciprocity. The director may waive examinations for applicants holding valid wastewater treatment plant operators certificates or licenses issued by other states that have equivalent standards as determined by the department or its designee.

(1) Applications for reciprocity will be considered for approval only when the department receives confirmation from the certifying authority of the state or province in which the applicant is certified that the certificate is currently valid and was earned by passing a written examination. A copy of the exam passed by the applicant must also be released for review by the department or its designee.

(2) Certificates will be issued to each reciprocity applicant who meets the minimum education and experience requirements for the certification level requested and who passes a written examination comparable to Washington's exam as determined and approved by the director.

[Statutory Authority: Chapter 70.95B RCW. 99-24-117 (Order 98-18), § 173-230-110, filed 12/1/99, effective 1/1/00. Statutory Authority: RCW 70.95B.040. 87-22-006 (Order 87-36), § 173-230-110, filed 10/23/87. Statutory Authority: Chapter 70.95B RCW. 82-09-056 (Order DE 82-07), § 173-230-110, filed 4/16/82; Order 73-30, § 173-230-110, filed 11/9/73.]

WAC 173-230-120 Appeals. Decisions of the director under this chapter may be appealed within thirty days from the date of notice to the pollution control hearings board as required by chapter 43.21B RCW and chapter 371-08 WAC.

[Statutory Authority: Chapter 70.95B RCW. 99-24-117 (Order 98-18), § 173-230-120, filed 12/1/99, effective 1/1/00; Order 73-30, § 173-230-120, filed 11/9/73.]

WAC 173-230-130 Violations. Violation of this chapter is a misdemeanor. Each day of operation in violation constitutes a separate offense. Upon conviction, violators are subject to fines not exceeding one hundred dollars for each offense. Injunctions may be obtained for continuing violations.

[Statutory Authority: Chapter 70.95B RCW. 99-24-117 (Order 98-18), § 173-230-130, filed 12/1/99, effective 1/1/00; Order 73-30, § 173-230-130, filed 11/9/73.]

WAC 173-230-140 Classification of wastewater treatment plants. The director shall classify all wastewater treatment plants according to the following criteria.

Treatment Plant Classification Criteria		
Treatment type	**Design flow MGD**	**Classification**
Primary	≤ 1	I
	> 1 ≤ 10	II
	> 10 ≤ 20	III
	> 20	IV
Lagoon (Nonaerated)	All	I
Lagoon (Aerated)	≤ 1	I
	> 1	II
Biofiltration	≤ 1	II
	> 1 ≤ 10	III
	> 10	IV
Extended aeration	≤ 5	II
	> 5	III
Activated sludge	≤ 1	II
	> 1 ≤ 10	III
	> 10	IV
Wetlands	≤ 1	I
	> 1 ≤ 5	II
	> 5	III
Tertiary	≤ 5	III
	> 5	IV

Plants may be classified in a group different than indicated in this section if:

(1) They have characteristics that make operation less complex or more difficult than other similar plants of the same flow range; or

(2) The conditions of flow or the use of the receiving waters require an unusually high degree of plant operational control; or

(3) They use an approved method of wastewater treatment that is not included in this section.

Beginning January 2000, the department may issue a one-time provisional certificate to the certified operator in responsible charge of a plant or the certified operator in charge of a shift at the plant only if the plant's rating level increased solely due to the adoption of the treatment type and design flow rating system. The provisional certificate will not apply if the rating of a plant increases due to an upgrade, to a change to treatment processes, or to flow. The provisional certificate will be issued only for the operation of a specific plant and may not be transferred if that certified operator leaves employment with that plant.

The holder of a provisional certificate must continue to meet all certificate renewal requirements.

[Statutory Authority: Chapter 70.95B RCW. 99-24-117 (Order 98-18), § 173-230-140, filed 12/1/99, effective 1/1/00. Statutory Authority: RCW 70.95B.040. 87-22-006 (Order 87-36), § 173-230-140, filed 10/23/87; 78-11-016 (Order DE 78-16), § 173-230-140, filed 10/11/78; Order 73-30, § 173-230-140, filed 11/9/73.]

Chapter 173-240 WAC

SUBMISSION OF PLANS AND REPORTS FOR CONSTRUCTION OF WASTEWATER FACILITIES

WAC

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173-240-105 Form—Certificate of construction of water pollution control facilities. [Statutory Authority: RCW 90.48.110. 79-02-033 (Order DE 78-10), § 173-240-105, filed 1/23/79. Formerly chapter 372-20 WAC.] Repealed by 83-23-063 (Order DE 83-30), filed 11/16/83. Statutory Authority: Chapters 43.21A and 90.48 RCW.

WAC 173-240-010 Purpose and scope. The purpose of this chapter is to implement RCW 90.48.110. The department interprets "plans and specifications" as mentioned in RCW 90.48.110 as including "engineering reports," "plans and specifications," and "general sewer plans," all as defined in WAC 173-240-020. This chapter also includes provisions for

review and approval of proposed methods of operation and maintenance.

[Statutory Authority: Chapters 43.21A and 90.48 RCW. 83-23-063 (Order DE 83-30), § 173-240-010, filed 11/16/83. Statutory Authority: RCW 90.48.110. 79-02-033 (Order DE 78-10), § 173-240-010, filed 1/23/79. Formerly chapter 372-20 WAC.]

WAC 173-240-020 Definitions. (1) "Approval" means written approval.

(2) "Construction quality assurance plan" means a plan describing the methods by which the professional engineer in responsible charge of inspection of the project will determine that the facilities were constructed without significant change from the department approved plans and specifications.

(3) "Department" means the Washington state department of ecology.

(4) "Domestic wastewater" means water carrying human wastes, including kitchen, bath, and laundry wastes from residences, buildings, industrial establishments or other places, together with the groundwater infiltration or surface waters that may be present.

(5) "Domestic wastewater facility" means all structures, equipment, or processes required to collect, carry away, treat, reclaim or dispose of domestic wastewater together with the industrial waste that may be present. In the case of subsurface sewage treatment and disposal, the term is restricted to mean those facilities treating and disposing of domestic wastewater only from:

(a) A septic tank system with subsurface sewage treatment and disposal and an ultimate design capacity exceeding fourteen thousand five hundred gallons per day at any common point; or

(b) A mechanical treatment system or lagoon followed by subsurface disposal with an ultimate design capacity exceeding three thousand five hundred gallons per day at any common point.

Where the proposed system using subsurface disposal has received a state construction grant or a federal construction grant under the Federal Water Pollution Control Act as amended, such a system is a "domestic wastewater facility" regardless of size.

(6) "Engineering report" means a document that thoroughly examines the engineering and administrative aspects of a particular domestic or industrial wastewater facility. The report shall contain the appropriate information required in WAC 173-240-060 or 173-240-130. In the case of a domestic wastewater facility project, the report describes the recommended financing method.

The facility plan described in federal regulation 40 CFR 35 is an "engineering report." This federal regulation describes the Environmental Protection Agency's municipal wastewater construction grants program.

(7) "General sewer plan" means the:

(a) Sewerage general plan adopted by counties under chapter 36.94 RCW; or

(b) Comprehensive plan for a system of sewers adopted by sewer districts under chapter 56.08 RCW; or

(c) Plan for a system of sewerage adopted by cities under chapter 35.67 RCW; or

(d) Comprehensive plan for a system of sewers adopted by water districts under chapter 57.08 RCW; or

(e) Plan for sewer systems adopted by public utility districts under chapter 54.16 RCW and by port districts under chapter 53.08 RCW.

(f) The "general sewer plan" is a comprehensive plan for a system of sewers adopted by a local government entity. The plan includes the items specified in each respective statute. It includes the general location and description of treatment and disposal facilities, trunk and interceptor sewers, pumping stations, monitoring and control facilities, local service areas and a general description of the collection system to serve those areas. The plan also includes preliminary engineering in adequate detail to assure technical feasibility, provides for the method of distributing the cost and expense of the sewer system, and indicates the financial feasibility of plan implementation.

(8) "Industrial wastewater" means the water or liquid that carries waste from industrial or commercial processes, as distinct from domestic wastewater. These wastes may result from any process or activity of industry, manufacture, trade or business, from the development of any natural resource, or from animal operations such as feedlots, poultry houses, or dairies. The term includes contaminated stormwater and also leachate from solid waste facilities.

(9) "Industrial wastewater facility" means all structures, equipment, or processes required to collect, carry away, treat, reclaim or dispose of industrial wastewater.

(10) "Owner" means the state, county, city, town, federal agency, corporation, firm, company, institution, person or persons, or any other entity owning a domestic or industrial wastewater facility.

(11) "Plans and specifications" means the detailed drawings and specifications used in the construction or modification of domestic or industrial wastewater facilities. Except as otherwise allowed, plans and specifications are preceded by an approved engineering report. For some industrial facilities final conceptual drawings for all or parts of the system may be substituted for plans and specifications with the permission of the department.

(12) "Sewerage system" means a system of sewers and appurtenances for the collection, transportation, pumping, treatment and disposal of domestic wastewater together with industrial waste that may be present. By definition a sewerage system is a "domestic wastewater facility."

(13) "Sewer line extension" means any pipe added or connected to an existing sewerage system, together with any pump stations: Provided, That the term does not include gravity side sewers that connect individual building or dwelling units to the sewer system when these side sewers are less than one hundred fifty feet in length and not over six inches in diameter.

(14) "Subsurface sewage treatment and disposal" means the physical, chemical, or bacteriological treatment and disposal of domestic wastewater within the soil profile by placement beneath the soil surface in trenches, beds, seepage pits, mounds, or fills.

(15) "Waters of the state" means all lakes, rivers, ponds, streams, inland waters, ground waters, salt waters, and all

other waters and watercourses within the jurisdiction of the state of Washington.

[Statutory Authority: RCW 90.48.110. 00-15-021 (Order 00-09), § 173-240-020, filed 7/11/00, effective 8/11/00. Statutory Authority: Chapters 43.21A and 90.48 RCW. 83-23-063 (Order DE 83-30), § 173-240-020, filed 11/16/83. Statutory Authority: RCW 90.48.110. 79-02-033 (Order DE 78-10), § 173-240-020, filed 1/23/79. Formerly WAC 372-20-010.]

DOMESTIC WASTEWATER FACILITIES

WAC 173-240-030 Submission of plans and reports. (1) Before constructing or modifying domestic wastewater facilities, engineering reports and plans and specifications for the project must be submitted to and approved by the department, except as noted in WAC 173-240-030(5).

(2) All reports and plans and specifications must be submitted by the owner or the owner's authorized representative consistent with a compliance schedule issued by the department or at least sixty days before the time approval is desired.

(3) Construction or modification of domestic wastewater facilities shall conform to the following schedule of tasks unless otherwise modified by these rules:

(a) Submission and approval of engineering report;

(b) Submission and approval of plans and specifications;

(c) Submission and approval of construction quality assurance plan;

(d) Submission and approval of draft operation and maintenance manual;

(e) Declaration of completion of construction by the project engineer; and

(f) Submission of complete operation and maintenance manual.

(4) Where two or more years has lapsed since approval of the engineering report or plans and specifications and construction has not begun, it may be necessary to update that document to reflect changed conditions such as: Water quality, services availability, regulatory requirements, or engineering technology.

(5) If the local government entity has received department approval of a general sewer plan and standard design criteria, engineering reports and plans and specifications for sewer line extensions, including pump stations, are not required to be submitted for approval. In this case the entity need only provide a description of the project and written assurance that the extension is in conformance with the general sewer plan. However, in the following situations specific department approval is necessary for sewer line extensions before construction:

(a) The proposed sewers, or pump stations involve installation of overflows or bypasses; or

(b) The proposed sewers, pump or lift stations discharge to an overloaded treatment, collection, or disposal facility.

[Statutory Authority: RCW 90.48.110. 00-15-021 (Order 00-09), § 173-240-030, filed 7/11/00, effective 8/11/00. Statutory Authority: Chapters 43.21A and 90.48 RCW. 83-23-063 (Order DE 83-30), § 173-240-030, filed 11/16/83. Statutory Authority: RCW 90.48.110. 79-02-033 (Order DE 78-10), § 173-240-030, filed 1/23/79. Formerly chapter 372-20 WAC.]

WAC 173-240-035 Restrictions—Subsurface disposal systems. Domestic wastewater facilities using subsurface sewage treatment and disposal, as defined in WAC 173-240-020(5), are prohibited except under those extraordinary circumstances where no other reasonable alternatives exist and: Providing that

(1) The facility is owned, operated, and maintained by a public entity, except as noted in WAC 173-240-104; and

(2) Adequate facility construction oversight is provided by the public entity; and

(3) The proposed project is consistent with local health and land use rules; and

(4) Loading rates do not exceed 1,570 gallons per day per acre of gross land area in medium sands or finer grained soils and may not exceed 900 gallons per day per acre of gross land in coarser grained soils or other soils where conditions do not provide for adequate treatment. For the purposes of this section gross land area is defined as the contiguous land area of a proposed development that might include the centerline of adjoining road or street right-of-ways.

[Statutory Authority: RCW 90.48.110. 00-15-021 (Order 00-09), § 173-240-035, filed 7/11/00, effective 8/11/00. Statutory Authority: Chapters 43.21A and 90.48 RCW. 83-23-063 (Order DE 83-30), § 173-240-035, filed 11/16/83.]

WAC 173-240-040 Review standards. (1) The department will review general sewer plans, engineering reports, plans and specifications, and operation and maintenance manuals for domestic wastewater facilities to determine whether the proposed facilities will be designed, constructed, operated, and maintained to meet effluent limitations and other requirements of an NPDES or state waste discharge permit, if applicable, and to meet the policies and requirements of chapters 90.48 and 90.54 RCW pertaining to prevention and control of pollution of waters of the state.

(2) In addition to the above, the department will review documents submitted under this chapter to determine whether they are reasonably consistent with the appropriate sections of the state of Washington, "Criteria for sewage works design." Additional references may include, but are not limited to, the following:

(a) Manuals of Practice, Water Pollution Control Federation.

(b) Manuals of Engineering Practice, American Society of Civil Engineering.

(c) Standard Specifications for Municipal Public Works Construction, American Public Works Association.

(d) Considerations for Preparation of Operation and Maintenance Manuals, United States Environmental Protection Agency.

(e) Process Design Manuals, United States Environmental Protection Agency.

(f) Design Criteria for Mechanical, Electric, and Fluid System and Component Reliability, United States Environmental Protection Agency.

(g) Design Manual: Onsite Wastewater Treatment and Disposal Systems, U.S.E.P.A. October 1980.

(h) Guidelines for Larger On-Site Sewage Disposal Systems, Washington State Department of Social and Health Services and Department of Ecology.

[Statutory Authority: RCW 90.48.110. 00-15-021 (Order 00-09), § 173-240-040, filed 7/11/00, effective 8/11/00. Statutory Authority: Chapters 43.21A and 90.48 RCW. 83-23-063 (Order DE 83-30), § 173-240-040, filed

11/16/83. Statutory Authority: RCW 90.48.110. 79-02-033 (Order DE 78-10), § 173-240-040, filed 1/23/79. Formerly chapter 372-20 WAC.]

WAC 173-240-050 General sewer plan. (1) All general sewer plans required of any governmental agency before providing sewer service are "plans" within the requirements of RCW 90.48.110. Three copies of the proposed general sewer plan and each amendment to it must be submitted to and approved by the department before implementing the plan.

(2) The general sewer plan must be sufficiently complete so that engineering reports can be developed from it without substantial alterations of concept and basic considerations.

(3) The general sewer plan shall include the following information together with any other relevant data as requested by the department. To satisfy the requirements of the local government jurisdiction, additional information may be necessary.

(a) The purpose and need for the proposed plan.

(b) A discussion of who will own, operate, and maintain the systems.

(c) The existing and proposed service boundaries.

(d) Layout map including the following:

(i) Boundaries. The boundary lines of the municipality or special district to be sewered, including a vicinity map;

(ii) Existing sewers. The location, size, slope, capacity, direction of flow of all existing trunk sewers, and the boundaries of the areas served by each;

(iii) Proposed sewers. The location, size, slope, capacity, direction of flow of all proposed trunk sewers, and the boundaries of the areas to be served by each;

(iv) Existing and proposed pump stations and force mains. The location of all existing and proposed pumping stations and force mains, designated to distinguish between those existing and proposed;

(v) Topography and elevations. Topography showing pertinent ground elevations and surface drainage must be included, as well as proposed and existing streets;

(vi) Streams, lakes, and other bodies of water. The location and direction of flow of major streams, the high and low elevations of water surfaces at sewer outlets, and controlled overflows, if any. All existing and potential discharge locations should be noted; and

(vii) Water systems. The location of wells or other sources of water supply, water storage reservoirs and treatment plants, and water transmission facilities.

(e) The population trend as indicated by available records, and the estimated future population for the stated design period. Briefly describe the method used to determine future population trends and the concurrence of any applicable local or regional planning agencies.

(f) Any existing domestic or industrial wastewater facilities within twenty miles of the general plan area and within the same topographical drainage basin containing the general plan area.

(g) A discussion of any infiltration and inflow problems and a discussion of actions that will alleviate these problems in the future.

(h) A statement regarding provisions for treatment and discussion of the adequacy of the treatment.

(i) List of all establishments producing industrial wastewater, the quantity of wastewater and periods of production, and the character of the industrial wastewater insofar as it may affect the sewer system or treatment plant. Consideration must be given to future industrial expansion.

(j) Discussion of the location of all existing private and public wells, or other sources of water supply, and distribution structures as they are related to both existing and proposed domestic wastewater treatment facilities.

(k) Discussion of the various alternatives evaluated, and a determination of the alternative chosen, if applicable.

(l) A discussion, including a table, that shows the cost per service in terms of both debt service and operation and maintenance costs, of all facilities (existing and proposed) during the planning period.

(m) A statement regarding compliance with any adopted water quality management plan under the Federal Water Pollution Control Act as amended.

(n) A statement regarding compliance with the State Environmental Policy Act (SEPA) and the National Environmental Policy Act (NEPA), if applicable.

[Statutory Authority: RCW 90.48.110. 00-15-021 (Order 00-09), § 173-240-050, filed 7/11/00, effective 8/11/00. Statutory Authority: Chapters 43.21A and 90.48 RCW. 83-23-063 (Order DE 83-30), § 173-240-050, filed 11/16/83. Statutory Authority: RCW 90.48.110. 79-02-033 (Order DE 78-10), § 173-240-050, filed 1/23/79. Formerly chapter 372-20 WAC.]

WAC 173-240-060 Engineering report. (1) The engineering report for a domestic wastewater facility shall include each appropriate (as determined by the department) item required in WAC 173-240-050 for general sewer plans unless an up-to-date general sewer plan is on file with the department. Normally, an engineering report is not required for sewer line extensions or pump stations. See WAC 173-240-020(13) and 173-240-030(5). The facility plan described in federal rule 40 CFR 35 is an "engineering report."

(2) The engineering report must be sufficiently complete so that plans and specifications can be developed from it without substantial changes. Three copies of the report must be submitted to the department for approval, except as waived under WAC 173-240-030(5).

(3) The engineering report shall include the following information together with any other relevant data as requested by the department:

(a) The name, address, and telephone number of the owner of the proposed facilities, and the owner's authorized representative.

(b) A project description that includes a location map and a map of the present and proposed service area.

(c) A statement of the present and expected future quantity and quality of wastewater, including any industrial wastes that may be present or expected in the sewer system.

(d) The degree of treatment required based upon applicable permits and rules, the receiving body of water, the amount and strength of wastewater to be treated, and other influencing factors.

(e) A description of the receiving water, applicable water quality standards, and how water quality standards will be met outside any applicable dilution zone.

(f) The type of treatment process proposed, based upon the character of the wastewater to be handled, the method of disposal, the degree of treatment required, and a discussion of the alternatives evaluated and the reasons they are unacceptable.

(g) The basic design data and sizing calculations of each unit of the treatment works. Expected efficiencies of each unit and also of the entire plant, and character of effluent anticipated.

(h) Discussion of the various sites available and the advantages and disadvantages of the site or sites recommended. The proximity of residences or developed areas to any treatment works. The relationship of the twenty-five-year and one hundred-year flood to the treatment plant site and the various plant units.

(i) A flow diagram that shows general layout of the various units, the location of the effluent discharge, and a hydraulic profile of the system that is the subject of the engineering report and any hydraulically related portions.

(j) A discussion of infiltration and inflow problems, overflows and bypasses, and proposed corrections and controls.

(k) A discussion of any special provisions for treating industrial wastes, including any pretreatment requirements for significant industrial sources.

(l) Detailed outfall analysis or other disposal method selected.

(m) A discussion of the method of final sludge disposal and any alternatives considered.

(n) Provision for future needs.

(o) Staffing and testing requirements for the facilities.

(p) An estimate of the costs and expenses of the proposed facilities and the method of assessing costs and expenses. The total amount shall include both capital costs and also operation and maintenance costs for the life of the project, and must be presented in terms of total annual cost and present worth.

(q) A statement regarding compliance with any applicable state or local water quality management plan or any plan adopted under the Federal Water Pollution Control Act as amended.

(r) A statement regarding compliance with the State Environmental Policy Act (SEPA) and the National Environmental Policy Act (NEPA), if applicable.

(4) The engineering report for projects that use land application, including seepage lagoons, irrigation, and subsurface disposal, shall include information on the following together with appropriate parts of subsection (3) of this section, as determined by the department:

(a) Soils and their permeability;

(b) Geohydrologic evaluation of factors such as:

(i) Depth to ground water and ground water movement during different times of the year;

(ii) Water balance analysis of the proposed discharge area;

(iii) Overall effects of the proposed facility upon the ground water in conjunction with any other land application facilities that may be present;

(c) Availability of public sewers;

(d) Reserve areas for additional subsurface disposal.

(5) The engineering report for projects funded by the Environmental Protection Agency shall, in addition to the requirements of subsection (3) or (4) of this section, follow EPA facility plan guidelines contained in the EPA publication, "Guidance for Preparing a Facility Plan" (MCD-46), and shall indicate how the special requirements contained in 40 CFR 35.719-1 will be met.

[Statutory Authority: RCW 90.48.110. 00-15-021 (Order 00-09), § 173-240-060, filed 7/11/00, effective 8/11/00. Statutory Authority: Chapters 43.21A and 90.48 RCW. 83-23-063 (Order DE 83-30), § 173-240-060, filed 11/16/83. Statutory Authority: RCW 90.48.110. 79-02-033 (Order DE 78-10), § 173-240-060, filed 1/23/79. Formerly chapter 372-20 WAC.]

WAC 173-240-070 Plans and specifications. (1) The plans and specifications for a domestic wastewater facility are the detailed construction documents by which the owner or his or her contractor bid and construct the facility. The content and format of the plans and specifications must be as stated in the state of Washington, "Criteria for sewage works design," and shall include a list of the facility design criteria and a plan for interim operation of facilities during construction.

(2) Plans and specifications for sewer line extensions shall include, as a separate report, an analysis of the existing collection and treatment system's ability to transport and treat additional flow and loading.

(3) Two copies of the plans and specifications must be submitted to the department for approval before starting construction, except as waived under WAC 173-240-030(5).

[Statutory Authority: RCW 90.48.110. 00-15-021 (Order 00-09), § 173-240-070, filed 7/11/00, effective 8/11/00. Statutory Authority: Chapters 43.21A and 90.48 RCW. 83-23-063 (Order DE 83-30), § 173-240-070, filed 11/16/83. Statutory Authority: RCW 90.48.110. 79-02-033 (Order DE 78-10), § 173-240-070, filed 1/23/79. Formerly chapter 372-20 WAC.]

WAC 173-240-075 Construction quality assurance plan. (1) Before construction a detailed plan must be submitted to the department that shows how adequate and competent construction inspection will be provided.

(2) The construction quality assurance plan shall include a:

(a) Construction schedule with a summary of planned construction activities, their sequence, interrelationships, durations, and terminations.

(b) Description of the construction management organization, management procedures, lines of communication, and responsibility.

(c) Description of anticipated quality control testing that includes type of test, frequency, and who will perform the tests.

(d) Description of the change order process that includes who will initiate change orders, as well as who will review, negotiate, and approve change orders.

(e) Description of the technical records handling methodology that includes where plans and specifications, as-built drawings, field orders, and change orders will be kept.

(f) Description of the construction inspection program that includes inspection responsibility, anticipated inspection frequency, deficiency resolution, and inspector qualifications.

[Statutory Authority: RCW 90.48.110. 00-15-021 (Order 00-09), § 173-240-075, filed 7/11/00, effective 8/11/00. Statutory Authority: Chapters 43.21A and 90.48 RCW. 83-23-063 (Order DE 83-30), § 173-240-075, filed 11/16/83.]

WAC 173-240-080 Operation and maintenance manual. (1) The proposed method of operation and maintenance of the domestic wastewater facility must be stated in the engineering report or plans and specifications and must be approved by the department. The statement must be a discussion of who will own, operate, and maintain the facility and what the staffing and testing requirements are. The owner shall follow the approved method of operation after the facility is constructed, unless changes have been approved by the department.

(2) In those cases where the facility includes mechanical components, a detailed operation and maintenance manual must be prepared before completing the construction. The purpose of the manual is to present technical guidance and regulatory requirements to the operator to enhance operation under both normal and emergency conditions. Two copies of the manual must be submitted to the department for approval before completing the construction.

(3) In order to assure proper operation during construction and timely review and approval of the final operation and maintenance manual, a draft manual must be submitted in the early stages of the construction of a facility. In addition, manufacturer's information on equipment must be available to the plant operator before unit start-up.

(4) The operation and maintenance manual shall include the following list of topics. For those projects funded by the Environmental Protection Agency the manual shall also follow the requirements of the EPA publication, "Considerations for Preparation of Operation and Maintenance Manuals."

(a) The assignment of managerial and operational responsibilities, including plant classification and classification of required operators.

(b) A description of plant type, flow pattern, operation, and efficiency expected.

(c) The principal design criteria.

(d) A process description of each plant unit, including function, relationship to other plant units, and schematic diagrams.

(e) A discussion of the detailed operation of each unit and description of various controls, recommended settings, fail-safe features, etc.

(f) A discussion of how the treatment facilities are to be operated during anticipated maintenance procedures, and under less than design loading conditions, if applicable, such as initial loading on a system designed for substantial growth.

(g) A section on laboratory procedures, including sampling techniques, monitoring requirements, and sample analysis.

(h) Recordkeeping procedures and sample forms to be used.

(i) A maintenance schedule that incorporates manufacturer's recommendations, preventative maintenance and housekeeping schedules, and special tools and equipment usage.

(j) A section on safety.

(k) A section that lists the spare parts inventory, address of local suppliers, equipment warranties, and appropriate equipment catalogues.

(l) Emergency plans and procedures.

(5) In those cases where the facility does not include mechanical components, an operation and maintenance manual, which may be less detailed than that described in subsection (4) of this section, must be submitted to the department for approval before completing construction. The manual shall fully describe the treatment and disposal system and outline routine maintenance procedures needed for proper operation of the system.

[Statutory Authority: RCW 90.48.110. 00-15-021 (Order 00-09), § 173-240-080, filed 7/11/00, effective 8/11/00. Statutory Authority: Chapters 43.21A and 90.48 RCW. 83-23-063 (Order DE 83-30), § 173-240-080, filed 11/16/83. Statutory Authority: RCW 90.48.110. 79-02-033 (Order DE 78-10), § 173-240-080, filed 1/23/79. Formerly chapter 372-20 WAC.]

WAC 173-240-090 Declaration of construction completion. (1) Within thirty days after acceptance by the owner of the construction or modification of a domestic wastewater facility, the professional engineer in responsible charge of inspection of the project shall submit to the department:

(a) One complete set of record drawings or as-builts;

(b) A declaration stating the facilities were constructed in accordance with the provisions of the construction quality assurance plan and without significant change from the department approved plans and specifications.

(2) The declaration will be furnished by the department and will be the same form as WAC 173-240-095, declaration of construction of water pollution control facilities. The submission of the declaration is not necessary for sewer line extensions where the local government entity has received approval of a general sewer plan and standard design criteria.

[Statutory Authority: RCW 90.48.110. 00-15-021 (Order 00-09), § 173-240-090, filed 7/11/00, effective 8/11/00. Statutory Authority: Chapters 43.21A and 90.48 RCW. 83-23-063 (Order DE 83-30), § 173-240-090, filed 11/16/83. Statutory Authority: RCW 90.48.110. 79-02-033 (Order DE 78-10), § 173-240-090, filed 1/23/79. Formerly chapter 372-20 WAC.]

WAC 173-240-095 Form—Declaration of construction of water pollution control facilities.

DECLARATION OF CONSTRUCTION OF WATER POLLUTION CONTROL FACILITIES

Instructions:

A. Upon completion, and before using any project or portions thereof, a professional engineer shall complete and sign this form, declaring that the project was constructed in accordance with the provisions of the construction quality assurance plan and with the plans and specifications and major change orders approved by the department of ecology.

B. If a project is being completed in phased construction, a map must be attached showing that portion of the project to which the declaration applies. A declaration of construction must be submitted for each phase of a project as it is completed. Additional declaration forms are avail-

able upon request from the department of ecology offices listed below.

NAME AND BRIEF DESCRIPTION OF PROJECT: .....
.....
.....
NAME OF OWNER ..... DOE PROJECT NO. .....
ADDRESS ..... DATE PROJECT OR PHASE COMPLETED .....
CITY .....STATE ..... ZIP .....
DOE PLAN AND SPECIFICATION APPROVAL DATE .....

I hereby declare that I am the project engineer of the above identified project and that the project was reviewed and observed by me or my authorized agent in accordance with the provisions of the construction quality assurance plan. I further declare that the project was, to the best of my knowledge and information, constructed and completed in accordance with the plans and specification and major change orders approved by the department of ecology and as shown on the owner's "as-built" plans.

..... SEAL
Signature of Professional Engineer
OF
DATE .....
ENGINEER

Please return completed form to the department of ecology office checked below.

- ❑ SW Regional Office, Department of Ecology, P.O. Box 47600, Olympia, WA 98504-7600
- ❑ Central Regional Office, Department of Ecology, 15 W. Yakima Ave., Suite 200, Yakima, WA 98902-3401
- ❑ NW Regional Office, Department of Ecology, 3190 160th Ave. S.E., Bellevue, WA 98008-5452
- ❑ Eastern Regional Office, Department of Ecology, N. 4601 Monroe, Ste. 100, Spokane, WA 99205-1295
- ❑ Water Quality Program, Department of Ecology, P.O. Box 47600, Olympia, WA 98504-7600

[Statutory Authority: RCW 90.48.110. 00-15-021 (Order 00-09), § 173-240-095, filed 7/11/00, effective 8/11/00. Statutory Authority: Chapters 43.21A and 90.48 RCW. 83-23-063 (Order DE 83-30), § 173-240-095, filed 11/16/83.]

WAC 173-240-100 Requirement for certified operator. Each owner of a domestic wastewater treatment facility is required by chapter 70.95B RCW to have an operator, certified by the state, in responsible charge of the day to day operation of the facility. This requirement does not apply to a septic tank using subsurface disposal. The certification procedures are set forth in chapter 173-230 WAC.

[Statutory Authority: RCW 90.48.110. 00-15-021 (Order 00-09), § 173-240-100, filed 7/11/00, effective 8/11/00. Statutory Authority: Chapters 43.21A and 90.48 RCW. 83-23-063 (Order DE 83-30), § 173-240-100, filed 11/16/83. Statutory Authority: RCW 90.48.110. 79-02-033 (Order DE 78-10), § 173-240-100, filed 1/23/79. Formerly chapter 372-20 WAC.]

WAC 173-240-104 Ownership and operation and maintenance. (1) Except as provided in subsections (2) and (3) of this section, domestic sewage facilities will not be approved unless ownership and responsibility for operation and maintenance is by a public entity. If a waste discharge permit is required it must be issued to the public entity. Nothing in this rule precludes a public entity from contracting operation and maintenance of domestic sewage facilities.

(2) Ownership by nonpublic entities may be approved if the department determines the ownership is in the public interest: Provided, That there is an enforceable contract, approved by the department, between the nonpublic entity and a public entity with an approved sewer general plan that will assure immediate assumption of the system under the following conditions:

(a) Treatment efficiency is unsatisfactory either as a result of plant capacity or physical operation; or

(b) If such an assumption is necessary for the implementation of a general sewer plan.

(3) The following domestic wastewater facilities would not require public entity ownership, operation, and maintenance:

(a) Those facilities existing or approved for construction as of the effective date of this section, until such a time the facility is expanded to accommodate additional development.

(b) Those facilities which serve a single nonresidential, industrial, or commercial establishment. Commercial/industrial complexes serving multiple owners or tenants and multiple residential dwelling facilities such as mobile home parks, apartments, and condominiums are not considered commercial establishments for the purpose of this section.

[Statutory Authority: RCW 90.48.110. 00-15-021 (Order 00-09), § 173-240-104, filed 7/11/00, effective 8/11/00. Statutory Authority: Chapters 43.21A and 90.48 RCW. 83-23-063 (Order DE 83-30), § 173-240-104, filed 11/16/83.]

INDUSTRIAL WASTEWATER FACILITIES

WAC 173-240-110 Submission of plans and reports. (1) Before constructing or modifying industrial wastewater facilities, engineering reports and plans and specifications for the project must be submitted to and approved by the department.

(2) All engineering reports and plans and specifications should be submitted by the owner consistent with a compliance schedule issued by the department or at least thirty days before the time approval is desired. The department will generally review and either approve (or conditionally approve), comment on, or disapprove those plans and reports within the thirty-day period unless circumstances prevent, in which case the owner will be notified and informed of the reason for the delay.

(3) Construction or modification of industrial wastewater facilities shall conform to the following schedule of tasks unless waived in accordance with subsection (5).

(a) Submission and approval of an engineering report;

(b) Submission and approval of plans and specifications;

(c) Submission of an operation and maintenance manual.

(4) Where two or more years has elapsed since approval of the engineering report or plans and specifications, it may

be necessary to update that document to reflect changed water quality conditions, regulatory requirements, or engineering technology.

(5) Upon request by the owner, the department may waive the requirement for a three step submission of documents for industrial facilities. In such a case the department will require instead conceptual plans that also include the appropriate (as determined by the department) information from the engineering report and an operation and maintenance manual.

[Statutory Authority: RCW 90.48.110. 00-15-021 (Order 00-09), § 173-240-110, filed 7/11/00, effective 8/11/00. Statutory Authority: Chapters 43.21A and 90.48 RCW. 83-23-063 (Order DE 83-30), § 173-240-110, filed 11/16/83. Statutory Authority: RCW 90.48.110. 79-02-033 (Order DE 78-10), § 173-240-110, filed 1/23/79. Formerly chapter 372-20 WAC.]

WAC 173-240-120 Review standards. The department will review engineering reports, plans and specifications, and operation and maintenance manuals for industrial wastewater facilities to:

(1) Determine whether the proposed facilities will be designed, constructed, operated and maintained to meet effluent limitations and other requirements of an NPDES or state waste discharge permit, if applicable; and

(2) To meet the policies and requirements of chapters 90.48 and 90.54 RCW pertaining to prevention and control of pollution of waters of the state; and

(3) To determine whether the facility will be designed, constructed, and operated consistent with good engineering practices.

[Statutory Authority: RCW 90.48.110. 00-15-021 (Order 00-09), § 173-240-120, filed 7/11/00, effective 8/11/00. Statutory Authority: Chapters 43.21A and 90.48 RCW. 83-23-063 (Order DE 83-30), § 173-240-120, filed 11/16/83. Statutory Authority: RCW 90.48.110. 79-02-033 (Order DE 78-10), § 173-240-120, filed 1/23/79. Formerly chapter 372-20 WAC.]

WAC 173-240-130 Engineering report. (1) The engineering report for an industrial wastewater facility must be sufficiently complete so that plans and specifications can be developed from it without substantial changes. Two copies of the report must be submitted to the department for approval.

(2) The engineering report shall include the following information together with any other relevant data as requested by the department:

(a) Type of industry or business;

(b) The kind and quantity of finished product;

(c) The quantity and quality of water used by the industry and a description of how it is consumed or disposed of, including:

(i) The quantity and quality of all process wastewater and method of disposal;

(ii) The quantity of domestic wastewater and how it is disposed of;

(iii) The quantity and quality of noncontact cooling water (including air conditioning) and how it is disposed of; and

(iv) The quantity of water consumed or lost to evaporation.

(d) The amount and kind of chemicals used in the treatment process, if any;

(e) The basic design data and sizing calculations of the treatment units;

(f) A discussion of the suitability of the proposed site for the facility;

(g) A description of the treatment process and operation, including a flow diagram;

(h) All necessary maps and layout sketches;

(i) Provisions for bypass, if any;

(j) Physical provision for oil and hazardous material spill control or accidental discharge prevention or both;

(k) Results to be expected from the treatment process including the predicted wastewater characteristics, as shown in the waste discharge permit, where applicable;

(l) A description of the receiving water, location of the point of discharge, applicable water quality standards, and how water quality standards will be met outside of any applicable dilution zone;

(m) Detailed outfall analysis;

(n) The relationship to existing treatment facilities, if any;

(o) Where discharge is to a municipal sewerage system, a discussion of that system's ability to transport and treat the proposed industrial waste discharge without exceeding the municipality's allocated industrial capacity. Also, a discussion on the effects of the proposed industrial discharge on the use or disposal of municipal sludge;

(p) Where discharge is through land application, including seepage lagoons, irrigation, and subsurface disposal, a geohydrologic evaluation of factors such as:

(i) Depth to ground water and ground water movement during different times of the year;

(ii) Water balance analysis of the proposed discharge area;

(iii) Overall effects of the proposed facility upon the ground water in conjunction with any other land application facilities that may be present;

(q) A statement expressing sound engineering justification through the use of pilot plant data, results from other similar installations, or scientific evidence from the literature, or both, that the effluent from the proposed facility will meet applicable permit effluent limitations or pretreatment standards or both;

(r) A discussion of the method of final sludge disposal selected and any alternatives considered with reasons for rejection;

(s) A statement regarding who will own, operate, and maintain the system after construction;

(t) A statement regarding compliance with any state or local water quality management plan or any plan adopted under the Federal Water Pollution Control Act as amended;

(u) Provisions for any committed future plans;

(v) A discussion of the various alternatives evaluated, if any, and reasons they are unacceptable;

(w) A timetable for final design and construction;

(x) A statement regarding compliance with the State Environmental Policy Act (SEPA) and the National Environmental Policy Act (NEPA), if applicable;

(y) Additional items to be included in an engineering report for a solid waste leachate treatment system are:

(i) A vicinity map and also a site map that shows topography, location of utilities, and location of the leachate collection network, treatment systems, and disposal;

(ii) Discussion of the solid waste site, working areas, soil profile, rainfall data, and ground water movement and usage;

(iii) A statement of the capital costs and the annual operation and maintenance costs;

(iv) A description of all sources of water supply within two thousand feet of the proposed disposal site. Particular attention should be given to showing impact on usable or potentially usable aquifers.

[Statutory Authority: RCW 90.48.110. 00-15-021 (Order 00-09), § 173-240-130, filed 7/11/00, effective 8/11/00. Statutory Authority: Chapters 43.21A and 90.48 RCW. 83-23-063 (Order DE 83-30), § 173-240-130, filed 11/16/83. Statutory Authority: RCW 90.48.110. 79-02-033 (Order DE 78-10), § 173-240-130, filed 1/23/79. Formerly chapter 372-20 WAC.]

WAC 173-240-140 Plans and specifications. (1) Upon request of the owner the department may, at its discretion, allow submission of conceptual plans for industrial facilities, as noted in WAC 173-240-110(5). Two copies of the plans and specifications must be submitted to the department for approval before the start of construction.

(2) The plans and specifications shall include the following information together with any other relevant data as requested by the department:

(a) Repeat presentation of the basic engineering design criteria from the engineering report.

(b) If there are any deviations from the concepts of the engineering report, an explanation of the changes that includes as much detail as would have been provided in an engineering report.

(c) The plan and section drawings of major components, such as the treatment units, pump stations, flow measuring devices, sludge handling equipment, and influent and effluent piping. Foundations or soil preparation or both should be shown for major structures.

(d) A general site drawing that shows the location with respect to the entire plant site and a detailed site drawing that shows the component siting.

(e) A schematic drawing that shows flows that include: In plant collection, and wastewater pumping, treatment, and discharge.

(f) A hydraulic profile that shows head under maximum flows. This requirement may be waived where the three step submission of documents has been waived under WAC 173-240-110(5).

(g) Instrumentation, controls, and sampling schematics.

(h) General operating procedures, such as startup, shutdown, spills, etc.

[Statutory Authority: RCW 90.48.110. 00-15-021 (Order 00-09), § 173-240-140, filed 7/11/00, effective 8/11/00. Statutory Authority: Chapters 43.21A and 90.48 RCW. 83-23-063 (Order DE 83-30), § 173-240-140, filed 11/16/83. Statutory Authority: RCW 90.48.110. 79-02-033 (Order DE 78-10), § 173-240-140, filed 1/23/79. Formerly chapter 372-20 WAC.]

WAC 173-240-150 Operation and maintenance manual. (1) A detailed operation and maintenance manual must be prepared for an industrial wastewater facility that includes mechanical components before completing the construction. The manual is to be submitted to the department for review and approval. The purpose of the manual is to present technical guidance and regulatory requirements to the operator to enhance operation under both normal and emergency conditions.

(2) The operation and maintenance manual shall include the following topics:

(a) The names and phone numbers of the responsible individuals.

(b) A description of plant type, flow pattern, operation, and efficiency expected.

(c) The principal design criteria.

(d) A process description of each plant unit, that includes function, relationship to other plant units, and schematic diagrams.

(e) An explanation of the operational objectives for the various wastewater parameters, such as sludge age, settleability, etc.

(f) A discussion of the detailed operation of each unit and a description of various controls, recommended settings, fail-safe features, etc.

(g) A discussion of how the facilities are to be operated during anticipated startups and shutdowns, maintenance procedures, and less than design loading conditions, so as to maintain efficient treatment.

(h) A section on laboratory procedures that includes sampling techniques, monitoring requirements, and sample analysis.

(i) Recordkeeping procedures and sample forms to be used.

(j) A maintenance schedule that incorporates manufacturer's recommendations, preventative maintenance and housekeeping schedules, and special tools and equipment usage.

(k) A section on safety.

(l) A section that contains the spare parts inventory, address of local suppliers, equipment warranties, and appropriate equipment catalogues.

(m) Emergency plans and procedures.

[Statutory Authority: RCW 90.48.110. 00-15-021 (Order 00-09), § 173-240-150, filed 7/11/00, effective 8/11/00. Statutory Authority: Chapters 43.21A and 90.48 RCW. 83-23-063 (Order DE 83-30), § 173-240-150, filed 11/16/83. Statutory Authority: RCW 90.48.110. 79-02-033 (Order DE 78-10), § 173-240-150, filed 1/23/79. Formerly chapter 372-20 WAC.]

DOMESTIC AND INDUSTRIAL WASTEWATER FACILITIES

WAC 173-240-160 Requirement for professional engineer. (1) All required engineering reports, and plans and specifications for the construction or modification of wastewater facilities must be prepared under the supervision of a professional engineer licensed in accordance with chapter 18.43 RCW. All copies of these documents submitted to the department for review shall bear the seal of the professional engineer under whose supervision they have been prepared.

(2) Upon request of the owner, the department may waive the above requirement for construction or modification at industrial wastewater facilities.

[Statutory Authority: RCW 90.48.110. 00-15-021 (Order 00-09), § 173-240-160, filed 7/11/00, effective 8/11/00. Statutory Authority: Chapters 43.21A and 90.48 RCW. 83-23-063 (Order DE 83-30), § 173-240-160, filed

11/16/83. Statutory Authority: RCW 90.48.110. 79-02-033 (Order DE 78-10), § 173-240-160, filed 1/23/79. Formerly chapter 372-20 WAC.]

WAC 173-240-170 Right of inspection. Under RCW 90.48.090, the department or its authorized representative has the right to enter at all reasonable times in or upon any property, public or private, for the purposes of inspection or investigation relating to the pollution or possible pollution of the waters of the state, including the inspection of construction activities related to domestic or industrial wastewater facilities.

[Statutory Authority: RCW 90.48.110. 00-15-021 (Order 00-09), § 173-240-170, filed 7/11/00, effective 8/11/00. Statutory Authority: Chapters 43.21A and 90.48 RCW. 83-23-063 (Order DE 83-30), § 173-240-170, filed 11/16/83. Statutory Authority: RCW 90.48.110. 79-02-033 (Order DE 78-10), § 173-240-170, filed 1/23/79. Formerly chapter 372-20 WAC.]

WAC 173-240-180 Approval of construction changes. All wastewater facilities subject to the provisions of this rule must be constructed in accordance with the plans and specifications approved by the department. Any contemplated changes during construction, which are significant deviations from the approved plans, must first be submitted to the department for approval.

[Statutory Authority: RCW 90.48.110. 00-15-021 (Order 00-09), § 173-240-180, filed 7/11/00, effective 8/11/00. Statutory Authority: Chapters 43.21A and 90.48 RCW. 83-23-063 (Order DE 83-30), § 173-240-180, filed 11/16/83. Statutory Authority: RCW 90.48.110. 79-02-033 (Order DE 78-10), § 173-240-180, filed 1/23/79. Formerly chapter 372-20 WAC.]

Chapter 173-245 WAC

SUBMISSION OF PLANS AND REPORTS FOR CONSTRUCTION AND OPERATION OF COMBINED SEWER OVERFLOW REDUCTION FACILITIES

WAC

173-245-010	Purpose and scope.
173-245-015	General requirements.
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173-245-070	Declaration of construction completion.
173-245-075	Form—Declaration of construction of water pollution control facilities.
173-245-080	Requirement for certified operator.
173-245-084	Ownership and operation and maintenance.
173-245-090	Schedule updates—Monitoring—Reporting.

WAC 173-245-010 Purpose and scope. This chapter establishes a procedure and criteria for implementing RCW 90.48.480, which requires "the greatest reasonable reduction of combined sewer overflows at the earliest possible date." It applies to municipalities whose sewer system includes combined sewer overflow (CSO) sites.

[Statutory Authority: RCW 90.48.110. 00-15-019 (Order 00-07), § 173-245-010, filed 7/11/00, effective 8/11/00. Statutory Authority: RCW 90.48.035. 87-04-020 (Order DE 86-34), § 173-245-010, filed 1/27/87.]

WAC 173-245-015 General requirements. (1) All CSO sites shall achieve and at least maintain the greatest reasonable reduction, and neither cause violations of applicable water quality standards, nor restrictions to the characteristic uses of the receiving water, nor accumulation of deposits which: (a) Exceed sediment criteria or standards; or (b) have an adverse biological effect.

(2) This chapter may not negate specific CSO reduction projects, programs, and schedules that the department and a municipality have agreed upon before this chapter's effective date. However, the provisions of this chapter shall still apply.

[Statutory Authority: RCW 90.48.110. 00-15-019 (Order 00-07), § 173-245-015, filed 7/11/00, effective 8/11/00. Statutory Authority: RCW 90.48.035. 87-04-020 (Order DE 86-34), § 173-245-015, filed 1/27/87.]

WAC 173-245-020 Definitions. As used in this chapter:

(1) "At-site treatment" means treatment and discharge of combined sewage at the CSO site.

(2) "Baseline annual CSO volume and frequency" means the annual CSO volume and frequency that is estimated to occur based upon the existing sewer system and the historical rainfall record.

(3) "Best management practices" means use of those practices which will best reduce the amount of pollution caused by nonpoint sources so that pollutant loadings in combined and storm sewer flows during rainfall events are minimized.

(4) "Combined sewage" means the mixture of sanitary sewage, infiltration, and inflow.

(5) "Combined sewer" means a sewer that has been designed to serve as a sanitary sewer and a storm sewer, and into which inflow is allowed by local ordinance.

(6) "Combined sewer overflow (CSO)" means (a) the event during which excess combined sewage flow caused by inflow is discharged from a combined sewer, rather than conveyed to the sewage treatment plant because the capacity of either the treatment plant or the combined sewer is exceeded.

(7) "CSO reduction plan" means a comprehensive plan for attaining the greatest reasonable reduction of CSOs at the earliest possible date. The requirements for a CSO reduction plan are as further described in this chapter.

(8) "Department" means the department of ecology.

(9) "Disinfection" means the selective destruction of disease-causing and bacterial indicator group organisms.

(10) "Domestic wastewater facilities" means any CSO treatment or control facility included under the definition of domestic wastewater facilities as defined in chapter 173-240 WAC.

(11) "In-line storage" means storage of sewage within the sewer pipes through the use of regulators and gates.

(12) "Infiltration" means the addition of ground water into a sewer through joints, the sewer material, cracks, and other defects.

(13) "Inflow" means the addition of rainfall-caused surface water drainage from roof drains, yard drains, basement drains, street catch basins, etc., into a sewer.

(14) "NPDES" means the National Pollutant Discharge Elimination System.

(15) "Off-line storage" means storage of sewage adjacent to the sewer pipe in a tank or other storage device.

(16) "Primary treatment" means any process that removes at least fifty percent of the total suspended solids from the waste stream, and discharges less than 0.3 ml/l/hr. of settleable solids.

(17) "Sanitary sewer" means a sewer that is designed to convey sanitary sewage and infiltration.

(18) "Sanitary sewage" means the mixture of domestic, commercial, and industrial wastewaters.

(19) "Secondary treatment" means any process that achieves the requirements of 40 CFR Part 133 as supplemented by state rule and guidance.

(20) "Storm sewer" means a sewer that is designed to convey surface water drainage caused by rainfall.

(21) "Storm sewer/sanitary sewer separation" means construction of new storm sewers or new sanitary sewers so that sanitary sewage and surface drainage are conveyed in different sewers.

(22) "The greatest reasonable reduction" means control of each CSO in such a way that an average of one untreated discharge may occur per year.

[Statutory Authority: RCW 90.48.110. 00-15-019 (Order 00-07), § 173-245-020, filed 7/11/00, effective 8/11/00. Statutory Authority: RCW 90.48.035. 87-04-020 (Order DE 86-34), § 173-245-020, filed 1/27/87.]

WAC 173-245-030 Submission of plans. Municipalities shall:

(1) Obtain the approval of the department for CSO reduction plans by January 1, 1988. This deadline may be extended by the department when that authority is granted.

(2) Submit plans to the department at least sixty days before the time approval is desired.

(3) Incorporate CSO reduction plans into their respective general sewer plans and into plans for new or upgraded sewage treatment facilities.

[Statutory Authority: RCW 90.48.110. 00-15-019 (Order 00-07), § 173-245-030, filed 7/11/00, effective 8/11/00. Statutory Authority: RCW 90.48.035. 87-04-020 (Order DE 86-34), § 173-245-030, filed 1/27/87.]

WAC 173-245-040 CSO reduction plan. (1) The CSO reduction plan must be sufficiently complete so that plans and specifications can be developed from it for projects that may proceed into design within two years of plan submittal. Sufficient detail of any remaining projects must be provided so that detailed engineering reports can be prepared in the future.

(2) CSO reduction plans shall include the following information together with any other relevant data as requested by the department.

(a) Documentation of CSO activity. Municipalities shall complete a field assessment and mathematical modeling study to establish each CSO's location, baseline annual frequency, and baseline annual volume; to characterize each discharge; and to estimate historical impact by:

(i) Flow monitoring and sampling CSOs. Monitoring and sampling at one or more CSO sites in a group that are in close proximity to one another is sufficient if the municipality can establish a consistent hydraulic and pollutant correlation between or among the group of CSO sites. Sampling may not be required for CSO sites that serve residential basins; and

(ii) Developing a rainfall/stormwater runoff/CSO model to simulate each CSO site's activity; and

(iii) Verifying the model's accuracy with data collected under (a)(i) of this subsection; and

(iv) In circumstances where an historical impact may be discernible, observing and sampling the receiving water sediments adjacent to each CSO site or group of sites to establish the presence and extent of any bottom deposits; and

(v) If the sewer service area upstream of a CSO site includes sanitary sewer sources other than domestic sewage, samples of the sediment deposits shall receive heavy metal analysis and organic pollutant screening. Pending review of results of these analyses, the department may require additional pollutant analyses. If two or more CSO sites serve the same industrial/commercial sources, sediment sampling adjacent to one representative CSO site may suffice.

(b) To achieve the greatest reasonable reduction at each CSO site, control/treatment alternatives that shall receive consideration include, but are not limited to:

(i) Use of best management practices, sewer use ordinances, pretreatment programs, and sewer maintenance programs to reduce pollutants, reduce infiltration, and delay and reduce inflow; and

(ii) In-line and off-line storage with at least primary treatment and disinfection at the secondary sewage treatment facility that is served by the combined sewer; or

(iii) Increased sewer capacity to the secondary sewage treatment facility that shall provide at least primary treatment and disinfection; or

(iv) At-site treatment equal to at least primary treatment, and adequately offshore submerged discharge. At-site treatment may include a disinfection requirement at CSO sites that are near or impact water supply intakes, potentially harvestable shellfish areas, and primary contact recreation areas; or

(v) Storm sewer/sanitary sewer separation.

(c) Analysis of selected treatment/control projects. Municipalities shall conduct an assessment of the treatment/control project or combination of projects proposed for each CSO site. The assessment shall include:

(i) An estimation of the water quality and sediment impacts of any proposed treated discharge using existing background receiving water quality data, and estimated discharge quality and quantity. The department may require a similar analysis for proposed storm sewer outfalls for basins that drain industrial and/or commercial areas; and

(ii) An estimation of the selected projects' impacts on the quality of effluent from and operation of a municipality's secondary sewage treatment facility. During wet weather flow conditions, a municipality shall maximize the rate and volume of flows transported to its secondary sewage treatment facility for treatment. However, those flows must not cause the treatment facility to exceed the pollutant concentration limits in its NPDES permit; and

(iii) The estimated construction and operation and maintenance costs of the selected projects; and

(iv) The general locations, descriptions, basic design data, sizing calculations, and schematic drawings of the selected projects and descriptions of operation to demonstrate technical feasibility; and

(v) An evaluation of the practicality and benefits of phased implementation; and

(vi) A statement regarding compliance with the State Environmental Policy Act (SEPA).

(d) Priority ranking. Each municipality shall propose a ranking of its selected treatment/control projects. The rankings must be developed considering the following criteria:

(i) Highest priority must be given to reduction of CSOs that discharge near water supply intakes, public primary contact recreation areas, and potentially harvestable shellfish areas;

(ii) A cost-effectiveness analysis of the proposed projects. This can include a determination of the monetary cost per annual mass pollutant reduction, per annual volume reduction, and/or per annual frequency reduction achieved by each project;

(iii) Documented, probable, and potential environmental impacts of the existing CSO discharges.

(e) Municipalities shall propose a schedule for achieving "the greatest reasonable reduction of combined sewer overflows at the earliest possible date." (RCW 90.48.480.) If the agreed upon schedule exceeds five years, municipalities shall propose an initial five-year program of progress towards achieving the greatest reasonable reduction. Factors that municipalities and the department shall use to determine compliance schedules shall include but not be limited to:

(i) Total cost of compliance;

(ii) Economic capability of the municipality;

(iii) Other recent and concurrent expenditures for improving water quality; and

(iv) The severity of existing and potential environmental and beneficial use impacts.

[Statutory Authority: RCW 90.48.110. 00-15-019 (Order 00-07), § 173-245-040, filed 7/11/00, effective 8/11/00. Statutory Authority: RCW 90.48.035. 87-04-020 (Order DE 86-34), § 173-245-040, filed 1/27/87.]

WAC 173-245-050 Plans and specifications. (1) The plans and specifications for a domestic wastewater facility are the detailed construction documents by which the owner or his or her contractor bid and construct the facility. The content and format of the plans and specifications must be as stated in the state of Washington, "Criteria for sewage works design," and shall include a list of the facility design criteria and a plan for interim operation of facilities during construction.

(2) Plans and specifications for sewer line extensions shall include, as a separate report, an analysis of the existing collection and treatment system's ability to transport and treat additional flow and loading.

(3) Two copies of the plans and specifications must be submitted to the department for approval before the start of construction, except as waived under WAC 173-240-030(5). (See also, WAC 173-240-070.)

[Statutory Authority: RCW 90.48.110. 00-15-019 (Order 00-07), § 173-245-050, filed 7/11/00, effective 8/11/00. Statutory Authority: RCW 90.48.035. 87-04-020 (Order DE 86-34), § 173-245-050, filed 1/27/87.]

WAC 173-245-055 Construction quality assurance plan. (1) Before construction, a detailed plan must be submitted to the department showing how adequate and competent construction inspection will be provided.

(2) The construction quality assurance plan shall include:

(a) Construction schedule with a summary of planned construction activities, their sequence, interrelationships, durations, and terminations.

(b) Description of the construction management organization, management procedures, lines of communication, and responsibility.

(c) Description of anticipated quality control testing including type of test, frequency, and who will perform the tests.

(d) Description of the change order process that includes who will initiate change orders, as well as who will review, negotiate, and approve change orders.

(e) Description of the technical records handling methodology that includes where plans and specifications, as-built drawings, field orders, and change orders will be kept.

(f) Description of construction inspection program that includes inspection responsibility, anticipated inspection frequency, deficiency resolution, and inspector qualifications. (See also, WAC 173-240-075.)

[Statutory Authority: RCW 90.48.110. 00-15-019 (Order 00-07), § 173-245-055, filed 7/11/00, effective 8/11/00. Statutory Authority: RCW 90.48.035. 87-04-020 (Order DE 86-34), § 173-245-055, filed 1/27/87.]

WAC 173-245-060 Operation and maintenance manual. (1) The proposed method of operation and maintenance of the domestic wastewater facility must be stated in the engineering report or plans and specifications and must be approved by the department. The statement must be a discussion of who will own, operate, and maintain the facility and what the staffing and testing requirements are. The owner shall follow the approved method of operation after the facility is constructed, unless changes have been approved by the department.

(2) In those cases where the facility includes mechanical components, a detailed operation and maintenance manual must be prepared before completing the construction. The purpose of the manual is to present technical guidance and regulatory requirements to the operator to enhance operation under both normal and emergency conditions. Two copies of the manual must be submitted to the department for approval before completing the construction.

(3) In order to assure proper operation during construction and timely review and approval of the final operation and maintenance manual, a draft manual must be submitted in the early stages of the construction of a facility. In addition, manufacturer's information on equipment must be available to the plant operator before unit start-up.

(4) The operation and maintenance manual shall include the following list of topics. For those projects funded by the environmental protection agency the manual shall also follow the requirements of the EPA publication, *Considerations for Preparation of Operation and Maintenance Manuals.*

(a) The assignment of managerial and operational responsibilities, including plant classification and classification of required operators.

(b) A description of plant type, flow pattern, operation, and efficiency expected.

(c) The principal design criteria.

(d) A process description of each plant unit, which includes function, relationship to other plant units, and schematic diagrams.

(e) A discussion of the detailed operation of each unit and description of various controls, recommended settings, fail-safe features, etc.

(f) A discussion of how the treatment facilities are to be operated during anticipated maintenance procedures, and under less than design loading conditions, if applicable, such as initial loading on a system designed for substantial growth.

(g) A section on laboratory procedures that includes sampling techniques, monitoring requirements, and sample analysis.

(h) Recordkeeping procedures and sample forms to be used.

(i) A maintenance schedule incorporating manufacturer's recommendations, preventative maintenance and housekeeping schedules, and special tools and equipment usage.

(j) A section on safety.

(k) A section stating the spare parts inventory, address of local suppliers, equipment warranties, and appropriate equipment catalogues.

(l) Emergency plans and procedures.

(5) In those cases where the facility does not include mechanical components, an operation and maintenance manual, which may be less detailed than that described in subsection (4) of this section, must be submitted to the department for approval before completing the construction. The manual shall fully describe the treatment and disposal system and outline routine maintenance procedures needed for proper operation of the system. (See also, WAC 173-240-080.)

[Statutory Authority: RCW 90.48.110. 00-15-019 (Order 00-07), § 173-245-060, filed 7/11/00, effective 8/11/00. Statutory Authority: RCW 90.48.035. 87-04-020 (Order DE 86-34), § 173-245-060, filed 1/27/87.]

WAC 173-245-070 Declaration of construction completion. (1) Within thirty days after the owner accepts the construction or modification of a domestic wastewater facility, the professional engineer in responsible charge of inspection of the project shall submit to the department (a) one complete set of record drawings or as-built drawings (b) a declaration stating the facilities were constructed in accordance with the provisions of the construction quality assurance plan and without significant change from the department approved plans and specifications.

(2) The declaration will be furnished by the department and will be the same form as WAC 173-245-075, declaration of construction of water pollution control facilities. The submission of the declaration is not necessary for sewer line extensions where the local government entity has received approval of a general sewer plan and standard design criteria. (See also, WAC 173-240-090.)

[Statutory Authority: RCW 90.48.110. 00-15-019 (Order 00-07), § 173-245-070, filed 7/11/00, effective 8/11/00. Statutory Authority: RCW 90.48.035. 87-04-020 (Order DE 86-34), § 173-245-070, filed 1/27/87.]

WAC 173-245-075 Form—Declaration of construction of water pollution control facilities.

DECLARATION OF CONSTRUCTION OF WATER POLLUTION CONTROL FACILITIES

Instructions:

A. Upon completion, and before using any project or portions thereof, a professional engineer shall complete and sign this form, declaring that the project was constructed in accordance with the provisions of the construction quality assurance plan and with the plans and specifications and major change orders approved by the department of ecology.

B. If a project is being completed in phased construction, a map must be attached showing that portion of the project to which the declaration applies. A declaration of construction must be submitted for each phase of a project as it is completed. Additional declaration forms are available upon request from the department of ecology offices listed below.

NAME AND BRIEF DESCRIPTION OF PROJECT: .....
.....
.....

NAME OF OWNER ..... DOE PROJECT NO. .....
ADDRESS ..... DATE PROJECT OR PHASE COMPLETED .....
CITY .....STATE ..... ZIP .....
DOE PLAN AND SPECIFICATION APPROVAL DATE .....

I hereby declare that I am the project engineer of the above identified project and that this project was reviewed and observed by me or my authorized agent in accordance with the provisions of the construction quality assurance plan. I further declare that this project was, to the best of my knowledge and information, constructed and completed in accordance with the plans and specification and major change orders approved by the department of ecology and as shown on the owner's "as-built" plans.

..... SEAL
Signature of Professional Engineer
OF
DATE .....
ENGINEER

Please return completed form to the department of ecology office checked below.

- ❑ SW Regional Office
  Department of Ecology
  P.O. Box 47600
  Olympia, WA 98504-7600
- ❑ NW Regional Office
  Department of Ecology
  3190 160th Ave. SE
  Bellevue, WA 98008-5452
- ❑ Central Regional Office
  Department of Ecology
  15 W. Yakima Ave.
  Ste. 200
  Yakima, WA 98902-3401
- ❑ Eastern Regional Office
  Department of Ecology
  N. 4601 Monroe St.,
  Ste. 100
  Spokane, WA 99205-1295

❑ Water Quality Program
Department of Ecology
P.O. Box 47600
Olympia, WA
98504-7611

(See also, WAC 173-240-095.)

[Statutory Authority: RCW 90.48.110. 00-15-019 (Order 00-07), § 173-245-075, filed 7/11/00, effective 8/11/00. Statutory Authority: RCW 90.48.035. 87-04-020 (Order DE 86-34), § 173-245-075, filed 1/27/87.]

WAC 173-245-080 Requirement for certified operator. Each owner of a domestic wastewater treatment facility is required by chapter 70.95B RCW to have an operator, certified by the state, in responsible charge of the day to day operation of the facility. This requirement does not apply to a septic tank using subsurface disposal. The certification procedures are set forth in chapter 173-230 WAC. (See also, WAC 173-240-100.)

[Statutory Authority: RCW 90.48.110. 00-15-019 (Order 00-07), § 173-245-080, filed 7/11/00, effective 8/11/00. Statutory Authority: RCW 90.48.035. 87-04-020 (Order DE 86-34), § 173-245-080, filed 1/27/87.]

WAC 173-245-084 Ownership and operation and maintenance. (1) Except as provided in subsections (2) and (3) of this section, domestic sewage facilities will not be approved unless ownership and responsibility for operation and maintenance is by a public entity. If a waste discharge permit is required it must be issued to the public entity. Nothing herein precludes a public entity from contracting operation and maintenance of domestic sewage facilities.

(2) Ownership by nonpublic entities may be approved if the department determines the ownership is in the public interest: Provided, That there is an enforceable contract, approved by the department, between the nonpublic entity and a public entity with an approved sewer general plan that will assure immediate assumption of the system under the following conditions:

(a) Treatment efficiency is unsatisfactory either as a result of plant capacity or physical operation; or

(b) If such an assumption is necessary for the implementation of a general sewer plan.

(3) The following domestic wastewater facilities would not require public entity ownership, operation, and maintenance:

(a) Those facilities existing or approved for construction as of the effective date of this section, until such a time as the facility is expanded to accommodate additional development.

(b) Those facilities which serve a single nonresidential, industrial, or commercial establishment. Commercial/industrial complexes serving multiple owners or tenants and multiple residential dwelling facilities such as mobile home parks, apartments, and condominiums are not considered commercial establishments for the purpose of this section. (See also, WAC 173-240-104.)

[Statutory Authority: RCW 90.48.110. 00-15-019 (Order 00-07), § 173-245-084, filed 7/11/00, effective 8/11/00. Statutory Authority: RCW 90.48.035. 87-04-020 (Order DE 86-34), § 173-245-084, filed 1/27/87.]

WAC 173-245-090 Schedule updates—Monitoring—Reporting. (1) By the anniversary date of its sewage treatment plant NPDES permit, in conjunction with its annual assessment for prevention of facilities overloading where applicable, a municipality shall submit an annual CSO report to the department for review and approval that:

(a) Details the past year's frequency and volume of combined sewage discharged from each CSO site, or group of CSO sites in close proximity. Field monitoring is necessary to estimate these parameters. The report shall indicate whether a CSO site or group of sites has increased over the baseline annual condition. If any increase has occurred, the municipality shall propose a project and schedule to reduce that CSO site or group of sites to or below its baseline condition;

(i) When a CSO site has been reduced to an average of one overflow per year through use of storage or separation, the department may consider reducing the monitoring requirement to frequency verification;

(ii) If the selected CSO control project is at-site treatment and discharge, the department may issue a modification to the applicable sewage treatment plant permit or issue a separate NPDES permit for that discharge. The permit or permit modification must include effluent limits, flow capacity limits, and reporting requirements. The total treated and untreated annual discharge from an at-site treatment plant may not increase above the baseline annual;

(b) Explains the previous year's CSO reduction accomplishments; and

(c) Lists the projects planned for the next year.

(2) In conjunction with its application for renewal of its applicable NPDES permit, the municipality shall submit an amendment to its CSO reduction plan. The amendment shall include:

(a) An assessment of the effectiveness of the CSO reduction plan to date; and

(b) A reevaluation of the CSO sites' project priority ranking; and

(c) A list of projects to be accomplished in the next five years, based upon priorities and estimated revenues. The department of ecology may incorporate such a schedule into an administrative order or the applicable NPDES permit.

[Statutory Authority: RCW 90.48.110. 00-15-019 (Order 00-07), § 173-245-090, filed 7/11/00, effective 8/11/00. Statutory Authority: RCW 90.48.035. 87-04-020 (Order DE 86-34), § 173-245-090, filed 1/27/87.]

Chapter 173-255 WAC

LIMITATIONS ON USE OF REFERENDUM 26 GRANT FUNDS FOR WATER POLLUTION ABATEMENT

WAC

173-255-010	Purpose and scope.
173-255-020	Effective date.
173-255-030	Definitions.
173-255-040	Limitation of programs eligible for funding under Referendum Bill No. 26.
173-255-050	Limitation on grant awards within the municipal grants program.
173-255-060	Provision of guidelines.

WAC 173-255-010 Purpose and scope. The purpose of this chapter is to set forth the limitations on uses of moneys administered by the department of ecology pursuant to chap-

ter 43.83A RCW (Referendum Bill No. 26). The limitations are necessary to insure that these funds will be used to their optimum extent to protect the resources and environment of the state of Washington and the health and safety of its people by providing adequate publicly owned facilities and systems for the collection, treatment and disposal of solid and liquid waste materials.

[Statutory Authority: RCW 43.21A.080. 78-09-066 (Order DE 78-12), § 173-255-010, filed 8/24/78.]

WAC 173-255-020 Effective date. All projects, or phases of projects, which have not received a federal or state grant award for design, before the effective date of this chapter will be subject to provisions contained herein.

[Statutory Authority: RCW 43.21A.080. 78-09-066 (Order DE 78-12), § 173-255-020, filed 8/24/78.]

WAC 173-255-030 Definitions. For the purpose of this chapter:

(1) "Department" means the Washington state department of ecology.

(2) "Agricultural pollution grants program" means the program of grants administered by the department for the planning, design and construction of publicly owned or operated agricultural pollution abatement facilities.

(3) "Lake restoration grants program" means the program of state grants administered by the department for the planning, design and implementation of lake restoration projects.

(4) "Marina pumpout grants program" means the program of state grants administered by the department for the design and construction of sewage pumpout facilities and dump stations at publicly owned or operated marinas.

(5) "Municipal wastewater treatment works construction grants program" (hereinafter referred to as the construction grants program) means the federal/state matching program of grants under Title II of Public Law 95-217 to municipal entities for the purpose of upgrading their treatment works to meet the effluent requirements of state and federal law.

(6) "Water supply residual waste treatment works grants program" means the program of state grants administered by the department for the design and construction of pollution abatement facilities for publicly owned or operated water supply plants in existence on February 3, 1976, that discharge residual wastes to the waters of the state.

(7) "Individual systems" means privately owned treatment works serving one or more principal residences or small commercial establishments constructed prior to and inhabited on or before December 27, 1977, to abate an existing water pollution or public health problem.

(8) "Industrial cost recovery program" means the program established under Title II section 204(b) of the Federal Water Pollution Control Act Amendments (Public Law 92-217) to recover the cost of municipal treatment systems attributed to industrial users, when a municipal treatment system has been funded with federal funds under Title II.

(9) Industrial user:

(a) Any nongovernmental user of publicly owned treatment works which discharges more than twenty-five thousand gallons per day of sanitary waste, or a volume of process waste or combined process and sanitary waste, equivalent to twenty-five thousand gallons per day of sanitary waste.

(b) Any nongovernmental user of a publicly owned treatment works which discharges wastewater to the treatment works which contains toxic pollutants or poisonous solids, liquids, or gases in sufficient quantity either singly or by interaction with other wastes, to injure or interfere with any sewage treatment process, constitute a hazard to humans or animals, create a public nuisance, or create any hazard in or have an adverse effect on the waters receiving any discharge from the treatment works.

(c) All commercial users of an individual system constructed with grant assistance under section 201(h) of the Clean Water Act of 1977 (P.L. 95-217).

(10) "Innovative and alternative technology projects" means those projects employing innovative and alternative wastewater treatment processes and techniques as defined by EPA guidelines in 40 CFR 35, Appendix E, and which are eligible for federal grants under 40 CFR 35.908 promulgated on April 25, 1978, or hereafter modified.

[Statutory Authority: RCW 43.21A.080. 78-09-066 (Order DE 78-12), § 173-255-030, filed 8/24/78.]

WAC 173-255-040 Limitation of programs eligible for funding under Referendum Bill No. 26. (1) The following programs shall be eligible for state matching grants in an amount not to exceed fifty percent of the total eligible cost of a project as determined by the department: The marina pumpout grants program, the water supply plant residual waste treatment works grants program, the lake restoration grants program, the state construction grants program and the agricultural pollution grants program. The department may authorize a matching grant less than fifty percent of the total eligible cost of a project in those cases where it would be in the public interest, or where federal matching funds are available and it would be in the public interest to secure a local matching portion.

(2) The federal construction grants program may be eligible for state matching grants in an amount not to exceed fifteen percent of the total eligible cost of a project as determined by the department except as provided in WAC 173-255-050(1).

[Statutory Authority: RCW 43.21A.080. 80-08-050 (Order DE 80-24), § 173-255-040, filed 6/30/80; 78-09-066 (Order DE 78-12), § 173-255-040, filed 8/24/78.]

WAC 173-255-050 Limitation on grant awards within the municipal grants program. (1) The state matching grants for innovative and alternative technology projects shall be limited to nine percent which is the same portion of the nonfederal share as other types of projects funded under the construction grants program.

(2) Expenditure of funds under the provisions of chapter 43.83A RCW is limited to public bodies which are defined in the statute to mean any agency, political subdivision, taxing district, or municipal corporation thereof, and those Indian tribes now or hereafter recognized as such by the federal government for participation in the federal land and water conservation program and which may constitutionally receive grants or loans from the state of Washington. This provision

and definition prohibits the expenditure of state funds for matching grants for, among others:

(a) Individual systems; and

(b) That portion of the construction of a municipal treatment works attributable to industrial users. Such portion is to be determined through the environmental protection agency's industrial cost recovery program.

[Statutory Authority: RCW 43.21A.080. 78-09-066 (Order DE 78-12), § 173-255-050, filed 8/24/78.]

WAC 173-255-060 Provision of guidelines. The department will publish guidelines which establish procedures, under each of the Referendum 26 grant programs, for the grant application and award process.

[Statutory Authority: RCW 43.21A.080. 78-09-066 (Order DE 78-12), § 173-255-060, filed 8/24/78.]

Chapter 173-270 WAC
PUGET SOUND HIGHWAY RUNOFF PROGRAM

WAC

173-270-010	Purpose, authority, and applicability.
173-270-020	Definitions.
173-270-030	Best management practices.
173-270-040	Vegetation management program.
173-270-050	New construction.
173-270-060	Existing facilities.
173-270-070	Monitoring.
173-270-080	Reporting.
173-270-090	Enforcement.
173-270-100	Severability.

WAC 173-270-010 Purpose, authority, and applicability. (1) Purpose. The purpose of this chapter is to:

(a) Control highway runoff into waters of the state to the maximum extent possible under state law;

(b) Establish procedures and criteria for WSDOT's highway runoff program mandated by the Puget Sound water quality management plan pursuant to chapter 90.70 RCW; and

(c) Provide for appropriate consultation and coordination with tribes, local governments, and other interested and affected parties.

(2) Authority. The authority for this chapter is provided by chapters 90.48 and 90.70 RCW.

(3) Applicability. This chapter applies to all state highway rights of way in the Puget Sound basin which WSDOT owns or controls by long-term lease or easement, or for which WSDOT has maintenance responsibility. This chapter is applicable subject to the availability of appropriated funds or other funding sources.

Note: Copies of statutes and administrative rules incorporated by reference as a part of this chapter are available at ecology offices in Lacey, Washington during regular business hours.

[Statutory Authority: Chapters 90.48 and 90.70 RCW. 91-11-091 (Order 91-06), § 173-270-010, filed 5/21/91, effective 6/21/91.]

WAC 173-270-020 Definitions. The definitions in this section apply to this chapter unless the context requires otherwise.

(1) "Average daily traffic" or "ADT" means the total traffic volume during a given time period (in whole days) greater than one day and less than one year divided by the number of days in that time period. ADT is determined by WSDOT.

(2) "Best management practices" or "BMPs" means physical, structural, and/or managerial practices that when used singly or in combination prevent or reduce pollution of water and have been approved by ecology. BMPs are listed and described in the manual defined in subsection (9) of this section.

(3) "Broadcast application" means a uniform application of pesticides to an entire area.

(4) "Buffer zone" means the minimum distance that a pesticide is permitted to be applied from a physical feature or sensitive area.

(5) "Capital improvement program plan" means a schedule of permanent physical structural improvements budgeted to fit financial resources.

(6) "Ecology" means the Washington state department of ecology.

(7) "EPA" means the U.S. Environmental Protection Agency.

(8) "Experimental BMP" means any treatment or methodology proposed for treatment of highway runoff that is not in the highway runoff manual, defined in subsection (9) of this section, and is being studied by WSDOT and/or ecology for adoption as a BMP.

(9) "Highway runoff manual" means the manual adopted by WSDOT and approved by ecology that contains BMPs to prevent or reduce pollution, and described in WAC 173-270-030.

(10) "Integrated pest management" or "IPM" means the selection, integration, and implementation of pest control that consists of: Prevention of pest problems; monitoring and evaluation of pests, damage and results of treatment; acknowledgment of population levels of pests that can be tolerated based on legal, economic, health, or aesthetic thresholds; use of natural control agents in an ecosystem; reliance to the maximum extent possible on nonhazardous biological, mechanical, and cultural treatment of pests; application of pesticides in a manner that minimizes damage to the ecosystem's natural controls and integrity; and use of pesticides only after all other methods have been evaluated.

(11) "Local government" means a county, city, town, or special purpose district that has authority to manage stormwater.

(12) "New construction" means the addition of one or more lanes, ramps, bridges, or other major structures to an existing state highway or the construction of a new state highway.

(13) "Pest" means any form of plant or animal life or virus (except virus on or in living man or other animal) which is normally considered to be a pest or which the director of the WSDA may declare by regulation to be a pest, including but not limited to, any insect, other arthropod, fungus, rodent, nematode, mollusk, or weed.

(14) "Pest treatment" means mechanical, biological, cultural, or chemical procedures or methods to manage, control, or reduce the influence of a pest.

(15) "Pesticide" means as defined by chapter 17.21 RCW, the Washington Pesticide Act, and regulated by the United States Environmental Protection Agency and WSDA.

(16) "Pollution" means such contamination or other alteration of the physical, chemical, or biological properties of any waters of the state, including change in temperature, taste, color, turbidity, or odor of the waters, or such discharge of any liquid, gaseous, solid, radioactive, or other substance into any waters of the state as will or is likely to create a nuisance or render such waters harmful, detrimental, or injurious to the public health, safety or welfare, or to domestic, commercial, industrial, agricultural, recreational, or other legitimate beneficial use, or to livestock, wild animals, birds, fish, or other aquatic life.

(17) "Puget Sound basin" means the waters of Puget Sound south of Admiralty Inlet including Hood Canal and Saratoga Passage; the waters north to the Canadian border, including portions of the Strait of Georgia; the Strait of Juan de Fuca south of the Canadian border; and all land draining into these waters as mapped in WAC 173-500-040 Water resource inventory areas numbers 1 through 19.

(18) "Quality assurance and control plan" means a collection of policies, objectives, principles, and procedures for attaining data of known and accepted quality and establishes standards of performance for sampling, monitoring, and measurement.

(19) "Sensitive area" means an area or that due to its ground or surface water characteristics may be adversely affected or altered directly or indirectly by pollution and requires special vegetation management, stormwater management, or other practices.

(20) "Spot treatment" means the application of pesticides to a selected individual area or species.

(21) "Stormwater management manual" means the technical manual prepared by ecology for use by local governments and WSDOT that contains BMPs to prevent or reduce pollution in stormwater.

(22) "Stormwater treatment" means chemical, biological, or mechanical procedures or structural methods to remove, reduce, or neutralize pollution.

(23) "Waters of the state" means lakes, rivers, ponds streams, inland waters, underground waters, salt waters, and all other surface waters and water courses within the jurisdiction of the state of Washington.

(24) "Wetlands" means 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. Wetlands generally include swamps, marshes, bogs, and similar areas. Wetlands are identified and delineated by the *"Federal Manual for Identifying Jurisdictional Wetlands"* dated January 19, 1989.

(25) "WSDA" means the Washington state department of agriculture.

(26) "WSDOT" means the Washington state department of transportation.

[Statutory Authority: Chapters 90.48 and 90.70 RCW. 91-11-091 (Order 91-06), § 173-270-020, filed 5/21/91, effective 6/21/91.]

WAC 173-270-030 Best management practices. (1) Approved manual required. Six months after the effective date of ecology's stormwater management manual or six months after the effective date of this chapter, whichever is later, WSDOT shall submit to ecology a highway runoff manual. If WSDOT proposes to adopt a manual other than ecology's stormwater management manual as its highway runoff manual, WSDOT shall formally consult with the tribes and local governments about the contents of the highway runoff manual. The highway runoff manual shall be consistent with ecology's stormwater management manual and shall be adopted by WSDOT only after obtaining ecology's approval. After obtaining ecology's approval, WSDOT shall use the highway runoff manual to direct stormwater management for its existing and new facilities and rights of way in the Puget Sound basin.

(2) Amendments to manual.

(a) Ecology initiates amendments. If ecology amends its stormwater management manual to change or add a BMP or other technical requirement that applies to highways, ecology shall notify WSDOT in writing and send WSDOT a copy of the amendment. This notification shall include ecology's determination as to whether the highway runoff manual complies with the amendment. If the highway runoff manual does not comply with the amendment, WSDOT shall submit proposed amendments within sixty days unless ecology agrees to a time extension. Such proposed amendment shall be subject to ecology's review and approval.

(b) WSDOT initiates amendments. Amendments proposed by WSDOT to the approved highway runoff manual shall be submitted to ecology for review and approval. WSDOT shall formally consult with affected tribes and local governments during the development of proposed amendments. Ecology shall review and approve, conditionally approve or deny the proposed amendments within sixty days from the submittal date.

(3) More stringent standards.

(a) WSDOT shall use the minimum standards established in the highway runoff manual but may use more stringent standards.

(b) When a state highway is located in the jurisdiction of a local government that is required by ecology to utilize more stringent standards to protect the quality of receiving waters, WSDOT shall comply with the same standards to promote uniform stormwater treatment.

(c) WSDOT shall comply with standards identified in watershed action plans for WSDOT rights of ways as required by WAC 400-12-570.

(4) Project coordination. WSDOT shall consult with appropriate tribes and local governments and evaluate local conditions for design, construction, and maintenance of stormwater facilities as indicated in WSDOT's utilities manual. Other agencies and organizations that have an interest or expertise in stormwater may also be consulted. WSDOT, tribes, and local governments are encouraged to jointly develop and maintain stormwater facilities.

(5) Contents of manual. The highway runoff manual shall include, but not be limited to, the following:

(a) BMPs for the control of erosion and sedimentation from construction sites, including standards for operation and maintenance;

(b) Hydrologic analysis procedures, including selection of design storms and estimation of runoff;

(c) Design, operation, and maintenance standards for retention and/or detention facilities and conveyance systems that shall emphasize systems which maximize water quality benefits as well as water quantity control, such as inclusion of biofiltration techniques where practicable;

(d) BMPs for the control of pests, excluding weed control which shall be addressed in the vegetation management program described in WAC 173-270-040;

(e) BMPs for the selection and use of deicing chemicals and traction grit which, as a minimum, shall consist of the following: (i) Traction grit particles should be as large as suitable for application on highways for traction purposes because large particles are less readily transported into waters of the state; (ii) selection and use of deicing chemicals shall include consideration of potential effects on water quality and the beneficial uses of potentially affected waters; (iii) stockpiles containing deicing chemicals shall be investigated for existing and potential water quality problems; and (iv) stockpiles that have an identified problem shall be covered, curbed, diked, placed on an impervious surface, and/or located so runoff can not carry dissolved chemicals into waters of the state; and

(f) BMPs for waste disposal from highway runoff system maintenance.

(6) Experimental BMPs.

(a) WSDOT request. WSDOT may request in writing that ecology approve the use of an experimental BMP for one or several sites. The request shall include, but need not be limited to, a description of: (i) The experimental BMP; (ii) why the experimental BMP is being requested; (iii) why the BMPs in the highway runoff manual are not appropriate; (iv) applicable construction techniques; (v) the site or sites at which use of the experimental BMP is proposed; (vi) the characteristics of the site or sites; (vii) design criteria for the experimental BMP; (viii) maintenance procedures; (ix) cost estimates; (x) monitoring procedures; (xi) the time needed for monitoring; (xii) the anticipated results; (xiii) if appropriate, an approved BMP that could be used if the experimental BMP fails; and (xiv) consultation with interested and affected parties including tribes, local governments, and contiguous property owners.

(b) Ecology review and approval. After reviewing WSDOT's request, ecology may approve, conditionally approve, or deny the use of the experimental BMP for specific sites. Any approval shall be for a period of time not to exceed four years unless ecology determines, upon request and justification by WSDOT, that unusual circumstances justify a longer time period.

(c) Evaluation criteria. In evaluating an experimental BMP, ecology shall consider factors it deems appropriate, including, but not limited to: The experimental BMP's effectiveness in protecting water quality and beneficial uses; its reliability, cost, ease of construction; and maintenance requirements.

(d) BMP status. Before ecology's authorization for WSDOT's use of the experimental BMP expires, WSDOT shall consult with affected tribes, local governments, or property owners. WSDOT shall document the results of the experimental BMP and shall determine whether to request amendment of the highway runoff manual to include the experimental BMP as an approved BMP. Before ecology's authorization expires, WSDOT shall either request an amendment to the highway runoff manual under subsection (2)(b) of this section or inform ecology in writing that it is not proposing to amend the highway runoff manual to include the BMP. Based upon the predicted results in the original request, monitoring data and other information relevant to WSDOT's request, ecology shall determine whether an experimental BMP that is not proposed to be included in the highway runoff manual shall be replaced with an approved BMP.

[Statutory Authority: Chapters 90.48 and 90.70 RCW. 91-11-091 (Order 91-06), § 173-270-030, filed 5/21/91, effective 6/21/91.]

WAC 173-270-040 Vegetation management program. (1) General. The purposes of vegetation management in highway rights of way are to establish and maintain stable plant communities that resist encroachment by undesirable plants, noxious weeds, and other pests; meet WSDOT operational, health, natural resources, and environmental standards; be cost effective; and protect the public investment with minimal negative impacts on the environment.

(2) Program required. WSDOT shall prepare and implement a vegetation management program for all state highways within the Puget Sound basin. WSDOT shall obtain ecology's preliminary approval of the program before WSDOT conducts a public hearing. WSDOT shall formally consult with the tribes and local governments during preparation of the proposed program. After the public hearing, WSDOT shall obtain ecology's approval before WSDOT adopts the program. The program shall be adopted by September 30, 1991. WSDOT and ecology shall review the program at least every two years beginning September 30, 1993. Either ecology or WSDOT may initiate amendment of the program. Amendments shall be prepared, approved, and adopted in accordance with the procedures of this subsection for the initial development of the vegetation management program.

(3) Contents of program.

(a) The vegetation management program shall include, but need not be limited to vegetation management policies; technical guidelines; procedures to implement policies and guidelines; and roadside management plan procedures and standards.

(b) Vegetation management policies. These policies, at a minimum, shall address:

(i) Operational, aesthetic, and environmental standards;

(ii) Integrated pest management;

(iii) Coordination between WSDOT and local governments, abutting property owners, and tribes, including public notification, option to maintain by contiguous property owner and the option to maintain by a preferred management technique of the contiguous property owner;

(iv) Recordkeeping;

(v) Training and education for vegetation management employees; and

(vi) Testing for pesticides at storage, loading, and mixing areas and, if necessary, in ground water and nearby surface water that may be contaminated by or affected by pesticides.

(c) Technical guidelines. These guidelines, at a minimum, shall address:

(i) Integrated pest management which shall address monitoring, establishing injury levels, setting action levels, selecting treatment, and evaluating treatment.

(A) Monitoring. Monitoring guidelines shall provide for: Identification of the potential pest and/or problem and sensitive areas; and observation of the vegetation on the site, or the site itself for potential pest problems at regular intervals. The schedule and methods of monitoring shall be appropriate to minimize the severity of damage caused by the pest.

(B) Establishing injury levels. Guidelines for establishing injury levels shall provide for determination of when a pest is likely to cause significant damage and require action to prevent unacceptable damage or public safety problems. Accurate records shall be kept so adequate data is available to make decisions. A problem shall be noted before any action is taken.

(C) Setting action levels. Guidelines for setting action levels shall provide for prioritization of target species and determination of when to initiate action so that unacceptable injury levels are not reached.

(D) Selecting treatment. Selection of pest treatment strategies and tactics shall provide for safety of highway users; protect the environment and human health; and provide for the stewardship of the public investment. This shall include an effort to minimize the use of chemical controls.

(E) Evaluating treatment. After pest treatment, the site shall be inspected to determine whether the pest treatment had the desired results. Adequate time shall be provided for the pest treatment to function before it is evaluated. If the pest treatment did not have the desired results, the treatment may be modified. Desired results may be examined to determine if they were realistic and/or appropriate;

(ii) Measures to reduce the amount of pesticides used to the least possible including measures to reduce the use of any state restricted use pesticides on WSDA's list for the protection of ground water found in WAC 16-228-164;

(iii) Criteria for the selection of pesticides that shall include, but not be limited to, target specificity, toxicity, persistence, migration characteristics, time of application and site conditions of treatment area, including slope and permeability;

(iv) Procedures for sampling and analysis for pesticide contamination in storage, loading, and mixing areas and, if appropriate, ground water and surface water with the use of Puget Sound protocols for sediment sampling of marine sediment for EPA priority pollutants is recommended where appropriate;

(v) A spill cleanup plan;

(vi) Methods for safe transportation of pesticides;

(vii) A recordkeeping system on pesticide use, including format;

(viii) Criteria for the identification of sensitive areas;

(ix) Buffer zones to protect waters of the state, public and private supply wells and watersheds, irrigation ditches, ecology regulated areas, and sensitive areas;

(x) Pesticide storage including a requirement that pesticides shall be stored in a secure building with an impermeable floor and controlled drains;

(xi) Vegetation selection in accordance with WSDOT's design manual with emphasis given to reduced maintenance; and

(xii) Vegetation management personnel training and education.

(d) Procedures for the implementation of the policies and guidelines.

(e) Procedures and standards for the preparation and implementation of roadside management plans for specific segments of state highway to assist WSDOT field crews manage state highway rights of way according to the approved vegetation management policies and technical guidelines. WSDOT shall consult with affected tribes, local governments, and other interested parties during preparation of these procedures and standards. WSDOT shall consult with affected tribes, local governments, and other interested parties during preparation of roadside management plans. These plans, at a minimum, shall address:

(i) Goals and objectives;

(ii) Identification of sensitive areas and minimum buffer zones;

(iii) Maintenance activities;

(iv) Budget estimates; and

(v) Evaluation methods and standards.

[Statutory Authority: Chapters 90.48 and 90.70 RCW. 91-11-091 (Order 91-06), § 173-270-040, filed 5/21/91, effective 6/21/91.]

WAC 173-270-050 New construction. WSDOT shall incorporate BMPs in all new construction projects for which design is started after the effective date of this chapter. For projects that are being designed or constructed when this chapter becomes effective, WSDOT shall implement BMPs to the maximum extent practicable to protect water quality. If the cost of constructing water quality BMPs makes a project that is being designed when this chapter becomes effective impracticable, then such BMPs shall be retrofitted at a later date. WSDOT shall submit water pollution control plans to ecology for review and approval for new construction and shall obtain other appropriate authorizations prior to construction.

[Statutory Authority: Chapters 90.48 and 90.70 RCW. 91-11-091 (Order 91-06), § 173-270-050, filed 5/21/91, effective 6/21/91.]

WAC 173-270-060 Existing facilities. (1) Inventory required. WSDOT shall prepare and maintain an inventory of all state highways in the Puget Sound basin. The purpose of the inventory is to determine where water quality BMPs need to be installed, to assist identification of priority projects, and to provide a basis for the evaluation of the program. WSDOT shall begin its inventory on highways with an ADT of fifty thousand or greater. The inventory and rating of highways with an ADT of less than fifty thousand shall be sufficient to provide projects for the six-year capital improvement program plan.

(2) Contents of inventory. The inventory shall be developed for homogeneous highway segments and shall include, but not be limited to:

(a) Highway segment identification including name, location, type, traffic volume classification, local government(s) with jurisdiction, interested tribes, and WSDOT district;

(b) Status of stormwater management as follows: (i) BMPs are present and/or a local government is receiving and/or treating the highway runoff; (ii) BMPs are feasible or the local government will receive and/or treat highway runoff; or (iii) BMPs are not practicable; and

(c) Name of any water quality project completed since the effective date of this chapter, length of project, year of construction, and cost.

(3) Priority rating and ranking.

(a) WSDOT shall establish an annual project priority list for each WSDOT district within the Puget Sound basin. For each fiscal year WSDOT shall select needed improvements for each district inventoried as required by subsection (1) of this section. WSDOT shall divide these needed improvements into projects, considering funds available but in no case less than one project per year in each district unless all needed projects are completed.

(b) Priority rating criteria. WSDOT shall develop a priority rating and ranking system and submit it to ecology for concurrence.

(c) Priority ranking. WSDOT, using the priority ratings and rankings prepared using the system required in subsection (2)(b) of this section, shall determine which projects are to be implemented in each WSDOT district during the fiscal year. WSDOT may modify this ranking for good reason including the participation in a joint project proposed by a local government or tribe.

(4) Capital improvement program plan.

(a) The capital improvement program plan is to promote efficient use of resources, to coordinate projects, to aid compliance with the long-range program targets set forth in subsection (5) of this section and to ensure that difficult projects and those that require lengthy lead time are constructed in a reasonable time.

(b) WSDOT shall prepare a biennially updated water quality capital improvement program plan. WSDOT shall consult with ecology, tribes, and local governments throughout the planning process including the inventory. The capital improvement program plan shall be for a six-year period and include the following:

(i) An inventory of potential projects for the six-year period, including fiscal, technical, work force, legislative requirements, restrictions, and an initial evaluation of their relative priority;

(ii) A schedule for potential execution of projects in a long-range program list which considers priority relationships of projects coupled with legislative, fiscal, technical, and work force restrictions;

(iii) Selection of projects for early action from this schedule; and

(iv) Formal adoption by WSDOT after public review.

(c) Ecology shall review the proposed WSDOT capital improvement program plan and submit written comments to WSDOT before public review and again before adoption by WSDOT.

(d) After a public hearing, WSDOT shall adopt the capital improvement program plan after making appropriate revisions deemed necessary by public input.

(5) Long-range program.

(a) WSDOT shall complete all practicable BMP projects or transmit highway runoff to tribes or local governments for stormwater treatment for highways with an ADT of fifty thousand and greater by December 31, 2005, and for other highways by December 31, 2015.

(b) At least every six years WSDOT and ecology shall evaluate these target dates. Ecology or WSDOT may initiate revision of the target dates. In evaluating any proposed revision of a target date, ecology and WSDOT are to consider factors including, but not limited to, the number and projected costs of the projects yet to be completed, the degree of difficulty to construct the remaining sites, the projected level of funding, any revisions to the state water quality standards and any revisions to the manual required by WAC 173-270-030(1).

(6) Negotiations. Before transmitting to or requesting treatment of highway runoff by a tribe, local government or property owner, WSDOT shall negotiate with the tribe, local government, or property owner. WSDOT shall provide relevant information that shall include, but not be limited to, existing agreements to accept highway runoff, characteristics of the highway runoff, the reasons WSDOT is not treating the runoff on its own right of way and any proposed financial considerations for quality and/or quantity control.

(7) Disposal sites. WSDOT shall prepare an inventory, by district and maintenance area, of all sites, including all known inactive sites, where WSDOT disposes highway sweepings and sediments from stormwater facilities maintenance activities. Inventory information for WSDOT owned and leased sites and sites WSDOT for which has an easement shall include a scaled map illustrating property boundaries and the extent of the fill area, and where possible, an estimate of the volume of the fill present.

[Statutory Authority: Chapters 90.48 and 90.70 RCW. 91-11-091 (Order 91-06), § 173-270-060, filed 5/21/91, effective 6/21/91.]

WAC 173-270-070 Monitoring. (1) BMP effectiveness monitoring.

(a) Monitoring procedures. WSDOT shall formulate and implement monitoring procedures for each type of BMP employed. The procedures shall include a quality assurance and control plan.

(b) Waivers. After application by WSDOT, ecology may grant a waiver from monitoring a BMP if ecology determines there is adequate knowledge about the BMP's water quality performance.

(2) Pesticide monitoring. WSDOT shall formulate a pesticide monitoring policy, including but not limited to, threshold determination and frequency of monitoring. WSDOT also shall formulate procedures for monitoring pesticides, including the use of benthic organisms.

[Statutory Authority: Chapters 90.48 and 90.70 RCW. 91-11-091 (Order 91-06), § 173-270-070, filed 5/21/91, effective 6/21/91.]

WAC 173-270-080 Reporting. (1) Biennial report required. WSDOT shall prepare and submit to ecology a report by September 30 of each odd-numbered year beginning September 30, 1991.

(2) Content of report. The biennial report shall include, but is not limited to:

(a) Monitoring report for both approved and experimental BMPs and pesticides describing monitoring procedures and interpreting results. Included may be recommendations to improve monitoring procedures, findings on which BMPs are the most effective, combinations of BMPs that optimize pollution removal, and recommendations for experimental BMPs;

(b) A pesticide usage inventory, including (i) the amount of pesticides by product by pounds of active ingredient applied for shoulder residual, landscaped areas, brush control, general weed control, noxious weed control, spot treatment and broadcast application by district, area, highway segment, and if feasible, by county and (ii) an analysis and interpretation shall be included with the data;

(c) Storage, loading, and mixing area soil and ground water contamination report for the presence of pesticides, including any cleanup efforts required, proposed, or completed since the adoption of this chapter;

(d) A deicing chemicals and traction grit usage report including:

(i) Product and quantities of deicing chemicals used in the Puget Sound basin by WSDOT district and maintenance area including chemical properties and known effects upon water quality;

(ii) Stockpile locations, with quantities of traction grit abrasive and deicing chemicals used during each season;

(iii) Cleanup practices to prevent or lessen traction grit and deicing chemical entry into waters of the state;

(iv) Locations prohibiting use of deicing chemicals or specific products due to water quality considerations;

(v) Training of personnel;

(vi) Experiments conducted on new products or procedures and experiments that WSDOT proposes;

(e) BMP maintenance report. Reports that shall submit BMP maintenance reports to ecology that shall include, but are not limited to:

(i) Dates that segments of state highway BMPs are inspected and/or maintained;

(ii) The general condition of BMPs;

(iii) Maintenance accomplished;

(iv) The need to reconstruct any BMPs;

(v) Any evaluation of a BMP type;

(vi) Estimated cost to maintain a BMP;

(vii) Suggested improvements to BMPs or their maintenance procedures; and

(viii) Training of personnel;

(f) Inventory for state highways with a fifty thousand ADT or greater required by WAC 173-270-060(1);

(g) Priority list for state highways with less than fifty thousand ADT required by WAC 173-270-060(3);

(h) Capital improvement program required by WAC 173-270-060(4);

(i) Inventory of all WSDOT highway disposal sites required by WAC 173-270-060(6);

(j) Status of roadside management plans by district and maintenance area; and

(k) A summary of the negotiations required by WAC 173-270-060(6).

[Statutory Authority: Chapters 90.48 and 90.70 RCW. 91-11-091 (Order 91-06), § 173-270-080, filed 5/21/91, effective 6/21/91.]

WAC 173-270-090 Enforcement. Water quality requirements of this chapter shall be enforced through all methods available to ecology, including, but not limited to, those described in chapter 90.48 RCW. For all nonwater quality shortfalls WSDOT shall submit written explanation to ecology, together with proposed remedies.

[Statutory Authority: Chapters 90.48 and 90.70 RCW. 91-11-091 (Order 91-06), § 173-270-090, filed 5/21/91, effective 6/21/91.]

WAC 173-270-100 Severability. If any provision of this chapter or its application to any person, entity, or circumstance is held invalid, the remainder of this chapter or the application of the provision to other persons, entities, or circumstances shall not be affected.

[Statutory Authority: Chapters 90.48 and 90.70 RCW. 91-11-091 (Order 91-06), § 173-270-100, filed 5/21/91, effective 6/21/91.]

Chapter 173-300 WAC

CERTIFICATION OF OPERATORS OF SOLID WASTE INCINERATOR AND LANDFILL FACILITIES

WAC

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WAC 173-300-010 Authority and purpose. One of the basic requirements of the act relating to solid waste (chapter 431, Laws of 1989) is to have the owner or operator in responsible charge of a solid waste incinerator or solid waste landfill certified in the operation and maintenance of the facility. To achieve this, the department shall, to the greatest extent possible, rely on the certification standards and procedures developed by national organizations and the federal government. Certification under this act is available to all individuals who can meet the minimum qualifications for a given type of facility. Operating personnel not required to be certified by chapter 70.95D RCW are encouraged to become certified on a voluntary basis. NOTE: All codes, standards, or rules cited in this chapter are available for inspection at the Department of Ecology, 300 Desmond Drive S.E., Lacey, Washington.

[Statutory Authority: 1989 c 431. 00-19-017 (Order 00-16), § 173-300-010, filed 9/8/00, effective 10/9/00. Statutory Authority: Chapter 70.95D RCW and RCW 70.95.710. 91-01-093, § 173-300-010, filed 12/18/90, effective 1/1/91.]

WAC 173-300-020 Definitions. (1) "Ash" means the residue and includes any air pollution flue dusts from combustion or incineration of material including solid wastes.

Note: Please see definition for "special incinerator ash."

(2) "Biomedical waste" means solid waste of the following types:

(a) "Animal waste," which includes waste animal carcasses, body parts, and bedding of animals that were known to have been deliberately infected or inoculated with human pathogenic microorganisms during research.

(b) "Liquid human body fluids" means waste that includes waste liquid emanating or derived from humans including but not limited to human blood and blood products, serum and plasma, sputum, drainage secretions, cerebrospinal fluid, synovial fluid, pleural fluid, peritoneal fluid, pericardial fluid and amniotic fluid that exceeds fifty milliliters per container, storage vessel, or plastic bag and cannot be and has not been directly discarded into a sanitary sewage system.

(c) "Cultures and stocks" means waste that includes waste cultures and stocks of microbiological agents infectious to humans, human serums and discarded live and attenuated vaccines infectious to humans, human blood specimens, and laboratory wastes that are contaminated with these agents or specimens.

(d) "Biosafety level 4 disease waste," which includes wastes contaminated with blood, excretions, exudates, or secretions from humans or animals who are isolated to protect others from highly communicable infectious diseases that are identified as viruses assigned to Biosafety Level 4 by the Centers for Disease Control, National Institute of Health, Biosafety in Microbiological and Biomedical Laboratories, 2nd Edition, 1988. These viruses include, but are not limited to, Congo-Crimean hemorrhagic fever, tick-borne encephalitis virus complex (Absettarov, Hanzalova, Hypr, Kumlinge, Kyasanur Forest disease, Omsk hemorrhagic fever, and Russian spring-summer encephalitis), Marburg, Ebola, Junin, Lassa, and Machupo.

(e) "Pathological waste," which includes waste human source biopsy materials, tissues, and anatomical parts that emanate from surgery, obstetrical procedures, autopsy, and laboratory procedures. "Pathological waste" does not include teeth or formaldehyde or other preservative agents, human corpses, remains, and anatomical parts that are intended for interment or cremation.

(f) "Sharps waste," which includes waste hypodermic needles, syringes, IV tubing with needles attached, scalpel blades, and lancets that have been used in animal or human patient care or treatment in medical research.

(3) "Biomedical waste treatment" means incineration, steam sterilization, or any method, technique, or process that changes the biological character or composition of biomedical waste to render it noninfectious. Any waste, except sharps, that has been treated is not considered to be biohazardous or biomedical.

(4) "Board" means the board of advisors for solid waste incinerator and landfill certification established by RCW 70.95D.050.

(5) "Certificate" means the certificate of competency issued by the director stating that the operator has met the requirements for the operation and maintenance of a specific classification of solid waste incinerator or landfill facility.

(6) "Certificate holder" means the individual to whom a certificate is issued.

(7) "Commercial waste" means nonhazardous solid waste that is generated by the commercial business sector.

(8) "Department" means the Washington state department of ecology.

(9) "Director" means the director of the department of ecology or the director's designee.

(10) "Fee" means only those monies to be paid for examinations, certification, or renewal.

Note: Fees do not include the costs of training or other educational opportunities.

(11) "Hog fuel" means woodwaste that is reduced in size to facilitate burning.

(12) "Incineration" means reducing the volume of solid wastes by use of an enclosed device using controlled flame combustion.

(13) "Incinerator" means an enclosed mechanical combustion device that has as its primary purpose the burning and reduction of the volume of solid waste or solid waste-derived fuel. Crematoria facilities that have combustion devices which burn human corpses, or burn animal bodies exclusively, in a manner that is not a solid waste reduction measure, or burn primarily hog fuel waste are not included in this definition. NOTE: Crematoria facilities that burn any kind of biomedical, treated or untreated medical waste, human or animal, or other solid waste, in their incinerator are subject to this rule.

(14) "Incineration facility" means any municipal or private activity that has as part of its operations a solid waste incinerator. It may also include means for storage, preparation, and conveyance of the solid waste fuel, and air pollution control equipment.

(15) "Incinerator operator in responsible charge" means an individual who is the owner or who is designated as the on-site operator in responsible charge of operation and maintenance duties at a solid waste incineration facility.

(16) "Inspector" means any person employed by any public agency that inspects the operation of solid waste incinerators, or the operation of solid waste landfills, to determine the compliance of the facility with state and local laws or rules.

(17) "Institutional waste" means nonhazardous solid waste that is generated by any commercial or noncommercial service establishment.

(18) "Landfill" means an operating disposal facility or part of a facility at which solid waste is placed in or on land and which is not a land treatment.

(19) "Landfill operator in responsible charge" means an individual who is the owner or who is designated as the on-site or on-call operator in responsible charge of operation and maintenance duties at a landfill facility.

(20) "Limited purpose landfill" means a landfill that receives solid waste of a limited type or types of known and consistent composition.

(21) "Monofill" means a disposal facility or part of a facility that is not a land treatment facility, at which only a single, specific substance is deposited in or on.

(22) "Municipal solid waste" means any combination of nonhazardous solid waste generated by residential sources, and any institutional waste, commercial waste, and industrial waste. NOTE: Household hazardous wastes are an excluded waste under WAC 173-303-071 and therefore may be disposed of in a municipal or incinerated landfill or incinerated. Small quantities of hazardous waste may also be landfilled if the waste complies with WAC 173-303-070 (8)(a) and (b).

(23) "Owner" means:

(a) In the case of a town or city, the city or town acting through its chief executive officer or the lessee if operated under a lease or contract;

(b) In the case of a county, the chief elected official of the county legislative authority or the chief elected official's designee;

(c) In the case of a board of public utilities, association, municipality, or other public body, the president or chief elected official of the body or the president's or chief elected official's designee;

(d) In the case of a privately owned landfill or incinerator, the legal owner.

(24) "Reciprocity" means the automatic recognition of comparable training from another state, the federal government, a local government, or a professional association. NOTE: Correction of deficiencies such as a lack of training in Washington state solid waste law is required for certification.

(25) "Reserved" is a note to the regulated community that means a section that has no requirements and which is set aside for future possible rule-making.

(26) "Solid waste" or "wastes" as defined in RCW 70.95.030 (1989 ed.) means all putrescible and nonputrescible solid and semisolid wastes including, but not limited to, garbage, rubbish, ashes, industrial wastes, swill, demolition and construction wastes, abandoned vehicles or parts thereof, and recyclable materials. NOTE: Treated biomedical waste or medical waste not defined as biomedical waste is considered to be solid waste. Woodwaste is also considered solid waste.

(27) "Special incinerator ash" means ash residues that results from the operation of incineration or energy recovery facilities which manage municipal solid waste from residential, commercial, and industrial establishments, if the ash residues are:

(a) Not otherwise regulated as hazardous wastes under chapter 70.105 RCW; and

(b) Are not regulated as a hazardous waste under the federal Resource Conservation and Recovery Act, 42 U.S.C. Sec. 6901 et seq.

(28) "Woodwaste" means solid waste that consists of wood pieces or particles generated as a by-product or waste from the manufacturing of wood products, and the handling and storage of raw materials, trees, and stumps. This includes but is not limited to sawdust, chips, shavings, bark, pulp, and log sort yard waste, but does not include wood pieces or particles containing chemical preservatives such as creosote, pentachlorophenol, or copper-chrome-arsenate.

Note: All applicable terms not defined above have the same meaning as those defined in chapter 173-304 WAC.

[Statutory Authority: 1989 c 431. 00-19-017 (Order 00-16), § 173-300-020, filed 9/8/00, effective 10/9/00. Statutory Authority: Chapter 70.95D RCW and RCW 70.95.710. 91-01-093, § 173-300-020, filed 12/18/90, effective 1/1/91.]

WAC 173-300-030 Duties of the board of advisors. (1) As a standing subcommittee of the state's solid waste advisory committee created under RCW 70.95D.050, the board of advisors shall report to the solid waste advisory committee four times a year or as directed in accordance with RCW 70.95D.040.

(2) The board shall act as an advisory committee to the department and shall assist in the development and review of the rules adopted under this chapter.

(3) The board shall assist in the development and evaluation of the training and testing material required for certification.

(4) On matters of revocation of certification, the board shall hold a hearing and make recommendations to the director.

(5) The board shall encourage operating personnel other than those who are required to be certified in chapter 70.95D RCW to become certified on a voluntary basis.

(6) Members shall receive no compensation for their services but must be reimbursed for their travel expenses while engaged in business of the committee in accordance with RCW 43.03.050 and 43.03.060 as now existing or hereafter amended.

[Statutory Authority: 1989 c 431. 00-19-017 (Order 00-16), § 173-300-030, filed 9/8/00, effective 10/9/00. Statutory Authority: Chapter 70.95D RCW and RCW 70.95.710. 91-01-093, § 173-300-030, filed 12/18/90, effective 1/1/91.]

WAC 173-300-040 Board of advisors—Staff services and facilities. The department shall furnish necessary staff services and facilities required by the board of advisors.

[Statutory Authority: Chapter 70.95D RCW and RCW 70.95.710. 91-01-093, § 173-300-040, filed 12/18/90, effective 1/1/91.]

WAC 173-300-050 Operator certification required at incineration facilities. (1) After January 1, 1992, it is unlawful to operate a solid waste incineration facility without a certified operator in responsible charge on-site during all hours of operation.

(2) All other operational employees are to be encouraged to become certified on a voluntary basis.

[Statutory Authority: 1989 c 431. 00-19-017 (Order 00-16), § 173-300-050, filed 9/8/00, effective 10/9/00. Statutory Authority: Chapter 70.95D RCW and RCW 70.95.710. 91-01-093, § 173-300-050, filed 12/18/90, effective 1/1/91.]

WAC 173-300-060 Operator certification required at landfill facilities. (1) After January 1, 1992, it is unlawful to operate the following types of landfills without an on-site certified landfill operator in responsible charge during all hours of operation when accepting waste, and during the closure phase of the facility. The operator's specific role in the

closure phase must be specified in the closure plan. However, the certified operator may be away from the facility on official business or personal emergencies for periods of one day or less if they are on-call and available to respond in case of an emergency at the facility.

(a) All municipal waste landfills.

(b) All problem waste landfills. NOTE: Problem waste landfills are presently reserved per WAC 173-304-463.

(c) All special incinerator ash landfills or monofills. NOTE: In a case where a monofill is a separate cell at a municipal waste landfill, the responsible operator in charge of the complete facility may assume responsibility of the operation of the monofills.

(d) All inert waste and demolition waste landfills.

(e) All limited purpose solid waste landfills.

(2) These standards do not apply to:

(a) Dangerous waste landfills;

(b) Drop box facilities;

(c) Interim solid waste handling sites;

(d) Landspreading disposal facilities;

(e) Piles;

(f) Transfer stations;

(g) Waste recycling facilities; and

(h) Composting facilities.

(3) Owners of small landfills with a total capacity at closure of two hundred thousand cubic yards of solid waste or less, may apply to the department to have their facility operated and maintained by a certified operator who is in responsible charge on an on-call basis at all times the landfill is operating: Provided, That a certified operator visit the site once each working day. The department shall consider all applications on a case-by-case basis. The department shall base its decision on the following requirements:

(a) A physical inspection of the facility by the department to determine whether the facility is being operated in a manner that is protective of human health and the environment;

(b) That the facility has an up-to-date approved facility operating plan and is in compliance with all other sections of chapter 173-304 WAC;

(c) That the status of all facility variances, compliance schedules, and related grants are current as required; and

(d) That the facility strictly adheres to all other applicable laws and rules.

(4) All landfills that have on-call designations shall reapply for the designation every five years from the date of issuance. This designation may be revoked at any time the facility does not meet the minimum requirements.

(5) When a position required to be filled by an on-site certified landfill operator is vacated for a period of not longer than a maximum of thirty calendar days due to an emergency such as a short-term illness, the landfill owner may apply to the department for a variance that allows the facility be operated and maintained by a certified operator on an on-call basis as outlined in this section. These requirements may be waived temporarily at the director's discretion.

(6) All other operational employees are to be encouraged to become certified on a voluntary basis.

[Statutory Authority: 1989 c 431. 00-19-017 (Order 00-16), § 173-300-060, filed 9/8/00, effective 10/9/00. Statutory Authority: Chapter 70.95D RCW and RCW 70.95.710. 91-01-093, § 173-300-060, filed 12/18/90, effective 1/1/91.]

WAC 173-300-070 Certification of inspectors. (1) Any person who is employed by a public agency to inspect the operation of a landfill or incinerator described under this chapter to determine the compliance of the facility with state or local laws or rules shall receive, in addition to the successful completion of the training and examination process as an operator under this chapter, training relevant to the inspection procedure.

(2) Inspectors are exempt from all certification fees.

[Statutory Authority: 1989 c 431. 00-19-017 (Order 00-16), § 173-300-070, filed 9/8/00, effective 10/9/00. Statutory Authority: Chapter 70.95D RCW. 91-12-040 (Order 91-30), § 173-300-070, filed 6/4/91, effective 7/5/91. Statutory Authority: Chapter 70.95D RCW and RCW 70.95.710. 91-01-093, § 173-300-070, filed 12/18/90, effective 1/1/91.]

WAC 173-300-080 Applications and certification requirements. (1) An application for incineration, landfill operator, or inspector certification must be filed with the department. An application fee shall accompany each application. The department shall make application forms available upon request.

(2) Upon receipt of the completed application and application fee, the department shall determine:

(a) If the applicant has successfully completed the required training and examinations;

(b) The status of a reciprocal certification; and

(c) That the facility at which the applicant is employed is in compliance with local and state laws or rules.

(3) Upon successful determination of all requirements and the payment of the certification fees provided for in WAC 173-300-110 and 173-300-120, the appropriate operator or inspector certificate will be issued.

(4) An owner may apply for a variance for a temporary certificate without an examination to fill a vacated position required by WAC 173-300-050 and 173-300-060 to have a certified operator, or 173-300-070, in the case of a certified inspector. A temporary certificate must be valid for a period of not more than twelve months from date of issue.

(5) Persons who hold a current operators certificate from any national organization, educational institution, the federal government, other states, or a province may be granted an interim certification if the applicant meets the requirements of WAC 173-300-140.

(a) No interim certification may be issued or be valid after January 1, 1992.

(b) Interim certification may not automatically qualify an operator for certification.

[Statutory Authority: 1989 c 431. 00-19-017 (Order 00-16), § 173-300-080, filed 9/8/00, effective 10/9/00. Statutory Authority: Chapter 70.95D RCW and RCW 70.95.710. 91-01-093, § 173-300-080, filed 12/18/90, effective 1/1/91.]

WAC 173-300-090 Training and examinations. (1) The department shall prepare or cause to be prepared educational materials and opportunities to fulfill requirements of WAC 173-300-080(2) to help develop the skills necessary to operate a solid waste incinerator or solid waste landfill according to state and federal laws.

(2) The board of advisors shall assist in the development of written examinations to be used in determining the competency of operators. Incinerator operators are also required to successfully complete an examination to determine the competency needed to operate and maintain the facility for which the operator is responsible.

(3) Examinations must be held immediately at the end of all required operator training courses. Additional examinations must be held at places and times set by the board.

(4) All examinations must be graded by the department or the department's designee and the applicant must be notified by mail of the score attained. Examinations may not be returned to the applicant.

(5) An applicant who fails to pass an examination must be reexamined at the next scheduled examination. An additional application form and examination fee is required. No individual will be allowed to retake the same examination.

(6) An applicant who fails to pass a second examination is required to repeat the certification training.

(7) The board shall forward the recommendations for certification of those examined to the director.

[Statutory Authority: 1989 c 431. 00-19-017 (Order 00-16), § 173-300-090, filed 9/8/00, effective 10/9/00. Statutory Authority: Chapter 70.95D RCW and RCW 70.95.710. 91-01-093, § 173-300-090, filed 12/18/90, effective 1/1/91.]

WAC 173-300-100 Certificate term. Except as provided for in WAC 173-300-080(4), the term for any certificate or renewal thereof is from the first of January of the year of issuance until the thirty-first of December three years thereafter.

[Statutory Authority: 1989 c 431. 00-19-017 (Order 00-16), § 173-300-100, filed 9/8/00, effective 10/9/00. Statutory Authority: Chapter 70.95D RCW and RCW 70.95.710. 91-01-093, § 173-300-100, filed 12/18/90, effective 1/1/91.]

WAC 173-300-110 Renewal of certificate. (1) Except as provided in WAC 173-300-080(4), all certificates held by incinerator operators, landfill operators, and inspectors are renewable upon presentation of evidence that the certificate holder successfully completed a refresher course administered by the department, and successfully attended other professional educational opportunities approved by the department.

(2) The department shall mail renewal notices and refresher course information to all certificate holders eligible for renewal four months before the date the certificate expires.

[Statutory Authority: 1989 c 431. 00-19-017 (Order 00-16), § 173-300-110, filed 9/8/00, effective 10/9/00. Statutory Authority: Chapter 70.95D RCW and RCW 70.95.710. 91-01-093, § 173-300-110, filed 12/18/90, effective 1/1/91.]

WAC 173-300-120 Fees. (1) A fee of $50.00 for each examination administered by the department shall accompany the application for examination.

(2) After an applicant successfully completes the examination and is notified by the department of the results, the applicant shall pay a certification fee of $200.00 to the department within thirty days of the date of the results notification.

(3) A fee of $50.00 is required to apply for consideration of certification through reciprocity under WAC 173-300-140. After determining that the reciprocal criteria has been met, the department will notify the applicant:

(a) That the applicant is deficient in a required area, and the process to correct the deficiency; or

(b) That the applicant has successfully completed all requirements for certification and that the applicant must pay a certification fee of $200.00 to the department within thirty days of the date of notification.

(4) A $200.00 renewal fee must accompany an application for certificate renewal.

[Statutory Authority: 1989 c 431. 00-19-017 (Order 00-16), § 173-300-120, filed 9/8/00, effective 10/9/00. Statutory Authority: Chapter 70.95D RCW and RCW 70.95.710. 91-01-093, § 173-300-120, filed 12/18/90, effective 1/1/91.]

WAC 173-300-130 Revocation. (1) When a certificate is not renewed, the certificate, upon notice by the director, must be suspended for sixty days.

(a) If renewal of the certificate is not completed during the suspension period, the director shall mail a written notice of revocation by certified mail to the certificate holder's employer as last known by the department and to the certificate holder at the address last known by the department.

(b) If, during the revocation notice period, the certificate is not renewed, the certificate must be revoked ten days after the notice is mailed.

(2) Certificates may also be revoked when a majority of the board so recommends to the director, and the director agrees, upon finding:

(a) Fraud or deceit in obtaining the certificate;

(b) Gross negligence in the operation or inspection of an incineration or landfill facility;

(c) Violation of the requirements of chapter 70.95D RCW, this chapter or of any lawful rule or order of the department; or if

(d) The facility operated by the certified employee is operated in violation of local, state, or federal environmental laws.

(3) No revocation may be made under subsection (2) of this section unless the operator has been notified that revocation is proposed, has been advised of the grounds therefore, and has been given an opportunity to appear before the board and be heard on the matter.

(4) A person whose certificate is revoked under this section is eligible to apply for a certificate for one year from the effective date of the final order of revocation.

(5) Whenever an individual's certificate is revoked, the individual may not be certified again until:

(a) He or she has repeated all required training for certification or has completed other requirements recommended by the board and approved by the department;

(b) Has applied for certification under WAC 173-300-090;

(c) Paid the application fees; and

(d) Upon notification, paid the certification fee within thirty days of notification.

[Statutory Authority: 1989 c 431. 00-19-017 (Order 00-16), § 173-300-130, filed 9/8/00, effective 10/9/00. Statutory Authority: Chapter 70.95D RCW

and RCW 70.95.710. 91-01-093, § 173-300-130, filed 12/18/90, effective 1/1/91.]

WAC 173-300-140 Reciprocity. The director may, with the approval of the board of advisors, waive examinations for applicants who hold valid incinerator or landfill operators certificates, or inspector certificates issued by other states, a province, the federal government, or a professional association that has comparable standards as determined by the board.

(1) Applications for reciprocity will be considered when:

(a) The training received by the applicant is comparable to training offered by the state of Washington. A detailed syllabus outlining all relevant training must be released by the appropriate training facility for review and approval by the board. Those applicants with deficiencies shall resolve the deficiencies before certification is granted. Applicants must contact the department within one year of application;

(b) The department receives written confirmation from the certifying authority of the state, province, the federal government, or professional association in which the applicant is certified, that the certificate is currently valid and was earned by passing a written examination. A copy of the exam passed by the applicant must also be released for review by the board; and

(c) The application fee is received.

(2) The board shall review and compare out-of-state examinations with Washington's examinations to determine at which level the examination is most equivalent.

(3) Training in state of Washington solid waste law is required for certification.

(4) Incinerator operators are required to successfully complete an examination to determine the competency needed to operate and maintain the facility for which the operator is currently responsible.

(5) Certificates must be issued to each reciprocity applicant who meets the minimum training and examination requirements set forth in WAC 173-300-080. Upon notification by the department that the applicant meets all the criteria, the certification fee is due within thirty days from the date of notification.

[Statutory Authority: 1989 c 431. 00-19-017 (Order 00-16), § 173-300-140, filed 9/8/00, effective 10/9/00. Statutory Authority: Chapter 70.95D RCW and RCW 70.95.710. 91-01-093, § 173-300-140, filed 12/18/90, effective 1/1/91.]

WAC 173-300-150 Unlawful acts—Variance from requirements. After January 1, 1992, it is unlawful for any person, firm, corporation, municipal corporation, or other governmental subdivision or agency to operate a solid waste incineration or landfill facility unless an operator in responsible charge is duly certified by the director under this chapter or any lawful rule or order of the department. The department shall allow the owner or operator of a landfill or solid waste incineration facility to request a variance from this requirement under emergency conditions. Emergency conditions may include but are not limited to unexpected health related problems that incapacitate the operator or an unexpected termination of employment of the operator. The department may impose conditions that may be necessary to protect human health and the environment during the term of the variance.

[Statutory Authority: 1989 c 431. 00-19-017 (Order 00-16), § 173-300-150, filed 9/8/00, effective 10/9/00. Statutory Authority: Chapter 70.95D RCW and RCW 70.95.710. 91-01-093, § 173-300-150, filed 12/18/90, effective 1/1/91.]

WAC 173-300-160 Penalties. Any person, including any firm, corporation, municipal corporation, or other governmental subdivision or agency, with the exception of incinerator operators, who violates any provision of this chapter, is guilty of a misdemeanor. Incinerator operators who violate any provision of this chapter are guilty of a gross misdemeanor. Each day of operation in violation of this chapter shall constitute a separate offense. The prosecuting attorney or the attorney general, as appropriate, shall secure injunctions of continuing violations of any provisions of this chapter.

[Statutory Authority: 1989 c 431. 00-19-017 (Order 00-16), § 173-300-160, filed 9/8/00, effective 10/9/00. Statutory Authority: Chapter 70.95D RCW and RCW 70.95.710. 91-01-093, § 173-300-160, filed 12/18/90, effective 1/1/91.]

WAC 173-300-170 Appeals. Decisions of the director under this chapter may be appealed within thirty days from the date of notice thereof to the pollution control hearings board under chapter 43.21B RCW and chapter 370-08 WAC.

[Statutory Authority: 1989 c 431. 00-19-017 (Order 00-16), § 173-300-170, filed 9/8/00, effective 10/9/00. Statutory Authority: Chapter 70.95D RCW and RCW 70.95.710. 91-01-093, § 173-300-170, filed 12/18/90, effective 1/1/91.]

WAC 173-300-180 Incineration of biomedical or medical waste. Incineration of biomedical, treated or untreated medical waste must be conducted under sufficient burning conditions to reduce all combustible material to a form so that no portion of the combustible material is visible in its uncombusted state.

[Statutory Authority: 1989 c 431. 00-19-017 (Order 00-16), § 173-300-180, filed 9/8/00, effective 10/9/00. Statutory Authority: Chapter 70.95D RCW and RCW 70.95.710. 91-01-093, § 173-300-180, filed 12/18/90, effective 1/1/91.]

Chapter 173-303 WAC
DANGEROUS WASTE REGULATIONS

WAC

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