Title 173 WAC

ECOLOGY, DEPARTMENT OF

Chapters

DISPOSITION OF CHAPTERS FORMERLY CODIFIED IN THIS TITLE

Chapter 173-180A
FACILITY OIL-HANDLING OPERATIONS AND DESIGN STANDARDS

173-180A-010	Purpose. [Statutory Authority: RCW 90.56.220. 94-10-084, § 173-180A-010, filed 5/4/94, effective 6/4/94.] Repealed by 07-22-118 (Order 07-13), filed 11/7/07, effective 12/8/07. Statutory Authority: Chapters 90.56, 88.46, 90.48 RCW.
173-180A-020	Authority. [Statutory Authority: RCW 90.56.220. 94-10-084, § 173-180A-020, filed 5/4/94, effective 6/4/94.] Repealed by 07-22-118 (Order 07-13), filed 11/7/07, effective 12/8/07. Statutory Authority: Chapters 90.56, 88.46, 90.48 RCW.
173-180A-030	Definitions. [Statutory Authority: RCW 90.56.220. 94-10-084, § 173-180A-030, filed 5/4/94, effective 6/4/94.] Repealed by 07-22-118 (Order 07-13), filed 11/7/07, effective 12/8/07. Statutory Authority: Chapters 90.56, 88.46, 90.48 RCW.
173-180A-040	Applicability. [Statutory Authority: RCW 90.56.220. 94-10-084, § 173-180A-040, filed 5/4/94, effective 6/4/94.] Repealed by 07-22-118 (Order 07-13), filed 11/7/07, effective 12/8/07. Statutory Authority: Chapters 90.56, 88.46, 90.48 RCW.
173-180A-050	Compliance schedule. [Statutory Authority: RCW 90.56.220. 94-10-084, § 173-180A-050, filed 5/4/94, effective 6/4/94.] Repealed by 07-22-118 (Order 07-13), filed 11/7/07, effective 12/8/07. Statutory Authority: Chapters 90.56, 88.46, 90.48 RCW.
173-180A-060	Vessel transfer requirements. [Statutory Authority: RCW 90.56.220. 94-10-084, § 173-180A-060, filed 5/4/94, effective 6/4/94.] Repealed by 07-22-118 (Order 07-13), filed 11/7/07, effective 12/8/07. Statutory Authority: Chapters 90.56, 88.46, 90.48 RCW.
173-180A-070	Transmission pipeline transfer requirements. [Statutory Authority: RCW 90.56.220. 94-10-084, § 173-180A-070, filed 5/4/94, effective 6/4/94.] Repealed by 07-22-118 (Order 07-13), filed 11/7/07, effective 12/8/07. Statutory Authority: Chapters 90.56, 88.46, 90.48 RCW.
173-180A-080	Secondary containment requirements for aboveground storage tanks. [Statutory Authority: RCW 90.56.220. 94-10-084, § 173-180A-080, filed 5/4/94, effective 6/4/94.] Repealed by 07-22-118 (Order 07-13), filed 11/7/07, effective 12/8/07. Statutory Authority: Chapters 90.56, 88.46, 90.48 RCW.
173-180A-090	Storage tank requirements. [Statutory Authority: RCW 90.56.220. 94-10-084, § 173-180A-090, filed 5/4/94, effective 6/4/94.] Repealed by 07-22-118 (Order 07-13), filed 11/7/07, effective 12/8/07. Statutory Authority: Chapters 90.56, 88.46, 90.48 RCW.
173-180A-100	Transfer pipeline requirements. [Statutory Authority: RCW 90.56.220. 94-10-084, § 173-180A-100, filed 5/4/94, effective 6/4/94.] Repealed by 07-22-118 (Order 07-13), filed 11/7/07, effective 12/8/07. Statutory Authority: Chapters 90.56, 88.46, 90.48 RCW.
173-180A-110	Inspections. [Statutory Authority: RCW 90.56.220. 94-10-084, § 173-180A-110, filed 5/4/94, effective 6/4/94.] Repealed by 07-22-118 (Order 07-13), filed 11/7/07, effective 12/8/07. Statutory Authority: Chapters 90.56, 88.46, 90.48 RCW.
173-180A-120	Recordkeeping. [Statutory Authority: RCW 90.56.220. 94-10-084, § 173-180A-120, filed 5/4/94, effective 6/4/94.] Repealed by 07-22-118 (Order 07-13), filed 11/7/07, effective 12/8/07. Statutory Authority: Chapters 90.56, 88.46, 90.48 RCW.
173-180A-130	Noncompliance. [Statutory Authority: RCW 90.56.220. 94-10-084, § 173-180A-130, filed 5/4/94, effective 6/4/94.] Repealed by 07-22-118 (Order 07-13), filed 11/7/07, effective 12/8/07. Statutory Authority: Chapters 90.56, 88.46, 90.48 RCW.
173-180A-140	Rule review. [Statutory Authority: RCW 90.56.220. 94-10-084, § 173-180A-140, filed 5/4/94, effective 6/4/94.] Repealed by 07-22-118 (Order 07-13), filed 11/7/07, effective 12/8/07. Statutory Authority: Chapters 90.56, 88.46, 90.48 RCW.
173-180A-150	Severability. [Statutory Authority: RCW 90.56.220. 94-10-084, § 173-180A-150, filed 5/4/94, effective 6/4/94.] Repealed by 07-22-118 (Order 07-13), filed 11/7/07, effective 12/8/07. Statutory Authority: Chapters 90.56, 88.46, 90.48 RCW.

Chapter 173-180B
FACILITY OIL-HANDLING OPERATIONS MANUAL STANDARDS

173-180B-010	Purpose. [Statutory Authority: RCW 90.56.230. 94-10-083, § 173-180B-010, filed 5/4/94, effective 6/4/94.] Repealed by 07-22-118 (Order 07-13), filed 11/7/07, effective 12/8/07. Statutory Authority: Chapters 90.56, 88.46, 90.48 RCW.
173-180B-020	Authority. [Statutory Authority: RCW 90.56.230. 94-10-083, § 173-180B-020, filed 5/4/94, effective 6/4/94.] Repealed by 07-22-118 (Order 07-13), filed 11/7/07,

effective 12/8/07. Statutory Authority: Chapters 90.56, 88.46, 90.48 RCW.

173-180B-030 Definitions. [Statutory Authority: RCW 90.56.230. 94-10-083, § 173-180B-030, filed 5/4/94, effective 6/4/94.] Repealed by 07-22-118 (Order 07-13), filed 11/7/07, effective 12/8/07. Statutory Authority: Chapters 90.56, 88.46, 90.48 RCW.

173-180B-040 Applicability. [Statutory Authority: RCW 90.56.230. 94-10-083, § 173-180B-040, filed 5/4/94, effective 6/4/94.] Repealed by 07-22-118 (Order 07-13), filed 11/7/07, effective 12/8/07. Statutory Authority: Chapters 90.56, 88.46, 90.48 RCW.

173-180B-050 Manual preparation. [Statutory Authority: RCW 90.56.230. 94-10-083, § 173-180B-050, filed 5/4/94, effective 6/4/94.] Repealed by 07-22-118 (Order 07-13), filed 11/7/07, effective 12/8/07. Statutory Authority: Chapters 90.56, 88.46, 90.48 RCW.

173-180B-060 Manual format requirements. [Statutory Authority: RCW 90.56.230. 94-10-083, § 173-180B-060, filed 5/4/94, effective 6/4/94.] Repealed by 07-22-118 (Order 07-13), filed 11/7/07, effective 12/8/07. Statutory Authority: Chapters 90.56, 88.46, 90.48 RCW.

173-180B-070 Manual content requirements. [Statutory Authority: RCW 90.56.230. 94-10-083, § 173-180B-070, filed 5/4/94, effective 6/4/94.] Repealed by 07-22-118 (Order 07-13), filed 11/7/07, effective 12/8/07. Statutory Authority: Chapters 90.56, 88.46, 90.48 RCW.

173-180B-080 Manual submittal. [Statutory Authority: RCW 90.56.230. 94-10-083, § 173-180B-080, filed 5/4/94, effective 6/4/94.] Repealed by 07-22-118 (Order 07-13), filed 11/7/07, effective 12/8/07. Statutory Authority: Chapters 90.56, 88.46, 90.48 RCW.

173-180B-090 Manual review. [Statutory Authority: RCW 90.56.230. 94-10-083, § 173-180B-090, filed 5/4/94, effective 6/4/94.] Repealed by 07-22-118 (Order 07-13), filed 11/7/07, effective 12/8/07. Statutory Authority: Chapters 90.56, 88.46, 90.48 RCW.

173-180B-100 Manual maintenance and use. [Statutory Authority: RCW 90.56.230. 94-10-083, § 173-180B-100, filed 5/4/94, effective 6/4/94.] Repealed by 07-22-118 (Order 07-13), filed 11/7/07, effective 12/8/07. Statutory Authority: Chapters 90.56, 88.46, 90.48 RCW.

173-180B-110 Inspections. [Statutory Authority: RCW 90.56.230. 94-10-083, § 173-180B-110, filed 5/4/94, effective 6/4/94.] Repealed by 07-22-118 (Order 07-13), filed 11/7/07, effective 12/8/07. Statutory Authority: Chapters 90.56, 88.46, 90.48 RCW.

173-180B-120 Manual update timeline. [Statutory Authority: RCW 90.56.230. 94-10-083, § 173-180B-120, filed 5/4/94, effective 6/4/94.] Repealed by 07-22-118 (Order 07-13), filed 11/7/07, effective 12/8/07. Statutory Authority: Chapters 90.56, 88.46, 90.48 RCW.

173-180B-130 Noncompliance with manual requirements. [Statutory Authority: RCW 90.56.230. 94-10-083, § 173-180B-130, filed 5/4/94, effective 6/4/94.] Repealed by 07-22-118 (Order 07-13), filed 11/7/07, effective 12/8/07. Statutory Authority: Chapters 90.56, 88.46, 90.48 RCW.

173-180B-140 Severability. [Statutory Authority: RCW 90.56.230. 94-10-083, § 173-180B-140, filed 5/4/94, effective 6/4/94.] Repealed by 07-22-118 (Order 07-13), filed 11/7/07, effective 12/8/07. Statutory Authority: Chapters 90.56, 88.46, 90.48 RCW.

Chapter 173-180C
FACILITY PERSONNEL OIL-HANDLING TRAINING AND CERTIFICATION

173-180C-010 Purpose. [Statutory Authority: RCW 90.56.220. 93-01-089 (Order 91-64), § 173-180C-010, filed 12/16/92, effective 1/16/93.] Repealed by 07-22-118 (Order 07-13), filed 11/7/07, effective 12/8/07. Statutory Authority: Chapters 90.56, 88.46, 90.48 RCW.

173-180C-020 Authority. [Statutory Authority: RCW 90.56.220. 93-01-089 (Order 91-64), § 173-180C-020, filed 12/16/92, effective 1/16/93.] Repealed by 07-22-118 (Order 07-13), filed 11/7/07, effective 12/8/07. Statutory Authority: Chapters 90.56, 88.46, 90.48 RCW.

173-180C-030 Definitions. [Statutory Authority: RCW 90.56.220. 93-01-089 (Order 91-64), § 173-180C-030, filed 12/16/92, effective 1/16/93.] Repealed by 07-22-118 (Order 07-13), filed 11/7/07, effective 12/8/07. Statutory Authority: Chapters 90.56, 88.46, 90.48 RCW.

173-180C-040 Applicability. [Statutory Authority: RCW 90.56.220. 93-01-089 (Order 91-64), § 173-180C-040, filed 12/16/92, effective 1/16/93.] Repealed by 07-22-118 (Order 07-13), filed 11/7/07, effective 12/8/07. Statutory Authority: Chapters 90.56, 88.46, 90.48 RCW.

173-180C-050 Training requirements. [Statutory Authority: RCW 90.56.220. 93-01-089 (Order 91-64), § 173-180C-050, filed 12/16/92, effective 1/16/93.] Repealed by 07-22-118 (Order 07-13), filed 11/7/07, effective 12/8/07. Statutory Authority: Chapters 90.56, 88.46, 90.48 RCW.

173-180C-060 Certification program. [Statutory Authority: RCW 90.56.220. 93-01-089 (Order 91-64), § 173-180C-060, filed 12/16/92, effective 1/16/93.] Repealed by 07-22-118 (Order 07-13), filed 11/7/07, effective 12/8/07. Statutory Authority: Chapters 90.56, 88.46, 90.48 RCW.

173-180C-070 Minimum criteria for certification programs. [Statutory Authority: RCW 90.56.220. 93-01-089 (Order 91-64), § 173-180C-070, filed 12/16/92, effective 1/16/93.] Repealed by 07-22-118 (Order 07-13), filed 11/7/07, effective 12/8/07. Statutory Authority: Chapters 90.56, 88.46, 90.48 RCW.

173-180C-080 Program approval. [Statutory Authority: RCW 90.56.220. 93-01-089 (Order 91-64), § 173-180C-080, filed 12/16/92, effective 1/16/93.] Repealed by 07-22-118 (Order 07-13), filed 11/7/07, effective 12/8/07. Statutory Authority: Chapters 90.56, 88.46, 90.48 RCW.

173-180C-090 Inspections. [Statutory Authority: RCW 90.56.220. 93-01-089 (Order 91-64), § 173-180C-090, filed 12/16/92, effective 1/16/93.] Repealed by 07-22-118 (Order 07-13), filed 11/7/07, effective 12/8/07. Statutory Authority: Chapters 90.56, 88.46, 90.48 RCW.

173-180C-095 Noncompliance with requirements. [Statutory Authority: RCW 90.56.220. 93-01-089 (Order 91-64), § 173-180C-095, filed 12/16/92, effective 1/16/93.] Repealed by 07-22-118 (Order 07-13), filed 11/7/07, effective 12/8/07. Statutory Authority: Chapters 90.56, 88.46, 90.48 RCW.

173-180C-098 Severability. [Statutory Authority: RCW 90.56.220. 93-01-089 (Order 91-64), § 173-180C-098, filed 12/16/92, effective 1/16/93.] Repealed by 07-22-118 (Order 07-13), filed 11/7/07, effective 12/8/07. Statutory Authority: Chapters 90.56, 88.46, 90.48 RCW.

Chapter 173-180D
FACILITY OIL SPILL PREVENTION PLAN STANDARDS

173-180D-010 Purpose. [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.] Repealed by 07-22-118 (Order 07-13), filed 11/7/07, effective 12/8/07. Statutory Authority: Chapters 90.56, 88.46, 90.48 RCW.

173-180D-020 Authority. [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.] Repealed by 07-22-118 (Order 07-13), filed 11/7/07, effective 12/8/07. Statutory Authority: Chapters 90.56, 88.46, 90.48 RCW.

173-180D-030 Definitions. [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.] Repealed by 07-22-118 (Order 07-13), filed 11/7/07, effective 12/8/07. Statutory Authority: Chapters 90.56, 88.46, 90.48 RCW.

173-180D-040 Applicability. [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.] Repealed by 07-22-118 (Order 07-13), filed 11/7/07, effective 12/8/07. Statutory Authority: Chapters 90.56, 88.46, 90.48 RCW.

173-180D-050 Plan preparation. [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.] Repealed by 07-22-118 (Order 07-13), filed 11/7/07, effective 12/8/07. Statutory Authority: Chapters 90.56, 88.46, 90.48 RCW.

173-180D-055 Plan format requirements. [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.] Repealed by 07-22-118 (Order 07-13), filed 11/7/07, effective 12/8/07. Statutory Authority: Chapters 90.56, 88.46, 90.48 RCW.

173-180D-060 Plan content requirements. [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.] Repealed by 07-22-118 (Order 07-13), filed 11/7/07, effective 12/8/07. Statutory Authority: Chapters 90.56, 88.46, 90.48 RCW.

Chapter 173-181
FACILITY CONTINGENCY PLAN AND RESPONSE CONTRACTOR STANDARDS

Chapter 173-18 WAC

SHORELINE MANAGEMENT ACT—STREAMS AND RIVERS CONSTITUTING SHORELINES OF THE STATE

WAC

WAC 173-18-040 Streams and rivers. The following provisions of this chapter delimit the streams and rivers which constitute shorelines of the state as follows:

(1) Streams which constitute shorelines.

(a) Western Washington. 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. 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. Any rivers west of the crest of the Cascade range downstream of a point where the mean annual flow is measured at one thousand cubic feet per second or more. Provided, That the river falls at said point within the jurisdiction of chapter 90.58 RCW.

(b) Eastern Washington. Either of the following points on 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.

(3) Until superseded as provided in WAC 173-18-044, rivers constituting shorelines of the state are listed in WAC 173-18-050 through 173-18-430. Other data related to these lists.

(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.

[Statutory Authority: RCW 90.58.030 (3)(e), 90.58.045, 90.58.065, 90.58.-140(9), 90.58.143, 90.58.147, 90.58.200, 90.58.355, 90.58.390, 90.58.515, 43.21K.080, 71.09.250, 71.09.342, 77.55.181, 89.08.460, chapters 70.105D, 80.50 RCW. 07-02-086 (Order 05-12), § 173-18-040, filed 1/2/07, effective 2/2/07; 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 and update of designations. Each local government master program shall include a list of streams constituting shorelines of the state within the jurisdiction of the master program that complies with the requirements of RCW 90.58.030 (2)(d). When such master program is approved by the department, subsequent to the effective date of this provision, the list within the master program shall be the official list for that jurisdiction and shall supersede the list contained herein.

[Statutory Authority: RCW 90.58.030 (3)(e), 90.58.045, 90.58.065, 90.58.-140(9), 90.58.143, 90.58.147, 90.58.200, 90.58.355, 90.58.390, 90.58.515, 43.21K.080, 71.09.250, 71.09.342, 77.55.181, 89.08.460, chapters 70.105D, 80.50 RCW. 07-02-086 (Order 05-12), § 173-18-044, filed 1/2/07, effective 2/2/07. 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 or a shoreline master program approved under WAC 173-18-044, 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, except that the local government must amend the local master program to reflect the new designation within three years of the discovery of the discrepancy.

[Statutory Authority: RCW 90.58.030 (3)(e), 90.58.045, 90.58.065, 90.58.-140(9), 90.58.143, 90.58.147, 90.58.200, 90.58.355, 90.58.390, 90.58.515, 43.21K.080, 71.09.250, 71.09.342, 77.55.181, 89.08.460, chapters 70.105D, 80.50 RCW. 07-02-086 (Order 05-12), § 173-18-046, filed 1/2/07, effective 2/2/07. Statutory Authority: RCW 90.58.120 and 90.58.200. 80-08-052 (Order DE 80-20), § 173-18-046, filed 6/30/80.]

Chapter 173-20 WAC

SHORELINE MANAGEMENT ACT—LAKES CONSTITUTING SHORELINES OF THE STATE

WAC

WAC 173-20-040 List of lakes coming under purview of chapter 90.58 RCW until superseded. Volumes I and II of the book *Lakes of Washington* by Ernest E. Wolcott and updated information from various sources were used as reference material for the listings in WAC 173-20-050 through 173-20-810. These listings are in effect until superseded by an approved shoreline master program as described in WAC 173-20-044.

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.

[Statutory Authority: RCW 90.58.030 (3)(e), 90.58.045, 90.58.065, 90.58.-140(9), 90.58.143, 90.58.147, 90.58.200, 90.58.355, 90.58.390, 90.58.515, 43.21K.080, 71.09.250, 71.09.342, 77.55.181, 89.08.460, chapters 70.105D, 80.50 RCW. 07-02-086 (Order 05-12), § 173-20-040, filed 1/2/07, effective 2/2/07; 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 and update of designations. Each local government master program shall include a list of lakes constituting shorelines of the state within the jurisdiction of the master program that complies with the requirements of RCW 90.58.030 (2)(d). When such master program is approved by the department subsequent to the effective date of this provision, the list within the master program shall be the official list for that jurisdiction and shall supersede the list contained herein.

[Statutory Authority: RCW 90.58.030 (3)(e), 90.58.045, 90.58.065, 90.58.-140(9), 90.58.143, 90.58.147, 90.58.200, 90.58.355, 90.58.390, 90.58.515, 43.21K.080, 71.09.250, 71.09.342, 77.55.181, 89.08.460, chapters 70.105D, 80.50 RCW. 07-02-086 (Order 05-12), § 173-20-044, filed 1/2/07, effective 2/2/07. 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 or a shoreline master program approved under WAC 173-20-044, 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, except that the local government must amend the local master program to reflect the new designation within three years of the discovery of the discrepancy.

[Statutory Authority: RCW 90.58.030 (3)(e), 90.58.045, 90.58.065, 90.58.140(9), 90.58.143, 90.58.147, 90.58.200, 90.58.355, 90.58.390, 90.58.515, 43.21K.080, 71.09.250, 71.09.342, 77.55.181, 89.08.460, chapters 70.105D, 80.50 RCW. 07-02-086 (Order 05-12), § 173-20-046, filed 1/2/07, effective 2/2/07. 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 173-20-640 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-R6E	1-SE1/4	Storm Lk.	78.1	R
(14)	T28N-R6E	2-A	Flowing Lk.	134.8	R
(15)	T28N-R6E	2-C/D	Panther Lk.	46.7	R
(16)	T28N-R6E	7-NW1/4	Blackmans Lk.	60.1	R
(17)	T28N-R6E	24-A	Chain Lk.	22.8	R
(18)	T28N-R7E	12-J	Woods Lk.	20.5	R
(19)	T28N-R7E	16-A	Cochran Lk.	33.6	R
(20)	T28N-R8E	6-G	Chaplain Lk. (Res.)	443.7	PS
(21)	T28N-R8E	22-G/H	Kellogg Lk.	20.2	R
(22)	T28N-R9E	20-NE1/4	Wallace Lk.	55.3	R
(23)	T28N-R10E	5-G/H	Boulder Lk.	21.7	R
(24)	T28N-R11E	1-W1/2	Blanca Lk.	179.0	R
(25)	T29N-R7E	15-NE1/4	Purdy Creek Ponds	20.0	R
(26)	T29N-R7E	27-N/P	Hughes Lk.	20.2	R
(27)	T29N-R7E	28-E	Roesiger Lk.	352.2	R
(28)	T29N-R8E	21-D	Echo Lk.	24.6	R
(29)	T29N-R9E	9-M/N	East Boardman Lk.	24.7	R
(30)	T29N-R9E	36-J/R	Greider Lks. Upper	58.4	R
(31)	T29N-R10E	4	Copper Lk.	60.8	R
(32)	T30N-R6E	31-C/D	Cassidy Lk.	124.6	R
(33)	T30N-R6E	36-E1/2	Bosworth Lk.	95.4	R
(34)	T31N-R4E	18-SE1/4	Martha Lk.	58.4	R
(35)	T31N-R4E	20-L/P	Howard Lk.	27.1	R
(36)	T31N-R4E	23-L	Ki Lk.	97.4	R
(37)	T31N-R4E	33-G	Goodwin Lk.	546.8	R
(38)	T31N-R4E	33-P	Shoecraft Lk.	136.8	R
(39)	T31N-R4E	34-H	Crabapple Lk.	36.3	R
(40)	T31N-R4E	35-A/H	Loma Lk.	21.1	R
(41)	T32N-R4E	26-K/L	Sunday Lk.	38.7	R
(42)	T32N-R5E	26-SE1/4	Armstrong Lk.	30.7	R
(43)	T32N-R5E	27-F/G	Bryant Lk.	20.2	R
(44)	T32N-R6E	26-C	Little Lk.	23.4	R
(45)	T32N-R7E	19-H/J	Riley Lk.	30.0	R
(46)	T32N-R10E	28	Evangeline Lk.	25.0	

[Statutory Authority: RCW 90.58.030 (3)(e), 90.58.045, 90.58.065, 90.58.-140(9), 90.58.143, 90.58.147, 90.58.200, 90.58.355, 90.58.390, 90.58.515, 43.21K.080, 71.09.250, 71.09.342, 77.55.181, 89.08.460, chapters 70.105D, 80.50 RCW. 07-02-086 (Order 05-12), § 173-20-640, filed 1/2/07, effective 2/2/07. 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.]

Chapter 173-22 WAC

ADOPTION OF DESIGNATIONS OF SHORELANDS AND WETLANDS ASSOCIATED WITH SHORELINES OF THE STATE

WAC

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 flood plain 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" has the meaning provided in RCW 90.58.030;

(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 flood plain 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 minimum, 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 90.58.030 (3)(e), 90.58.045, 90.58.065, 90.58.-140(9), 90.58.143, 90.58.147, 90.58.200, 90.58.355, 90.58.390, 90.58.515, 43.21K.080, 71.09.250, 71.09.342, 77.55.181, 89.08.460, chapters 70.105D, 80.50 RCW. 07-02-086 (Order 05-12), § 173-22-030, filed 1/2/07, effective 2/2/07. 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 173-22-040 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 flood plains 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 flood plain within the associated shorelands. Designation of this shoreland area shall be in accordance with chapter 173-26 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 flood plain; or hydraulic continuity; and

(d) Those lands within a river delta flood plain 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 90.58.030 (3)(e), 90.58.045, 90.58.065, 90.58.140(9), 90.58.143, 90.58.147, 90.58.200, 90.58.355, 90.58.390, 90.58.515, 43.21K.080, 71.09.250, 71.09.342, 77.55.181, 89.08.460, chapters 70.105D, 80.50 RCW. 07-02-086 (Order 05-12), § 173-22-040, filed 1/2/07, effective 2/2/07. 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 and update of designations. Each local government master program shall include a map of shorelands constituting shorelines of the state within the jurisdiction of the master program that complies with the requirements of RCW 90.58.030 (2)(d). When such master program is approved by the department subsequent to the effective date of this provision, the list within the master program shall be the official list for that jurisdiction and shall supersede the list contained herein.

[Statutory Authority: RCW 90.58.030 (3)(e), 90.58.045, 90.58.065, 90.58.140(9), 90.58.143, 90.58.147, 90.58.200, 90.58.355, 90.58.390, 90.58.515, 43.21K.080, 71.09.250, 71.09.342, 77.55.181, 89.08.460, chapters 70.105D, 80.50 RCW. 07-02-086 (Order 05-12), § 173-22-050, filed 1/2/07, effective 2/2/07. 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 173-22-055 Conflicts between designations and criteria. In the event that any of the shoreland designations shown on the maps adopted in WAC 173-22-060 or a shoreline master program approved under WAC 173-22-050, conflict with the criteria set forth in this chapter the criteria shall control. The boundary of the designated shoreland areas shall be governed by the criteria set forth in WAC 173-22-040 except that the local government must amend the local master program to reflect the new designation within three years of the discovery of the discrepancy.

[Statutory Authority: RCW 90.58.030 (3)(e), 90.58.045, 90.58.065, 90.58.140(9), 90.58.143, 90.58.147, 90.58.200, 90.58.355, 90.58.390, 90.58.515, 43.21K.080, 71.09.250, 71.09.342, 77.55.181, 89.08.460, chapters 70.105D, 80.50 RCW. 07-02-086 (Order 05-12), § 173-22-055, filed 1/2/07, effective 2/2/07. 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 until superceded. 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 shoreland areas. Shoreland area designations are applied under the criteria contained in WAC 173-22-040. Due to the bulk of the maps designating the shoreland 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 Lacey, 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. These maps are in effect until superseded by an approved shoreline master program as described in WAC 173-22-050.

[Statutory Authority: RCW 90.58.030 (3)(e), 90.58.045, 90.58.065, 90.58.140(9), 90.58.143, 90.58.147, 90.58.200, 90.58.355, 90.58.390, 90.58.515, 43.21K.080, 71.09.250, 71.09.342, 77.55.181, 89.08.460, chapters 70.105D, 80.50 RCW. 07-02-086 (Order 05-12), § 173-22-060, filed 1/2/07, effective 2/2/07. 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.]

Chapter 173-27 WAC
SHORELINE MANAGEMENT PERMIT AND ENFORCEMENT PROCEDURES

WAC

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 five thousand dollars, if such development does not materially interfere with the normal public use of the water or shorelines of the state. The dollar threshold established in this subsection must be adjusted for inflation by the office of financial management every five years, beginning July 1, 2007, based upon changes in the consumer price index during that time period. "Consumer price index" means, for any calendar year, that year's annual average consumer price index, Seattle, Washington area, for urban wage earners and clerical workers, all items, compiled by the Bureau of Labor and Statistics, United States Department of Labor. The office of financial management must calculate the new dollar threshold and transmit it to the office of the code reviser for publication in the *Washington State Register* at least one month before the new dollar threshold is to take effect. 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 waterward 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 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, other than requirements imposed pursuant to chapter 90.58 RCW. "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 owner, lessee, or contract purchaser of 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 September 8, 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 that is designed 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;

(ii) The project has received hydraulic project approval by the department of fish and wildlife pursuant to chapter 77.55 RCW; and

(iii) The local government has determined that the project is substantially 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.

Fish habitat enhancement projects that conform to the provisions of RCW 77.55.181 are determined to be consistent with local shoreline master programs, as follows:

(A) In order to receive the permit review and approval process created in this section, a fish habitat enhancement project must meet the criteria under (p)(iii)(A)(I) and (II) of this subsection:

(I) A fish habitat enhancement project must be a project to accomplish one or more of the following tasks:

• Elimination of human-made fish passage barriers, including culvert repair and replacement;

• Restoration of an eroded or unstable streambank employing the principle 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

• Placement of woody debris or other instream structures that benefit naturally reproducing fish stocks.

The department of fish and wildlife shall develop size or scale threshold tests to determine if projects accomplishing any of these tasks should be evaluated under the process created in this section or under other project review and approval processes. A project proposal shall not be reviewed under the process created in this section if the department determines that the scale of the project raises concerns regarding public health and safety; and

(II) A fish habitat enhancement project must be approved in one of the following ways:

• By the department of fish and wildlife pursuant to chapter 77.95 or 77.100 RCW;

• By the sponsor of a watershed restoration plan as provided in chapter 89.08 RCW;

• By the department as a department of fish and wildlife-sponsored fish habitat enhancement or restoration project;

• Through the review and approval process for the jobs for the environment program;

• Through the review and approval process for conservation district-sponsored projects, where the project complies with design standards established by the conservation commission through interagency agreement with the United States Fish and Wildlife Service and the natural resource conservation service;

• Through a formal grant program established by the legislature or the department of fish and wildlife for fish habitat enhancement or restoration; and

• Through other formal review and approval processes established by the legislature.

(B) Fish habitat enhancement projects meeting the criteria of (p)(iii)(A) of this subsection are expected to result in beneficial impacts to the environment. Decisions pertaining to fish habitat enhancement projects meeting the criteria of (p)(iii)(A) of this subsection and being reviewed and approved according to the provisions of this section are not subject to the requirements of RCW 43.21C.030 (2)(c).

(C)(I) A hydraulic project approval permit is required for projects that meet the criteria of (p)(iii)(A) of this subsection and are being reviewed and approved under this section. An applicant shall use a joint aquatic resource permit application form developed by the office of regulatory assistance to apply for approval under this chapter. On the same day, the applicant shall provide copies of the completed application form to the department of fish and wildlife and to each appropriate local government. Local governments shall accept the application as notice of the proposed project. The department of fish and wildlife shall provide a fifteen-day comment period during which it will receive comments regarding environmental impacts. Within forty-five days, the department shall either issue a permit, with or without conditions, deny approval, or make a determination that the review and approval process created by this section is not appropriate for the proposed project. The department shall base this determination on identification during the comment period of adverse impacts that cannot be mitigated by the conditioning of a permit. If the department determines that the review and approval process created by this section is not appropriate for the proposed project, the department shall notify the applicant and the appropriate local governments of its determination. The applicant may reapply for approval of the project under other review and approval processes.

(II) Any person aggrieved by the approval, denial, conditioning, or modification of a permit under this section may formally appeal the decision to the hydraulic appeals board pursuant to the provisions of this chapter.

(D) No local government may require permits or charge fees for fish habitat enhancement projects that meet the criteria of (p)(iii)(A) of this subsection and that are reviewed and approved according to the provisions of this section.

[Statutory Authority: RCW 90.58.030 (3)(e), 90.58.045, 90.58.065, 90.58.-140(9), 90.58.143, 90.58.147, 90.58.200, 90.58.355, 90.58.390, 90.58.515, 43.21K.080, 71.09.250, 71.09.342, 77.55.181, 89.08.460, chapters 70.105D, 80.50 RCW. 07-02-086 (Order 05-12), § 173-27-040, filed 1/2/07, effective 2/2/07. 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 173-27-045 Developments not subject to the Shoreline Management Act. Certain developments are not required to meet requirements of the Shoreline Management Act as follows:

(1) Pursuant to RCW 90.58.390, certain secure community transition facilities are not subject to the Shoreline Management Act. An emergency has been caused by the need to expeditiously site facilities to house sexually violent predators who have been committed under chapter 71.09 RCW. To meet this emergency, secure community transition facilities sited pursuant to the preemption provisions of RCW 71.09.342 and secure facilities sited pursuant to the preemption provisions of RCW 71.09.250 are not subject to the provisions of this chapter.

This section expires June 30, 2009.

(2) Pursuant to RCW 90.58.045 regarding environmental excellence program agreements, notwithstanding any other provision of law, any legal requirement under the Shoreline Management Act, including any standard, limitation, rule, or order is superseded and replaced in accordance with the terms and provisions of an environmental excellence program agreement, entered into under chapter 43.21K RCW.

(3) Pursuant to RCW 90.58.355 regarding hazardous substance remedial actions, the procedural requirements of the Shoreline Management Act shall not apply to any person conducting a remedial action at a facility pursuant to a consent decree, order, or agreed order 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 of ecology shall ensure compliance with the substantive requirements of chapter 90.58 RCW, chapter 173-26 WAC and the local master program through the consent decree, order, or agreed order issued pursuant to chapter 70.105D RCW, or during the department-conducted remedial action, through the procedures developed by the department pursuant to RCW 70.105D.090.

(4) The holder of a certification from the governor pursuant to chapter 80.50 RCW shall not be required to obtain a permit under chapter 90.58 RCW.

[Statutory Authority: RCW 90.58.030 (3)(e), 90.58.045, 90.58.065, 90.58.-140(9), 90.58.143, 90.58.147, 90.58.200, 90.58.355, 90.58.390, 90.58.515, 43.21K.080, 71.09.250, 71.09.342, 77.55.181, 89.08.460, chapters 70.105D, 80.50 RCW. 07-02-086 (Order 05-12), § 173-27-045, filed 1/2/07, effective 2/2/07.]

WAC 173-27-060 Applicability of chapter 90.58 RCW to federal lands and agencies. (1) Direct federal agency activities in or affecting Washington's coastal zone shall be consistent to the maximum extent practicable with the enforceable policies of the most recent federally approved Washington state coastal zone management program pursuant to the Federal Coastal Zone Management Act, 16 U.S.C. 1451 et seq. (CZMA) and federal regulations adopted pursuant thereto.

Washington's coastal zone, as established in the state's approved coastal zone management program, includes the following coastal counties: Whatcom, Skagit, San Juan, Island, Snohomish, King, Pierce, Thurston, Mason, Kitsap, Jefferson, Clallam, Grays Harbor, Pacific and Wahkiakum.

The Shoreline Management Act is incorporated into the Washington state coastal zone management program and, thereby, those direct federal agency activities affecting the uses or resources subject to the act must be consistent to the maximum extent practicable with the enforceable provisions of the act, regulations adopted pursuant to the act and the local master program.

(a) When the department receives a consistency determination for an activity proposed by the federal government, it shall request that local government review the proposal and provide the department with its views regarding the consistency of the activity or development project with the enforceable policies of the local master program.

(b) The CZMA federal consistency decision-making process for federal agency activities is prescribed in the Coastal Zone Management Act (16 U.S.C. 1456 (c)(1) and (2), in federal regulations at 15 C.F.R. part 930, subpart C, and in Washington's most recent federally approved CZM program document.

(2) Federal agency activities may be required by other federal laws to meet the permitting requirements of chapter 90.58 RCW.

(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 90.58.030 (3)(e), 90.58.045, 90.58.065, 90.58.-140(9), 90.58.143, 90.58.147, 90.58.200, 90.58.355, 90.58.390, 90.58.515, 43.21K.080, 71.09.250, 71.09.342, 77.55.181, 89.08.460, chapters 70.105D, 80.50 RCW. 07-02-086 (Order 05-12), § 173-27-060, filed 1/2/07, effective 2/2/07. 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, including changes in shoreline jurisdiction as described in subsection (2) of this section, 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) The effective date of the act is determined by one of the following procedures:

(a) 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.

(b) When a change in the area subject to the jurisdiction of the act occurs as a result of an updated shoreline master program that supersedes the jurisdiction lists in chapter 173-18, 173-20 and 173-22 WAC, the effective date of the act shall be the date the department approves the updated master program.

[Statutory Authority: RCW 90.58.030 (3)(e), 90.58.045, 90.58.065, 90.58.-140(9), 90.58.143, 90.58.147, 90.58.200, 90.58.355, 90.58.390, 90.58.515, 43.21K.080, 71.09.250, 71.09.342, 77.55.181, 89.08.460, chapters 70.105D, 80.50 RCW. 07-02-086 (Order 05-12), § 173-27-070, filed 1/2/07, effective 2/2/07. 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 173-27-090 Time requirements of permit. (1) The time requirements of this section shall apply to all substantial development permits and to any development authorized pursuant to a variance or conditional use permit authorized by this chapter. 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 this chapter, local government may adopt different time limits from those set forth in subsections (2) and (3) of this section as a part of action on a substantial development permit.

(2) Construction activities shall be commenced or, where no construction activities are involved, the use or activity shall be commenced within two years of the effective date of a substantial development permit. However, 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 on the substantial development permit and to the department.

(3) Authorization to conduct development activities shall terminate five years after the effective date of a substantial development permit. However, 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 to the department.

(4) The effective date of a substantial development permit shall be the date of filing as provided in RCW 90.58.140 (6). The permit time periods in subsections (2) and (3) of this section do not include the time during which a use or activity was not actually pursued due to the pendency of administrative appeals or legal actions or due to the need to obtain any other government permits and approvals for the development that authorize the development to proceed, including all reasonably related administrative or legal actions on any such permits or approvals.

(5) Revisions to permits under WAC 173-27-100 may be authorized after original permit authorization has expired: 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 RCW 90.58.143 as amended shall require a new permit application.

[Statutory Authority: RCW 90.58.030 (3)(e), 90.58.045, 90.58.065, 90.58.-140(9), 90.58.143, 90.58.147, 90.58.200, 90.58.355, 90.58.390, 90.58.515, 43.21K.080, 71.09.250, 71.09.342, 77.55.181, 89.08.460, chapters 70.105D, 80.50 RCW. 07-02-086 (Order 05-12), § 173-27-090, filed 1/2/07, effective 2/2/07. 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 RCW 90.58.143. 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 90.58.030 (3)(e), 90.58.045, 90.58.065, 90.58.-140(9), 90.58.143, 90.58.147, 90.58.200, 90.58.355, 90.58.390, 90.58.515, 43.21K.080, 71.09.250, 71.09.342, 77.55.181, 89.08.460, chapters 70.105D, 80.50 RCW. 07-02-086 (Order 05-12), § 173-27-100, filed 1/2/07, effective 2/2/07. 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 173-27-130 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. Ecology will not act on conditional use permit or variance submittal 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 is the date of actual receipt by the department of a local government's final decision on the permit.

(7) "Date of filing" involving approval or denial of a variance or conditional use 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) Any decision on an application for a permit under the authority of this section, whether it is an approval or a denial, shall, concurrently with the transmittal of the ruling to the applicant, be filed with the department and the attorney general.

(10) 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 by the local government to 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 90.58.030 (3)(e), 90.58.045, 90.58.065, 90.58.140(9), 90.58.143, 90.58.147, 90.58.200, 90.58.355, 90.58.390, 90.58.515, 43.21K.080, 71.09.250, 71.09.342, 77.55.181, 89.08.460, chapters 70.105D, 80.50 RCW. 07-02-086 (Order 05-12), § 173-27-130, filed 1/2/07, effective 2/2/07. 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.]

Chapter 173-95A WAC

USES AND LIMITATIONS OF CENTENNIAL CLEAN WATER FUNDS

WAC

DISPOSITION OF SECTIONS FORMERLY CODIFIED IN THIS CHAPTER

173-95A-030 How and under what conditions, can money from the centennial fund be used? [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.] Repealed by 07-14-096 (Order 05-16), filed 6/29/07, effective 7/30/07. Statutory Authority: RCW 90.48.035.

173-95A-040 Where can I obtain details about the application and review process for centennial funds? [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.] Repealed by 07-14-096 (Order 05-16), filed 6/29/07, effective 7/30/07. Statutory Authority: RCW 90.48.035.

173-95A-050 How can a local area have a role in determining funding priorities? [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.] Repealed by 07-14-096 (Order 05-16), filed 6/29/07, effective 7/30/07. Statutory Authority: RCW 90.48.035.

173-95A-060 What are the limitations on the use of funds? [Statutory Authority: Chapter 70.146 RCW. 01-01-042 (Order 00-10), § 173-95A-060, filed 12/8/00, effective 1/8/01.] Repealed by 07-14-096 (Order 05-16), filed 6/29/07, effective 7/30/07. Statutory Authority: RCW 90.48.035.

173-95A-070 How does the Growth Management Act impact the use of funds? [Statutory Authority: Chapter 70.146 RCW. 01-01-042 (Order 00-10), § 173-95A-070, filed 12/8/00, effective 1/8/01.] Repealed by 07-14-096 (Order 05-16), filed 6/29/07, effective 7/30/07. Statutory Authority: RCW 90.48.035.

173-95A-080 What is the "step process" for planning facilities and activities projects? [Statutory Authority: Chapter 70.146 RCW. 01-01-042 (Order 00-10), § 173-95A-080, filed 12/8/00, effective 1/8/01.] Repealed by 07-14-096 (Order 05-16), filed 6/29/07, effective 7/30/07. Statutory Authority: RCW 90.48.035.

173-95A-090 What other laws, regulations or requirements must recipients comply with? [Statutory Authority: Chapter 70.146 RCW. 01-01-042 (Order 00-10), § 173-95A-090, filed 12/8/00, effective 1/8/01.] Repealed by 07-14-096 (Order 05-16), filed 6/29/07, effective 7/30/07. Statutory Authority: RCW 90.48.035.

WAC 173-95A-010 Purpose. (1) The purpose of this chapter is to set forth requirements for the department of ecology's administration of the centennial clean water program, as authorized by chapter 70.146 RCW, Water pollution control facilities financing. This fund provides financial assistance to public bodies for statewide, high-priority water quality projects in the form of grants and loans through appropriation by the Washington state legislature.

(2) The centennial program may be used for the following purposes:

(a) To make grants and loans to finance the planning, design, and/or construction of water pollution control facilities; and

(b) To make grants and loans for nonpoint source pollution control management programs, including planning and implementing elements of the most current version of the "*Washington's Water Quality Management Plan to Control Nonpoint Sources of Pollution*," (ecology publication #05-10-027).

[Statutory Authority: RCW 90.48.035. 07-14-096 (Order 05-16), § 173-95A-010, filed 6/29/07, effective 7/30/07. 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-015 Integrated funding approach. (1) Where possible, the Washington state department of ecology combines the management of the centennial program with other funding programs, such as the Washington state water pollution control revolving fund, and the Clean Water Act section 319 nonpoint source fund.

(2) The integrated funding process includes a combined funding cycle, program guidelines, funding offer and applicant list, and statewide funding workshops.

[Statutory Authority: RCW 90.48.035. 07-14-096 (Order 05-16), § 173-95A-015, filed 6/29/07, effective 7/30/07.]

WAC 173-95A-020 Definitions. For the purposes of this chapter:

(1) **Activities** see water pollution control activities.

(2) **Applicant** means a public body that has applied for funding.

(3) **Best management practices** (BMP) means physical, structural, and/or managerial practices approved by the department that prevent or reduce pollutant discharges.

(4) **Cash match** means moneys used to match the state share of a grant.

(5) **Ceiling amount** means the highest level of financial assistance the department can provide to a recipient for an individual project.

(6) **Centennial** means the centennial clean water program.

(7) **Commercial, industrial, and institutional flows** mean the portion of the total flows to a facility that originate from commercial establishments, industrial facilities, or institutional sources such as schools, hospitals, and prisons.

(8) **Competitive funding** means moneys available for projects through a statewide evaluation process.

(9) **Completion date** or **expiration date** means the date indicated in the funding agreement in which all milestones and objectives associated with the goals of the project are met.

(10) **Concentrated animal feeding operation** (CAFO) means:

(a) 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

(b) An operation that is under a department administrative order, notice of violation, a National Pollution Discharge Elimination System permit; or

(c) An operation that will be required to have a National Pollution Discharge Elimination System permit coverage in the near future; or

(d) An operation designated by the Environmental Protection Agency as polluting the waters of Washington state.

(11) **Conservation easement** means a recorded legal agreement between a landowner and a public body to allow or restrict certain activities and uses that may take place on his or her property.

(12) **Conservation plan** means a document that outlines how a project site will be managed using best management practices to avoid potential negative environmental impacts.

(13) **Construction** means to erect, install, expand, or improve water pollution control facilities or activities. Construction includes construction phase engineering and preparation of the operation and maintenance manual.

(14) **Cost-effective alternative** means the option selected in an approved facilities plan that meets the requirements of the project, recognizes environmental and other nonmonetary impacts, and offers the lowest cost over the life of the project (i.e., lowest present worth or equivalent annual value).

(15) Department means the Washington state department of ecology.

(16) **Design** means the preparation of the plans and specifications used for construction of water pollution control facilities or activities.

(17) **Director** means the director of the Washington state department of ecology or his or her authorized designee.

(18) **Draft offer and applicant list** means a catalog of all projects considered and proposed for funding based on an evaluation and the appropriations in the Washington state capital budget.

(19) **Easement** means a recorded legal agreement between a public body and a landowner that allows the public body to have access to the landowner's property at any time to inspect, maintain, or repair loan-or-grant-funded activities or facilities.

(20) **Effective date** means the date the loan or grant agreement is signed by the department's water quality program manager.

(21) **Eligible cost** means the portion of the facilities or activities project that can be funded.

(22) **Enforcement order** means an administrative requirement issued by the department under the authority of RCW 90.48.120 that directs a public body to complete a specified course of action within an explicit period to achieve compliance with the provisions of chapter 90.48 RCW.

(23) **Engineering report** means a document that includes an evaluation of engineering and other alternatives that meet the requirements in chapter 173-240 WAC, Submission of plans and reports for construction of wastewater facilities.

(24) **Environmental degradation** means the reduced capacity of the environment to meet social and ecological objectives and needs.

(25) **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.

(26) **Estimated construction cost** means the expected amount for labor, materials, equipment, and other related work necessary to construct the proposed project.

(27) **Existing need** means water pollution control facility's capacity reserved for all users, at the time of application, in order to meet the requirements of the water quality based effluent limitations in the associated National Pollution Discharge Elimination System or state waste discharge permit.

(28) **Existing residential need** means water pollution control facility's capacity reserved for the residential population, at the time of application, in order to meet the water quality based effluent limitations in the associated National Pollution Discharge Elimination System or state waste discharge permit.

(29) **Extended grant payments** means cash disbursements for eligible project costs made with equal annual payments as established in RCW 70.146.075.

(30) **Facilities** see water pollution control facility.

(31) **Facilities plan** means an engineering report that includes all the elements required by the state environmental review process (SERP), National Environmental Policy Act (NEPA) as appropriate, other federal statutes, and planning requirements under chapter 173-240 WAC, Submission of plans and reports for construction of wastewater facilities.

(32) **Final offer and applicant list** means a catalog of all projects considered and proposed for funding and those offered funding.

(33) **Force account** means loan or grant project work performed using labor, materials, or equipment of a public body.

(34) **Funding cycle** means the events related to the competitive process used to allocate moneys from the clean water state revolving fund, centennial clean water program, and the Clean Water Act section 319 nonpoint source fund for a state fiscal year.

(35) **Grant agreement** means a contractual arrangement between a public body and the department.

(36) **Indirect cost** means costs that benefit more than one activity of the recipient and not directly assigned to a particular project objective.

(37) **In-kind contributions** means the value of noncash contributions provided for a project.

(38) **Interlocal agreement** means a written arrangement between a grant recipient and another public body to provide eligible grant match contributions to a project. Interlocal agreements are subject to chapter 39.34 RCW, Interlocal Cooperation Act.

(39) **Interlocal costs** means the value of goods or services provided to a project by a public body under the terms of an interlocal agreement. Interlocal contributions satisfy cash matching requirements.

(40) **Infiltration and inflow** means water, other than wastewater, that enters a sewer system.

(41) **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 to an existing sewer system.

(42) **Landowner agreement** means a written arrangement between a public body and a landowner that allows the public body to have access to the property to inspect project-related components.

(43) **Loan agreement** means a contractual arrangement between a public body and the department that involves a disbursement of moneys that must be repaid.

(44) **Loan default** means failure to make a loan repayment to the department within sixty days after the payment was due.

(45) **Match** means the recipient share of eligible project costs.

(46) **Nonpoint source water pollution** means pollution that enters any waters from widespread water-based or land-use 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.

(47) **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.

(48) **Preliminary project priority list** means a catalog of all projects considered for funding based on the governor's budget and submitted to the Washington state legislature for its consideration during budget development.

(49) **Project** means a water quality improvement effort funded with a grant or loan.

(50) **Project completion** or **expiration** means the date indicated in the funding agreement in which all milestones and objectives associated with the goals are met.

(51) **Public body** means a state of Washington county, city or town, conservation district, other political subdivision, municipal corporation, quasi-municipal corporation, those Indian tribes recognized by the federal government, or institutions of higher education when the proposed project is not part of the school's statutory responsibility.

(52) **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.

(53) **Recipient** means a public body that has an effective loan or grant agreement with the department.

(54) **Riparian buffer** or **zone** means a swath of vegetation along a channel bank that provides protection from the erosive forces of water along the channel margins and external nonpoint sources of pollution.

(55) **Scope of work** means a detailed description of project tasks, milestones, and measurable objectives.

(56) **Service area population** means the number of people served in the area of the project.

(57) **Severe public health hazard** means a situation declared by the Washington state department of health in which the potential for illness exists, but illness is not occurring or imminent.

(58) **Sewer** means the pipe and related pump stations located on public property or on public rights of way and easements that convey wastewater from buildings.

(59) **Side sewer** means a sanitary sewer service extension from the point five feet outside the building foundation to the publicly owned collection sewer.

(60) **State environmental review process** (SERP) means the National Environmental Policy Act (NEPA)-like environmental review process adopted to comply with the requirements of the Environmental Protection Agency's Code of Regulations (40 CFR § 35.3140). SERP combines the State Environmental Policy Act (SEPA) review with additional elements to comply with federal requirements.

(61) **Total eligible project cost** means the sum of all expenses associated with a water quality project that are eligible for funding.

(62) **Total project cost** means the sum of all expenses associated with a water quality project.

(63) **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; 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.

(64) **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.

(65) **Water pollution control facility** 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. Facilities include all necessary equipment, utilities, structures, real property, and interests in and improvements on real property.

(66) **Water resource inventory area** (WRIA) means one of the watersheds in the state of Washington, each composed of the drainage areas of a stream or streams, as established in the Water Resources Management Act of 1971 (chapter 173-500 WAC).

[Statutory Authority: RCW 90.48.035. 07-14-096 (Order 05-16), § 173-95A-020, filed 6/29/07, effective 7/30/07. 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-100 Grant and loan eligible. Certain projects or project elements, including but not limited to the following may be eligible for centennial loan or grant assistance:

(1) **Aquatic plant control** when the water quality degradation is due to the presence of aquatic plants, and the source(s) of pollution can be addressed sufficiently to ensure that the pollution is eliminated;

(2) **BMP implementation** on private property:

(a) Best management practices that consist of new, innovative or alternative technology not yet demonstrated in the department's region in which it is proposed;

(b) Best management practices in the riparian buffer or zone, such as revegetation or fence construction and where a conservation easement or landowner agreement is granted by the landowner; and

(c) Other water quality best management practices that are evaluated and approved by the department on a case-by-case basis, and where a conservation easement or landowner agreement is granted by the landowner;

(3) **BMP implementation** on public property;

(4) **Computer equipment and software** specific to the funded project and preapproved by the department;

(5) **Diagnostic studies** to assess current water quality;

(6) **Education and outreach** efforts for the public;

(7) **Environmental checklists,** assessments, and impact statements necessary to satisfy requirements for the SEPA, the NEPA, and the SERP;

(8) **Equipment and tools** as identified in a grant or loan agreement;

(9) **Ground water protection activities** such as wellhead protection and critical aquifer recharge area protection;

(10) **Hardship assistance** for wastewater treatment facilities construction, storm water management, and on-site septic system repair and replacement, and construction elements of a design-build-operate project;

(11) **Implementation** of eligible projects identified in water quality plans;

(12) **Indirect costs** as defined in the most recently updated edition of *Administrative Requirements for Ecology Grants and Loans* (publication #91-18);

(13) **Lake implementation and planning activities** on lakes with public access;

(14) **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;

(15) **Light refreshments** for meetings when specified in the loan or grant agreement;

(16) **Monitoring BMP effectiveness;**

(17) **Monitoring equipment** used for water quality assessment;

(18) **Monitoring water quality;**

(19) **On-site septic systems:**

(a) **Development and administration of a local loan fund for on-site septic system repair and replacement** for residential and small commercial systems; and

(b) **On-site wastewater** system surveys;

(20) **Model ordinances** development and dissemination of model ordinances to prevent or reduce pollution from nonpoint sources;

(21) **Planning** comprehensive basin, watershed, and area-wide water quality development;

(22) **Riparian and wetlands habitat restoration** and enhancement, including revegetation;

(23) **Sales tax;**

(24) **Stream restoration** that meets recognized water quality standards;

(25) **Storm water** certain nonpermit-related planning activities, such as education and outreach, establishing a storm water utility, identifying and mapping of pollution sources, and department-approved erosion control;

(26) **Total maximum daily load study** development and implementation;

(27) **Training** to develop specific skills that are necessary to directly satisfy the scope of work. Training, conference registration, or annual meeting fees must be preapproved by the department;

(28) **Wastewater or storm water utility development;**

(29) **Wastewater or storm water utility rate** or development impact fee studies;

(30) **Water quality education** and stewardship programs; and

(31) **Wellhead protection.**

[Statutory Authority: RCW 90.48.035. 07-14-096 (Order 05-16), § 173-95A-100, filed 6/29/07, effective 7/30/07. 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 Loan only eligible. Certain projects or project elements, including but not limited to the following may be eligible for centennial loan assistance:

(1) **CAFOs,** for BMP implementation;

(2) **Facilities** for wastewater and storm water:

(a) **Planning:**

(i) **Comprehensive sewer planning,** including wastewater elements of capital facilities planning under the Growth Management Act;

(ii) **Facilities planning** for water pollution control facilities; and

(iii) **Storm water** planning for permitted facilities;

(b) **Design** preparation of plans and specifications for water pollution control facilities;

(c) **Construction** of:

(i) Combined sewer overflow abatement;

(ii) Side sewers or individual pump stations or other appurtenances on private residential property;

(iii) Sewers and side sewers on public property for infiltration and inflow correction projects, and to replace existing water pollution control facilities;

(iv) Facilities for the control, storage, treatment, conveyance, disposal, or recycling of storm water; and

(v) Water pollution control facility construction with reserve capacities to meet up to one hundred ten percent of existing residential needs;

(d) **Value engineering** for water pollution control facilities;

(e) **Design or construction** costs associated with design-build or design-build-operate contracts;

(3) **Land acquisition:**

(a) As an integral part of the treatment process (e.g., land application);

(b) For prevention of water pollution;

(c) For siting of water pollution control facilities, sewer rights of way, easements, and associated costs; or

(d) for wetland habitat preservation;

(4) **Legal expenses** will be determined on a case-by-case basis, such as development of local ordinances, use of a bond counsel, review of technical documents;

(5) **On-site septic systems:**

(a) **Local loan fund** program development and administration;

(b) **New sewer systems** to eliminate failing or failed on-site septic systems;

(6) **Spare parts** initial set of spare parts for equipment that is critical for a facility to operate in compliance with discharge permit requirements; and

(7) **Transferring ownership** of a small wastewater system to a public body.

[Statutory Authority: RCW 90.48.035. 07-14-096 (Order 05-16), § 173-95A-110, filed 6/29/07, effective 7/30/07. Statutory Authority: Chapter 70.146 RCW. 01-01-042 (Order 00-10), § 173-95A-110, filed 12/8/00, effective 1/8/01.]

WAC 173-95A-120 Projects ineligible for centennial program funding. While it is impossible to list every project or project element that is not eligible, some examples of ineligible projects include:

(1) **Abandonment** or demolition of existing structures;

(2) **Acts of nature** that alter the natural environment, thereby causing water quality problems;

(3) **Commercial, institutional** or **industrial** wastewater pretreatment;

(4) **Compensation** or damages for any claim or injury of any kind arising out of the project, including any personal injury, damage to any kind of real or personal property, or any kind of contractual damages, whether direct, indirect, or consequential;

(5) **Cost-plus-a-percentage-of-cost contracts** (also known as multiplier contracts), time and materials contracts, and percent-of-construction contracts in facilities projects;

(6) **Facilities** intended solely to control, transport, treat, dispose, or otherwise manage commercial, institutional, or industrial wastewater;

(7) **Fines and penalties** due to violations of or failure to comply with federal, state, or local laws;

(8) **Flood control,** projects or project elements intended solely for flood control;

(9) **Funding application preparation** for loans or grants;

(10) **Interest** on bonds, interim financing, and associated costs to finance projects;

(11) **Landscaping** for aesthetic reasons;

(12) **Legal expenses** associated with claims and litigation;

(13) **Lobbying** or expenses associated with lobbying;

(14) **Monitoring equipment** for sampling and analysis of commercial, institutional, or industrial discharges;

(15) **Office furniture** not included in the recipient's indirect rate;

(16) **Operating expenses** of local government, such as the salaries and expenses of a mayor, city council member, city attorney, etc.;

(17) **Operation and maintenance** costs;

(18) **Overtime** differential paid to employees of a public body to complete administrative or force account work;

(19) **Permit fees;**

(20) **Professional dues;**

(21) **Reclamation** of abandoned mines;

(22) **Refinance** of existing debt;

(23) **Rework costs** or previously funded objectives;

(24) **Solid or hazardous waste;**

(25) **Vehicle purchase** except for vehicles intended for the transportation of liquid or dewatered sludge or septage; and

(26) **Water quantity** or other water resource projects that solely address water quantity issues.

[Statutory Authority: RCW 90.48.035. 07-14-096 (Order 05-16), § 173-95A-120, filed 6/29/07, effective 7/30/07.]

WAC 173-95A-200 Centennial clean water program loan interest rates. The department bases loan recipient interest rates on the average market interest rate. The average market interest rate is 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 funding application cycle begins. See WAC 173-95A-400 for hardship interest rates.

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.

[Statutory Authority: RCW 90.48.035. 07-14-096 (Order 05-16), § 173-95A-200, filed 6/29/07, effective 7/30/07.]

WAC 173-95A-300 Application for funding. (1) To apply for funding the applicant must submit a completed application to the department. The department will provide the application on the agency web site.

(2) The applicant may be asked to provide the following project information:

(a) Basic information such as names of contacts, addresses, and other tracking information;

(b) Project summary;

(c) Project goals, objectives, and milestones;

(d) Overall water quality benefits;

(e) Public health benefits;

(f) Sources of pollution addressed;

(g) How the project will address state and federal mandates, elements in "Washington's water quality plan to control nonpoint sources of pollution," or other such plans;

(h) Performance measures and postproject assessment monitoring;

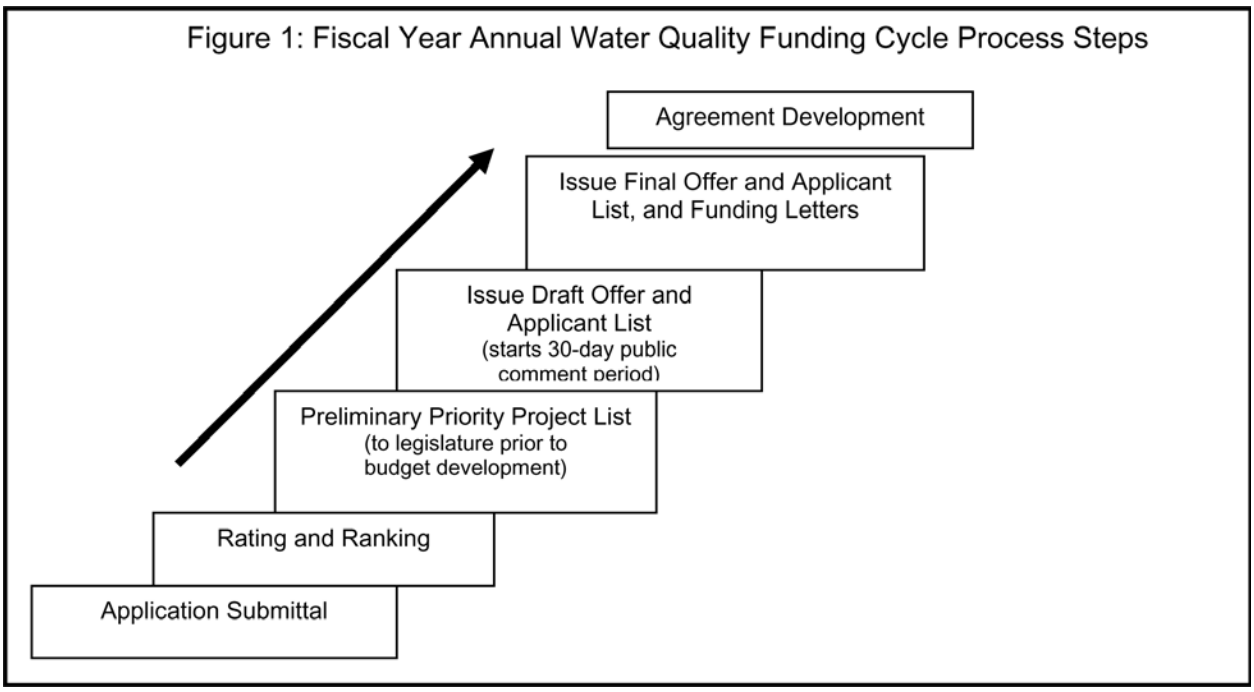
(i) Readiness to proceed, likelihood of success, and measures of success specific to the project;

(j) Local initiatives, commitments, or priorities related to the project; or

(k) Other information requested by the department.

[Statutory Authority: RCW 90.48.035. 07-14-096 (Order 05-16), § 173-95A-300, filed 6/29/07, effective 7/30/07.]

WAC 173-95A-310 Ecology's responsibilities. (1) A general funding cycle schedule is provided in figure 1.



(2) Ecology will provide the following services:

(a) Make available the application and applicable guidelines before the associated funding cycle begins;

(b) Conduct at least one application workshop in each of ecology's four regions;

(c) Conduct preapplication workshops to discuss regional level priorities if applicable;

(d) After the application deadline, complete an initial review of project proposals for funding eligibility;

(e) Request other agencies to provide evaluation assistance as needed;

(f) Rate and rank the applications using a consistent scoring system;

(g) Prepare a combined preliminary project priority list, after evaluation and scoring of all applications;

(h) Submit preliminary project priority list to the state legislature for budget consideration;

(i) Develop a combined draft offer and applicant list;

(j) Facilitate a public review and comment period for the combined draft offer and applicant list;

(k) Sponsor at least one public meeting to explain the combined draft offer and applicant list;

(l) Develop a combined "final offer and applicant list." Public comments collected during draft public review period will be incorporated and result in a responsiveness summary;

(m) Issue funding decision letters to all applicants; and

(n) Negotiate, develop, and finalize loan or grant agreements.

[Statutory Authority: RCW 90.48.035. 07-14-096 (Order 05-16), § 173-95A-310, filed 6/29/07, effective 7/30/07.]

WAC 173-95A-320 Final offer and applicant list. Loan and grant offers identified on the "final offer and applicant list" will be effective for up to one year from the publication date of the "final offer and applicant list." Loan and grant offers that do not result in a signed agreement are automatically terminated.

[Statutory Authority: RCW 90.48.035. 07-14-096 (Order 05-16), § 173-95A-320, filed 6/29/07, effective 7/30/07.]

WAC 173-95A-400 Wastewater treatment facilities construction. (1) There are three primary factors considered in determining hardship funding for the construction portion of a wastewater treatment facilities projects:

(a) Service area population;

(b) Existing residential need at the time of application; and

(c) Level of financial burden placed on the ratepayers.

(2) **Service area population.** Applicants serving an area of twenty-five thousand or less can request hardship-funding consideration by submitting a financial hardship analysis form, provided by the department, along with the grant and loan funding application. If the service area population is different from the population of the applicant, the applicant must show that the hardship assistance is solely used to benefit the population of the service area.

(3) **Existing residential need.** Water pollution control facilities construction costs that are associated with existing residential need plus ten percent at the time of application may be eligible for funding. Additional reserve capacity for growth is not eligible for grant funding.

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 reserve capacity for growth, the applicant may be eligible for six million six hundred thousand dollars in grant funding.

Residential need:	$6,000,000
Reserve capacity for growth (10% of $6M):	$600,000
Grant Eligible Amount	$6,600,000

(4) **Level of financial burden.**

(a) Financial burden for the sewer ratepayer is determined by calculating the residential sewer user fee as a percent of the median household income (MHI). The residential sewer user fee is calculated using:

(i) Estimated construction cost;

(ii) Projected future operation and maintenance costs for the total facility;

(iii) The applicant's current and future debt service on the project;

(iv) Other grants;

(v) Existing annual operation, maintenance, and equipment replacement costs;

(vi) The total number of households existing at the time of application that will be served by the project; and

(vii) The nonresidential share of the total annual costs;

(b) The sewer user fee as a percentage of the MHI is the basis for the department's grant and loan hardship-funding continuum (shown below in figure 2 and figure 3);

(c) The most recent available census data determines the median household income. This data is updated yearly based on inflation rates as measured by the Federal Bureau of Labor Statistics and published as the *Consumer Price Index*; and

(d) If median household income data are not available for a community or if the community disputes the data used by the department, the department may allow an applicant to conduct a scientific survey to determine the median household income.

(5) **Hardship grant ceiling amounts.** The department uses the grant hardship-funding continuum, shown in figure 2 below, to determine the percent of grant awarded. There is a funding ceiling of five million dollars per project.

For example:

When a grant applicant with a service area population of twenty-five thousand or less can demonstrate that its sewer user rates for the proposed project are between three and five percent of the median household income, the applicant may receive a grant of seventy-five percent of eligible project costs, not to exceed five million dollars (see figure 2 below).

(6) If a project in the hardship category receives partial funding due to department funding constraints, the department may offer the remaining funding, up to five million dollars, in the next funding cycle, and on a case-by-case basis. The department may require further hardship analysis before offering the remaining moneys.

(7) **Loan terms and interest rates.** The department uses the loan hardship-funding continuum, shown in figure 2 below, to determine the hardship-loan interest rates. There is a funding ceiling of five million dollars. In addition to a reduced interest rate, the applicant may receive longer loan repayment terms, not to exceed twenty years.

For example:

Assuming that the average market rate for tax-exempt municipal bonds is five percent, the following would apply.

When a loan applicant with a service area population of twenty-five thousand or less can demonstrate that its sewer user rates for the proposed project are between three and five percent of the median household income, the applicant may be eligible for a twenty-year repayment term and a one percent interest rate. This interest rate represents twenty percent of the average market rate for tax-exempt municipal bonds (see figure 3 below).

(8) **Design-build-operate (construction portion).**

(a) Design-build or design-build-operate projects must be consistent with applicable statutes, such as chapter 39.10 RCW, Alternative public works contracting procedures, chapter 70.150 RCW, Water Quality Joint Development Act, and/or chapter 35.58 RCW, Metropolitan municipal corporations;

(b) The construction portion of a design-build-operate project under chapter 70.150 RCW, Water Quality Joint Development Act, may be eligible for a grant if the public body can demonstrate financial hardship in accordance with WAC 173-95A-400. Hardship-grant ceiling amounts found in WAC 173-95A-520 apply;

(c) Design-build-operate projects must comply with chapter 35.58 RCW, Metropolitan municipal corporations;

(d) The project scope of work must implement a department-approved facilities plan;

(e) In addition to the project application information found in WAC 173-95A-300, the project will be evaluated on the applicant's level of administrative and technical expertise;

(f) At the time of application, the following must be provided:

(i) A legal opinion from an attorney of the public body indicating that the public body has sufficient legal authority to utilize the process;

(ii) A department-approved facilities plan;

(iii) A report detailing the projected savings based on a cost and time-to-complete as compared to the traditional design-bid-construct process;

(g) The department may require that the public body obtain delegation authority consistent with chapter 90.48 RCW, Water pollution control, and assume the responsibility for sequential review and approval of plans, specifications, and change orders. The department will continue to make all eligibility determinations;

(h) Costs associated with change orders are not eligible for reimbursement;

(i) Projects must be completed according to the timeline in WAC 173-95A-700 and 173-95A-710; and

(j) Before the loan agreement is signed, the following must be approved by the department:

(i) Primary design elements;

(ii) Final service agreements.

(9) **Extended grant payments.** In some cases, the legislature may appropriate extended grant payments per RCW 70.146.075.

(10) **Figure 2: Grant Hardship-Funding Continuum**

Sewer User Fee divided by MHI	Below 2.0%	2.0% and above, but Below 3.0%	3.0% and above, but below 5.0%	5.0% and above
Hardship Designation	***Nonhardship*** (Low sewer user rates in relation to MHI) (Not funded with grant dollars)	***Moderate Hardship***	***Elevated Hardship***	***Severe Hardship*** (Very high sewer user rates in relation to median household income (MHI))
Grant Hardship-Funding Continuum	**0% Grant**	**50% Grant** (up to five million dollars)	**75% Grant** (up to five million dollars)	**100% Grant** (up to five million dollars)

(11) **Figure 3: Loan Hardship-Funding Continuum**

Sewer User Fee divided by MHI	Below 2.0%	2.0% and above, but Below 3.0%	3.0% and above, but below 5.0%	5.0% and above
Hardship Designation	***Nonhardship*** (Low sewer user rates in relation to MHI) (Not funded with grant dollars)	***Moderate Hardship***	***Elevated Hardship***	***Severe Hardship*** (Very high sewer user rates in relation to median household income (MHI))
Loan Hardship-Funding Continuum	Loan at 60% of market rate	Loan at 40% of market rate	Loan at 20% of market rate	Loan at 0% interest

[Statutory Authority: RCW 90.48.035. 07-14-096 (Order 05-16), § 173-95A-400, filed 6/29/07, effective 7/30/07.]

WAC 173-95A-410 On-site septic system repair and replacement programs. Applicants may apply for grant funding in conjunction with a state water pollution control revolving fund loan to establish or continue programs that provide hardship funding for on-site septic system repair and replacement for homeowners and small commercial enterprises. The ceiling amounts used for activities grants, cited in WAC 173-95A-520, also apply.

[Statutory Authority: RCW 90.48.035. 07-14-096 (Order 05-16), § 173-95A-410, filed 6/29/07, effective 7/30/07.]

WAC 173-95A-420 Storm water projects. (1) Storm water-related activities, such as education and outreach, monitoring, and some planning efforts, are not grant eligible when those activities are required under a permit, unless the applicant can demonstrate financial hardship.

(2) There are three primary factors in determining financial hardship for storm water projects:

(a) Service area population;

(b) Presence of a permit; and

(c) Community's median household income (MHI).

(3) **Service area population, presence of permit, and median household income.** Applicants under a permit, whose service area population is less than twenty-five thousand, and whose median household income is sixty percent or less of the average statewide MHI, can request hardship-funding consideration.

(4) In rare cases where financial hardship cannot be determined using population and percent of median household income, the department will make financial hardship determinations on a case-by-case basis.

(a) The most recent available census data determines the statewide average median household income; and

(b) This data is updated yearly based on inflation rates as measured by the Federal Bureau of Labor Statistics and published as the *Consumer Price Index*.

(5) **Matching requirements, percent of grant, and grant ceiling amounts.** Storm water-hardship grants are fifty percent grants with a fifty percent cash-matching requirement.

The maximum amount available for a storm water-hardship grant is $500,000.

For example:

When a grant applicant whose service area population is twenty-five thousand or less can demonstrate that its MHI is sixty percent or less of the average statewide MHI, the applicant may be eligible for a fifty percent grant, not to exceed five hundred thousand dollars.

[Statutory Authority: RCW 90.48.035. 07-14-096 (Order 05-16), § 173-95A-420, filed 6/29/07, effective 7/30/07.]

WAC 173-95A-500 Funding allocation. There are two project categories in which the competitive funding is allocated: Activities and facilities.

(1) The scores derived from the application rating and ranking process will determine the allocation of the competitive funding;

(2) No more than two-thirds of the fund can go to either category;

(3) If the demand for funding is low in either category, then moneys may be shifted amongst categories; and

(4) The department will adjust the funding allocation based on the following:

(a) To provide match for other funding sources, such as the Clean Water Act section 319 nonpoint source fund or other funding programs; or

(b) To comply with funding restrictions in legislative appropriations.

For example:

If fifty percent of the competitive centennial program funding is comprised of state building construction account moneys, then fifty percent of the centennial program funding must be allocated to projects approved for that funding source.

[Statutory Authority: RCW 90.48.035. 07-14-096 (Order 05-16), § 173-95A-500, filed 6/29/07, effective 7/30/07.]

WAC 173-95A-510 Funding recognition. (1) The recipient must acknowledge department funding in reports, technical documents, publications, brochures, and other materials.

(2) Site-specific projects must display a sign acknowledging department funding. The sign must be large enough to be seen from nearby roadways, and include a department logo.

[Statutory Authority: RCW 90.48.035. 07-14-096 (Order 05-16), § 173-95A-510, filed 6/29/07, effective 7/30/07.]

WAC 173-95A-520 Ceiling amounts. (1) **Activities projects.** Grants for activities projects made under the centennial program are subject to ceiling amounts of:

(a) Five hundred thousand dollars if the match for the grant is in the form of cash and/or interlocal costs; or

(b) Two hundred fifty thousand dollars if any part of the match is in the form of in-kind goods and services; and

(c) Five hundred thousand dollars for activities project loans.

(2) **Facilities projects.** Loans are subject to ceiling amounts of five million dollars.

(3) **Hardship projects.** Grants for facilities construction projects are subject to ceiling amounts of five million dollars.

(4) **Partially funded projects.** If a project is offered partial funding due to the lack of available centennial moneys, and the recipient is demonstrating progress on the project, the recipient may apply for the remaining eligible project costs in the subsequent funding cycle.

(5) **Water pollution control facilities construction bid overruns.**

(a) If the low responsive responsible construction bid(s) exceeds the engineer's estimate of construction costs, the department may approve funding increases for up to ten percent of the engineer's original estimate;

(b) The ceiling amounts in the year the project was offered funding and as established in WAC 173-95A-520 apply; and

(c) First priority for availability of moneys will be given to hardship communities based on the severity of financial need. For more information, see WAC 173-95A-400.

(6) **Water pollution control facilities construction change orders:**

(a) The department may approve funding for change orders for up to five percent of the eligible portion of the low responsive responsible construction bid(s);

(b) The ceiling amounts in the year the project was offered funding and as established in WAC 173-95A-520 apply; and

(c) First priority for availability of moneys will be given to hardship communities based on the severity of financial need. For more information on hardship, see WAC 173-95A-400.

[Statutory Authority: RCW 90.48.035. 07-14-096 (Order 05-16), § 173-95A-520, filed 6/29/07, effective 7/30/07.]

WAC 173-95A-530 Match. (1) Depending on the grant amount, match can consist of cash or interlocal and in-kind contributions that total twenty-five percent of the total eligible project cost.

(2) No match is required for loans under the centennial program.

[Statutory Authority: RCW 90.48.035. 07-14-096 (Order 05-16), § 173-95A-530, filed 6/29/07, effective 7/30/07.]

WAC 173-95A-540 Step process for facilities. (1) The step process is required for facilities construction projects. The process begins with site-specific planning, and continues through design to construction or implementation. At the time of application, all previous steps must be approved by the department. 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. Funding for one step does not guarantee the future funding of subsequent steps.

(2) The step process includes the following:

(a) **Planning (step one):** Step one involves the preparation of a site-specific facilities plan that identifies the cost-effective alternatives for addressing a water pollution control problem. There is no prerequisite for planning. If there is an existing engineering report, it must be upgraded to a facilities plan;

(b) **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. Facilities plans approved by the department more than two years prior to the close of the application period must contain evidence of recent review by

the department to ensure the document reflects current conditions; and

(c) **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.

(3) **Combined steps for smaller design-bid-construct projects (step four):** In some cases, design and construction may be combined into one loan. Step four applicants must demonstrate that step two (design) can be completed and approved by the department within one year of the effective date of the funding agreement. The total project costs for step four projects must be five million dollars or less.

(4) **Step deviations.** During the application phase of the funding cycle, the department may allow an applicant to deviate from the traditional step requirements if:

(a) The Washington state department of health has declared a public health emergency; and

(b) The proposed project would remedy this situation.

No loan agreement will be signed until all previous steps have been completed and approved by the department.

[Statutory Authority: RCW 90.48.035. 07-14-096 (Order 05-16), § 173-95A-540, filed 6/29/07, effective 7/30/07.]

WAC 173-95A-550 Commercial, industrial, and institutional flows. (1) The portion of a project designed to serve the needs of commercial, industrial, and institutional customers may be funded using loans only.

(2) Capacity to serve local public primary and secondary schools may be grant eligible if the applicant can demonstrate financial hardship according to WAC 173-95A-400.

[Statutory Authority: RCW 90.48.035. 07-14-096 (Order 05-16), § 173-95A-550, filed 6/29/07, effective 7/30/07.]

WAC 173-95A-560 Step process for water pollution control activities. The step process is required for lake projects and recommended for all activities projects.

(1) **Planning** involves the identification of problems and evaluation of cost-effective alternatives.

(2) **Implementation** is the actual implementation of the project based on the planning document. Where the project includes construction, a design element may be included before the implementation step.

[Statutory Authority: RCW 90.48.035. 07-14-096 (Order 05-16), § 173-95A-560, filed 6/29/07, effective 7/30/07.]

WAC 173-95A-570 Performance measures and post-project assessment. (1) The department may require a recipient to develop and implement a postproject assessment plan.

(2) A recipient may be required to participate in a post-project survey and interview regarding performance measures.

[Statutory Authority: RCW 90.48.035. 07-14-096 (Order 05-16), § 173-95A-570, filed 6/29/07, effective 7/30/07.]

WAC 173-95A-600 General requirements. (1) Recipients must fully comply with all applicable federal, state, and local laws and regulations relating to topics such as procurement, discrimination, labor, job safety, drug-free environments, and minority and women owned businesses.

(2) Ongoing management of most aspects of loan projects is subject to the most recent edition of *Administrative Requirements for Ecology Grants and Loans*.

(3) Ongoing management of all aspects of loan projects is subject to the associated funding program guidelines.

(4) The applicant shall secure all necessary permits required by authorities having jurisdiction over the project. Copies must be available to the department upon request.

[Statutory Authority: RCW 90.48.035. 07-14-096 (Order 05-16), § 173-95A-600, filed 6/29/07, effective 7/30/07.]

WAC 173-95A-610 The Growth Management Act. (1) A local government not in compliance with the Growth Management Act may not receive loans or grants from the department, except, in limited circumstances, where a local government must address a public health need or substantial environmental degradation.

(2) For the purposes of this section, "compliance with the Growth Management Act" means that:

A county, city, or town that is required to or chooses to plan under RCW 36.70A.040 has adopted a comprehensive plan, including a capital facilities plan element, and development regulations as required by chapter 36.70A RCW.

(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 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 funding 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: RCW 90.48.035. 07-14-096 (Order 05-16), § 173-95A-610, filed 6/29/07, effective 7/30/07.]

WAC 173-95A-700 Starting a project. Costs incurred before a grant or loan agreement is effective are not eligible for reimbursement, unless prior authorization is granted by the department.

(1) **Prior authorization to incur costs.**

(a) An applicant may request prior authorization to incur eligible project costs if the following applies:

(i) The project is identified on the "final offer and applicant list";

(ii) Costs are incurred between the publication date of the "final offer and applicant list" and when the funding agreement is signed by the water quality program manager or other schedules set in the prior authorization letter; and

(iii) The written request is made to the water quality program manager;

(b) The water quality program manager will send the applicant a letter approving or denying the prior authorization; and

(c) Any project costs incurred prior to the publication date of the "final offer and applicant list" are not eligible for reimbursement. All costs incurred before the agreement is signed by the water quality program manager are at the applicant's own risk.

(2) **Project initiation.** Grant or loan moneys must be spent in a timely fashion. The recipient must consistently meet the performance measures agreed to in the grant or loan agreement. These performance measures include, but are not limited to, the following:

(a) Work on a project must be started within sixteen months of the publication date of the "final offer and applicant list" on which the project was proposed.

(b) Starting a project means making any measurable steps toward achieving the milestones, objectives, and overall goals of the project.

(c) Loan and grant offers identified on the "final offer and applicant list" will be effective for up to one year from the publication date of the "final offer and applicant list." Loan and grant offers that do not result in a signed agreement are automatically terminated, see WAC 173-95A-320 Final offer and applicant list.

(3) **Project initiation extension.** Certain circumstances may allow a time extension of no more than twelve months for starting a project. For example:

(a) Schedules included in water quality permits, consent decrees, or enforcement orders; or

(b) There is a need to do work during an environmental window in a specific season of the year.

[Statutory Authority: RCW 90.48.035. 07-14-096 (Order 05-16), § 173-95A-700, filed 6/29/07, effective 7/30/07.]

WAC 173-95A-710 Finishing a project. Costs incurred after the project completion or expiration dates are not eligible for reimbursement.

(1) **Project completion.**

(a) Work on a project must be completed within five years of the publication date of the "final offer and applicant list" on which the project was proposed. A shorter time period may be specified in the grant or loan agreement; and

(b) Completing a project means fulfilling all milestones and objectives associated with the goals of the grant or loan agreement.

(2) **Project completion extension.**

(a) After the five-year limit is reached, a time extension of no more than twelve months may be made under certain circumstances, including but not limited to:

(i) Schedules included in water quality permits, consent decrees, or enforcement orders; or

(ii) There is a need to do work during an environmental window in a specific season of the year; and

(b) To ensure timely processing, the time extension request must be made prior to the completion or expiration date of the loan or grant agreement.

[Statutory Authority: RCW 90.48.035. 07-14-096 (Order 05-16), § 173-95A-710, filed 6/29/07, effective 7/30/07.]

WAC 173-95A-800 Accounting requirements for grant and loan recipients. (1) Recipients must maintain accounting records in accordance with RCW 43.09.200, Local government accounting—Uniform system of accounting. For example, charges must be properly supported, related to eligible costs, and documented by appropriate records. These records must be maintained separately.

(2) Accounting irregularities may result in an immediate payment hold. The director may require immediate repayment of misused loan or grant moneys.

[Statutory Authority: RCW 90.48.035. 07-14-096 (Order 05-16), § 173-95A-800, filed 6/29/07, effective 7/30/07.]

WAC 173-95A-810 Appealing a department decision. If a dispute arises concerning eligibility decisions made by the department within the context of a loan agreement, the decision may be appealed. A lawsuit cannot be brought to superior court unless the aggrieved party follows these proce-

dures, which are intended to encourage the informal resolution of disputes consistent with RCW 34.05.060.

(1) First, the recipient may seek review of the financial assistance program's initial decision within thirty days of the decision by a written appeal to the water quality program manager. The program manager will consider the appeal information and may choose to discuss the matter by telephone or in person;

(2) The program manager will issue a written decision within thirty days from the time the appeal is received;

(3) If the recipient is not satisfied with the program manager's decision, the recipient may request review of the decision within thirty days to the deputy director;

(4) The deputy director will consider the appeal information, and may chose to discuss the matter by telephone or in person. The deputy director will issue a written decision within thirty days from the time the appeal is received, and that decision will be the final decision of the department;

(5) If the recipient is not satisfied with the deputy director's final decision, the recipient may appeal to the Thurston County superior court, pursuant to RCW 34.05.570(4), which pertains to the review of "other agency action"; and

(6) Unless all parties to such appeal agree that a different time frame is appropriate, the parties shall attempt to bring the matter for a superior court determination within four months of the date in which the administrative record is filed with the court. This time frame is to ensure minimal disruptions to the program.

[Statutory Authority: RCW 90.48.035. 07-14-096 (Order 05-16), § 173-95A-810, filed 6/29/07, effective 7/30/07.]

WAC 173-95A-820 Audit requirements for grant and loan recipients. The department, or at the department's discretion another authorized auditor, will audit the grant or loan agreement and records.

[Statutory Authority: RCW 90.48.035. 07-14-096 (Order 05-16), § 173-95A-820, filed 6/29/07, effective 7/30/07.]

Chapter 173-98 WAC

USES AND LIMITATIONS OF THE WATER POLLUTION CONTROL REVOLVING FUND

WAC

DISPOSITION OF SECTIONS FORMERLY CODIFIED IN THIS CHAPTER

173-98-050 What are the limitations on the use of funds and how are the funds categorized? [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.] Repealed by 07-14-096 (Order 05-16), filed 6/29/07, effective 7/30/07. Statutory Authority: RCW 90.48.035.

173-98-060 What is the step process for planning facilities and activities projects? [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.] Repealed by 07-14-096 (Order 05-16), filed 6/29/07, effective 7/30/07. Statutory Authority: RCW 90.48.035.

173-98-070 What other laws, regulations, or requirements must recipients comply with? [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.] Repealed by 07-14-096 (Order 05-16), filed 6/29/07, effective 7/30/07. Statutory Authority: RCW 90.48.035.

173-98-075 How does the Growth Management Act impact the use of funds? [Statutory Authority: Chapter 90.50A RCW. 01-01-043 (Order 00-11), § 173-98-075, filed 12/8/00, effective 1/8/01.] Repealed by 07-14-096 (Order 05-16), filed 6/29/07, effective 7/30/07. Statutory Authority: RCW 90.48.035.

173-98-080 Indemnification. [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.] Repealed by 07-14-096 (Order 05-16), filed 6/29/07, effective 7/30/07. Statutory Authority: RCW 90.48.035.

173-98-090 How are loans managed? [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.] Repealed by 07-14-096 (Order 05-16), filed 6/29/07, effective 7/30/07. Statutory Authority: RCW 90.48.035.

173-98-120 General provisions. [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.] Repealed by 07-14-096 (Order 05-16), filed 6/29/07, effective 7/30/07. Statutory Authority: RCW 90.48.035.

WAC 173-98-010 Purpose. The purpose of this chapter is to set forth requirements for the department of ecology's administration of the Washington state water pollution control revolving fund, as authorized by chapter 90.50A RCW, water pollution control facilities financing. This fund is primarily comprised of federal capitalization grants, state matching moneys, and principal and interest repayments. It is used to provide loan assistance to public bodies for statewide, high-priority water quality projects that are consistent with the Clean Water Act, 33 U.S.C. 1251-1387.

[Statutory Authority: RCW 90.48.035. 07-14-096 (Order 05-16), § 173-98-010, filed 6/29/07, effective 7/30/07. 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 Integrated funding approach. (1) Where possible, the Washington state department of ecology combines the management of the Washington state water pollution control revolving fund with other funding programs, such as the centennial clean water program, and the federal Clean Water Act section 319 nonpoint source fund.

(2) The integrated funding process includes a combined funding cycle, program guidelines, funding offer and applicant list, and statewide funding workshops.

[Statutory Authority: RCW 90.48.035. 07-14-096 (Order 05-16), § 173-98-020, filed 6/29/07, effective 7/30/07. 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 Definitions. For the purposes of this chapter:

(1) **Act** means the federal Clean Water Act (33 U.S.C. 1251-1387).

(2) **Activities** see water pollution control activities.

(3) **Annual debt service** means the amount of debt the applicant is obligated to pay on the loan in one year.

(4) **Applicant** means a public body that has applied for funding.

(5) **Best management practices** (BMP) means physical, structural, and/or managerial practices approved by the department that prevent or reduce pollutant discharges.

(6) **Ceiling amount** means the highest level of financial assistance the department can provide to a recipient for an individual project.

(7) **Commercial, industrial, and institutional flows** mean the portion of the total flows to a facility that originate from commercial establishments, industrial facilities, or institutional sources such as schools, hospitals, and prisons.

(8) **Competitive funding** means moneys available for projects through a statewide evaluation process.

(9) **Completion date** or **expiration date** means the date indicated in the funding agreement in which all milestones and objectives associated with the goals of the project are met.

(10) **Concentrated animal feeding operation** (CAFO) means:

(a) 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;

(b) An operation that is under a department administrative order, notice of violation, a National Pollution Discharge Elimination System permit;

(c) An operation that will be required to have a National Pollution Discharge Elimination System permit coverage in the near future; or

(d) An operation designated by the Environmental Protection Agency as polluting the waters of Washington state.

(11) **Conservation easement** means a recorded legal agreement between a landowner and a public body to allow or restrict certain activities and uses that may take place on his or her property.

(12) **Conservation plan** means a document that outlines how a project site will be managed using best management practices to avoid potential negative environmental impacts.

(13) **Construction** means to erect, install, expand, or improve water pollution control facilities or activities. Construction includes construction phase engineering and preparation of the operation and maintenance manual.

(14) **Cost-effective alternative** means the option selected in an approved facilities plan that meets the requirements of the project, recognizes environmental and other nonmonetary impacts, and offers the lowest cost over the life of the project (i.e., lowest present worth or equivalent annual value).

(15) **Department** means the Washington state department of ecology.

(16) **Design** means the preparation of the plans and specifications used for construction of water pollution control facilities or activities.

(17) **Director** means the director of the Washington state department of ecology or his or her authorized designee.

(18) **Draft offer and applicant list** means a catalog of all projects considered and proposed for funding based on an evaluation and the appropriations in the Washington state capital budget.

(19) **Easement** means a recorded legal agreement between a public body and a landowner that allows the public body to have access to the landowner's property at any time to inspect, maintain, or repair loan-funded activities or facilities.

(20) **Effective date** means the date the loan agreement is signed by the department's water quality program manager.

(21) **Eligible cost** means the portion of the facilities or activities project that can be funded.

(22) **Enforcement order** means an administrative requirement issued by the department under the authority of RCW 90.48.120 that directs a public body to complete a specified course of action within an explicit period to achieve compliance with the provisions of chapter 90.48 RCW.

(23) **Engineering report** means a document that includes an evaluation of engineering and other alternatives that meet the requirements in chapter 173-240 WAC, Submission of plans and reports for construction of wastewater facilities.

(24) **Environmental degradation** means the reduced capacity of the environment to meet social and ecological objectives and needs.

(25) **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.

(26) **Estimated construction cost** means the expected amount for labor, materials, equipment, and other related work necessary to construct the proposed project.

(27) **Existing need** means water pollution control facility's capacity reserved for all users, at the time of application, in order to meet the requirements of the water quality based effluent limitations in the associated National Pollution Discharge Elimination System or state waste discharge permit.

(28) **Existing residential need** means water pollution control facility's capacity reserved for the residential population, at the time of application, in order to meet the water quality based effluent limitations in the associated National Pollution Discharge Elimination System or state waste discharge permit.

(29) **Facilities** see water pollution control facility.

(30) **Facilities plan** means an engineering report that includes all the elements required by the state environmental review process (SERP), National Environmental Policy Act (NEPA) as appropriate, other federal statutes, and planning requirements under chapter 173-240 WAC, Submission of plans and reports for construction of wastewater facilities.

(31) **Federal capitalization grant** means a federal grant awarded by the U.S. Environmental Protection Agency (EPA) to the state to help expand the state water pollution control revolving fund.

(32) **Final offer and applicant list** means a catalog of all projects considered and proposed for funding and those offered funding.

(33) **Force account** means loan project work performed using labor, materials, or equipment of a public body.

(34) **Funding category** see "water pollution control activities funding category" and "water pollution control facilities funding category."

(35) **Funding cycle** means the events related to the competitive process used to allocate moneys from the Washington state water pollution control revolving fund, centennial clean water program, and the Clean Water Act section 319 nonpoint source fund for a state fiscal year.

(36) **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.

(37) **Indirect cost** means costs that benefit more than one activity of the recipient and not directly assigned to a particular project objective.

(38) **Infiltration and inflow** means water, other than wastewater, that enters a sewer system.

(39) **Infiltration and inflow correction** means the cost-effective alternative or alternatives and the associated corrective actions identified in an approved facilities plan or engineering report for eliminating or reducing the infiltration and inflow to existing sewer system.

(40) **Initiation of operation** means the actual date the recipient begins using, or could begin using, the facilities for its intended purpose. This date may occur prior to final inspection or project completion.

(41) **Intended use plan** (IUP) means a document identifying the types of projects proposed and the amount of all money available for financial assistance from the water pollution control revolving fund for a fiscal year as described in section 606(c) of the act.

(42) **Landowner agreement** means a written arrangement between a public body and a landowner that allows the public body to have access to the property to inspect project-related components.

(43) **Loan agreement** means a contractual arrangement between a public body and the department that involves a disbursement of moneys that must be repaid.

(44) **Loan default** means failure to make a loan repayment to the department within sixty days after the payment was due.

(45) **Nonpoint source water pollution** means pollution that enters any waters from widespread water-based or land-use 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 some boats or other marine vessels.

(46) **Perpetuity** means the point at which the water pollution control revolving fund is earning at least fifty percent of the market rate for tax-exempt municipal bonds on its loan portfolio.

(47) **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.

(48) **Preliminary project priority list** means a catalog of all projects considered for funding based on the governor's budget and submitted to the Washington state legislature for its consideration during budget development.

(49) **Project** means a water quality improvement effort funded with a grant or loan.

(50) **Project completion** or **expiration** means the date indicated in the funding agreement in which all milestones and objectives associated with the goals are met.

(51) **Public body** means a state of Washington county, city or town, conservation district, other political subdivision, municipal corporation, quasi-municipal corporation, those Indian tribes recognized by the federal government, or institutions of higher education when the proposed project is not part of the school's statutory responsibility.

(52) **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.

(53) **Recipient** means a public body that has an effective loan agreement with the department.

(54) **Reserve account** means an account created by the recipient to secure the payment of the principal and interest on the water pollution control revolving fund loan.

(55) **Revenue-secured debt** means an obligation of the recipient secured by a pledge of the revenue of a utility.

(56) **Revolving fund** means the water pollution control revolving fund.

(57) **Riparian buffer** or **zone** means a swath of vegetation along a channel bank that provides protection from the erosive forces of water along the channel margins and external nonpoint sources of pollution.

(58) **Scope of work** means a detailed description of project tasks, milestones, and measurable objectives.

(59) **Senior lien obligations** means all revenue bonds and other obligations of the recipient outstanding on the date of execution of a loan agreement (or subsequently issued on a parity therewith, including refunding obligations) or issued after the date of execution of a loan 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.

(60) **Service area population** means the number of people served in the area of the project.

(61) **Severe public health hazard** means a situation declared by the Washington state department of health in which the potential for illness exists, but illness is not occurring or imminent.

(62) **Sewer** means the pipe and related pump stations located on public property, or on public rights of way and easements that convey wastewater from buildings.

(63) **Side sewer** means a sanitary sewer service extension from the point five feet outside the building foundation to the publicly owned collection sewer.

(64) **State environmental review process** (SERP) means the National Environmental Policy Act (NEPA)-like environmental review process adopted to comply with the requirements of the Environmental Protection Agency's Code of Regulations (40 CFR § 35.3140). SERP combines the State Environmental Policy Act (SEPA) review with additional elements to comply with federal requirements.

(65) **Total eligible project cost** means the sum of all expenses associated with a water quality project that are eligible for funding.

(66) **Total project cost** means the sum of all expenses associated with a water quality project.

(67) **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.

(68) **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.

(69) **Water pollution control activities funding category** means that portion of the water pollution control revolving fund dedicated to nonpoint source pollution projects.

(70) **Water pollution control facility** 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. Facilities include all necessary equipment, utilities, structures, real property, and interests in and improvements on real property.

(71) **Water pollution control facilities funding category** means that portion of the water pollution control revolving fund dedicated to facilities projects.

(72) **Water pollution control revolving fund** (revolving fund) means the water pollution control revolving fund established by RCW 90.50A.020.

(73) **Water resource inventory area** (WRIA) means one of the watersheds in the state of Washington, each composed of the drainage areas of a stream or streams, as established in the Water Resources Management Act of 1971 (chapter 173-500 WAC).

[Statutory Authority: RCW 90.48.035. 07-14-096 (Order 05-16), § 173-98-030, filed 6/29/07, effective 7/30/07. 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 Water pollution control revolving fund (revolving fund) uses. The revolving fund may be used for the following purposes:

(1) To provide loans to finance the planning, design, and/or construction of water pollution control facilities;

(2) To provide loans for nonpoint source pollution control management projects that implement the Washington's water quality management plan to control nonpoint sources of pollution, and for developing and implementing a conservation and management plan under section 320 of the act;

(3) To provide loans for up to twenty years reserve capacity for water pollution control facilities;

(4) To buy or refinance the debt obligations incurred by applicants after March 7, 1985, for the construction of water pollution control facilities;

(5) To guarantee or purchase insurance for local obligations to improve credit market access or reduce interest rates;

(6) 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 revolving fund; and

(7) To finance administration costs incurred by the department as authorized by the act and chapter 90.50A RCW.

[Statutory Authority: RCW 90.48.035. 07-14-096 (Order 05-16), § 173-98-040, filed 6/29/07, effective 7/30/07. 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 173-98-100 Eligible. Certain projects or project elements, including, but not limited to the following, may be eligible for loan assistance:

(1) **Aquatic plant control** when the water quality degradation is due to the presence of aquatic plants, and the source(s) of pollution is addressed sufficiently to ensure that the pollution is eliminated;

(2) **BMP implementation** on private property:

(a) Best management practices that consist of new, innovative, or alternative technology not yet demonstrated in the department's region in which it is proposed;

(b) Best management practices in the riparian buffer or zone, such as revegetation or fence construction and where a conservation easement or landowner agreement is granted by the landowner; and

(c) Other water quality best management practices that are evaluated and approved by the department on a case-by-case basis, and where a conservation easement or landowner agreement is granted by the landowner.

(3) **BMP implementation** on public property;

(4) **Capacity for growth.** Loans for up to twenty years capacity for water pollution control facilities. Capacity in excess of the twenty year design capacity are not eligible;

(5) **Computer equipment and software** specific to the funded project and preapproved by the department;

(6) **Confined animal feeding operations** (CAFO) water pollution control projects located in federally designated national estuaries;

(7) **Conservation planning;**

(8) **Design-build or design-build-operate** (alternative contracting/service agreements) for water pollution control facilities and other alternative public works contracting procedures;

(9) **Diagnostic studies** to assess current water quality;

(10) **Education and outreach** efforts for the public;

(11) **Environmental checklists,** assessments, and impact statements necessary to satisfy requirements for the SEPA, the NEPA, and the SERP;

(12) **Equipment and tools** as identified in a loan agreement;

(13) **Facilities** for the control, storage, treatment, conveyance, disposal, or recycling of domestic wastewater and storm water for residential, and/or a combination of residential, commercial, institutional and industrial:

(a) **Planning:**

(i) **Comprehensive sewer planning,** including wastewater elements of capital facilities planning under the growth management act;

(ii) **Storm water planning;**

(iii) **Facilities planning** for water pollution control facilities;

(b) **Design** preparation of plans and specifications for water pollution control facilities;

(c) **Construction** of:

(i) Facilities for the control, storage, treatment, conveyance, disposal, or recycling of domestic wastewater and storm water;

(ii) Combined sewer overflow abatement;

(iii) Facilities to meet existing needs plus twenty years for growth;

(iv) Side sewers or individual pump stations or other appurtenances on private residential property if solving a nonpoint source pollution problem, such as failing on-site septic systems;

(v) Side sewers existing on public property or private property (with an easement) to correct infiltration and inflow and replace existing water pollution control facilities; and

(vi) New sewer systems to eliminate failing or failed on-site septic systems;

(d) **Value engineering** for water pollution control facilities;

(e) **Design or construction** costs associated with design-build or design-build-operate contracts.

(14) **Ground water protection activities** such as wellhead protection and critical aquifer recharge area protection;

(15) **Hardship assistance** for wastewater treatment facilities construction, storm water, and on-site septic system repair and replacement;

(16) **Indirect costs** as defined in the most recently updated edition of *Administrative Requirements for Ecology Grants and Loans* (publication #91-18);

(17) **Lake implementation and associated planning activities** on lakes with public access;

(18) **Land acquisition:**

(a) As an integral part of the treatment process (e.g., land application); or

(b) For wetland habitat preservation;

(19) **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 SERP;

(20) **Legal expenses** will be determined on a case-by-case basis, such as development of local ordinances, use of a bond counsel, review of technical documents;

(21) **Light refreshments** for meetings when preapproved by the department;

(22) **Monitoring BMP effectiveness;**

(23) **Monitoring equipment** used for water quality assessment;

(24) **Monitoring water quality;**

(25) **Model ordinances** development and dissemination of model ordinances to prevent or reduce pollution from nonpoint sources;

(26) **On-site septic systems:**

(a) **On-site septic system repair and replacement** for residential and small commercial systems;

(b) **On-site wastewater** system surveys;

(c) **Local loan fund** program development and implementation;

(27) **Planning** comprehensive basin, watershed, and area-wide water quality development;

(28) **Refinancing** of water pollution control facility debt;

(29) **Riparian and wetlands habitat restoration** and enhancement, including revegetation;

(30) **Sales tax;**

(31) **Spare parts** initial set of spare parts for equipment that is critical for a facility to operate in compliance with discharge permit requirements;

(32) **Stream restoration projects;**

(33) **Total maximum daily load study** development and implementation;

(34) **Training** to develop specific skills that are necessary to directly satisfy the funding agreement scope of work. Training, conference registration or annual meeting fees must be preapproved by the department;

(35) **Transferring ownership** of a small wastewater system to a public body;

(36) **Wastewater or storm water utility development;**

(37) **Wastewater or storm water utility rate** or development impact fee studies;

(38) **Water quality education** and stewardship programs.

[Statutory Authority: RCW 90.48.035. 07-14-096 (Order 05-16), § 173-98-100, filed 6/29/07, effective 7/30/07. 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 Noneligible. Certain projects or project elements, including but not limited to the following are not eligible for loan assistance:

(1) **Abandonment** or demolition of existing structures not interfering with proposed construction of a wastewater or storm water treatment facility;

(2) **Acts of nature** that alter the natural environment, thereby causing water quality problems;

(3) **Aquatic plant control** for aesthetic reasons, navigational improvements, or other purposes unrelated to water quality;

(4) **Bond costs** for debt issuance;

(5) **Bonus or acceleration payments** to contractors to meet contractual completion dates for construction;

(6) **Commercial, institutional** or **industrial** wastewater pollution control activities or facilities or portions of those facilities that are solely intended to control, transport, treat, dispose, or otherwise manage wastewater;

(7) **Commercial, institutional** or **industrial** monitoring equipment for sampling and analysis of discharges from municipal water pollution control facilities;

(8) **Commercial, institutional** or **industrial** wastewater pretreatment;

(9) **Compensation** or damages for any claim or injury of any kind arising out of the project, including any personal injury, damage to any kind of real or personal property, or any kind of contractual damages, whether direct, indirect, or consequential;

(10) **Cost-plus-a-percentage-of-cost contracts** (also known as multiplier contracts), time and materials contracts, and percent-of-construction contracts in facilities projects;

(11) **Engineering reports;**

(12) **Fines and penalties** due to violations of or failure to comply with federal, state, or local laws;

(13) **Flood control,** projects or project elements intended solely for flood control;

(14) **Funding application preparation** for loans or grants;

(15) **Interest** on bonds, interim financing, and associated costs to finance projects;

(16) **Landscaping** for aesthetic reasons;

(17) **Legal expenses** associated with claims and litigation;

(18) **Lobbying** or expenses associated with lobbying;

(19) **Mitigation** unless it addresses water quality impacts directly related to the project, and determined on a case-by-case basis;

(20) **Office furniture** not included in the recipient's indirect rate;

(21) **Operating expenses** of local government, such as the salaries and expenses of a mayor, city council member, city attorney, etc.;

(22) **Operation and maintenance** costs;

(23) **Overtime** differential paid to employees of public body to complete administrative or force account work;

(24) **Permit fees;**

(25) **Personal injury compensation** or damages arising out of the project, whether determined by adjudication, arbitration, negotiation, or other means;

(26) **Professional dues;**

(27) **Reclamation** of abandoned mines;

(28) **Refinancing** of existing debt;

(29) **Solid or hazardous waste cleanup;**

(30) **Vehicle purchase** except for vehicles intended for the transportation of liquid, dewatered sludge, septage, or special purpose vehicles as approved by the department; and

(31) **Water quantity** or other water resource projects that solely address water quantity issues.

[Statutory Authority: RCW 90.48.035. 07-14-096 (Order 05-16), § 173-98-110, filed 6/29/07, effective 7/30/07. 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 173-98-200 Application for funding. (1) To apply for funding the applicant must submit a completed application to the department. The department will provide the application on the agency web site.

(2) The applicant may be asked to provide the following project information:

(a) Basic information such as names of contacts, addresses, and other tracking information;

(b) Project summary;

(c) Project goals, objectives, and milestones;

(d) Overall water quality benefits;

(e) Public health benefits;

(f) Sources of pollution addressed;

(g) How the project will address state and federal mandates, elements in "Washington's water quality plan to control nonpoint sources of pollution," or other such plans;

(h) Performance measures and postproject assessment monitoring;

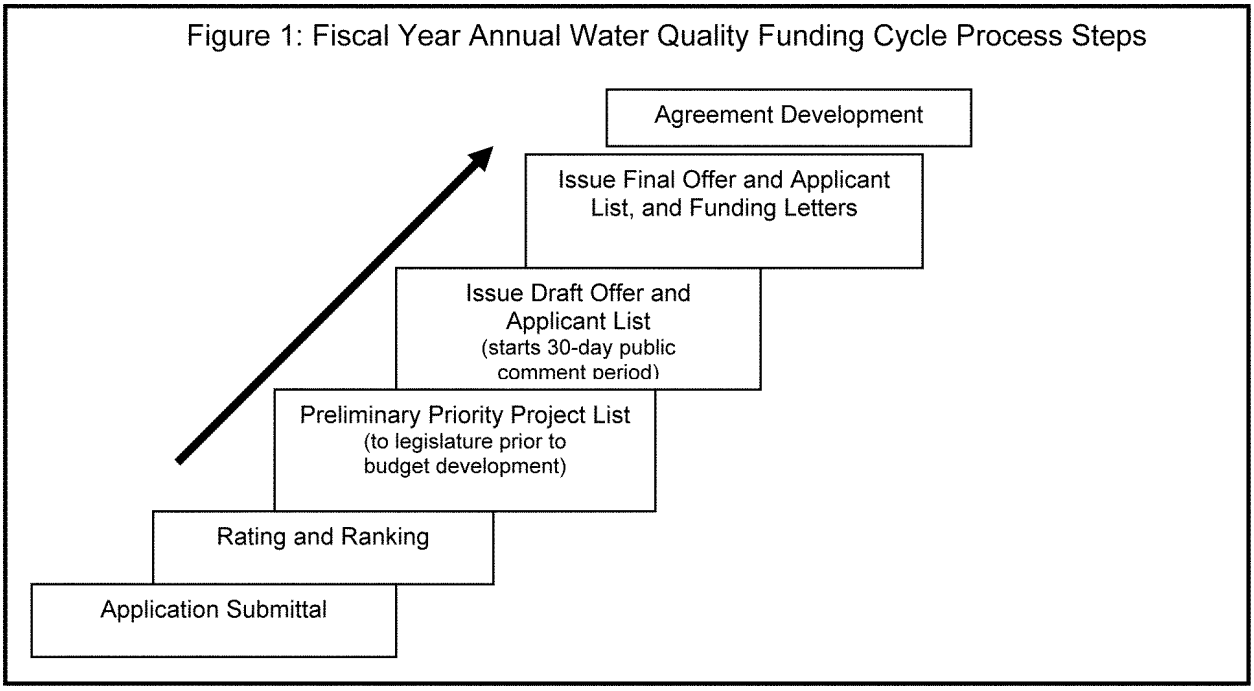
(i) Readiness to proceed, likelihood of success, and measures of success specific to the project;

(j) Local initiatives, commitments, or priorities related to the project; or

(k) Other information requested by the department.

[Statutory Authority: RCW 90.48.035. 07-14-096 (Order 05-16), § 173-98-200, filed 6/29/07, effective 7/30/07.]

WAC 173-98-210 Ecology's responsibilities. (1) A general funding cycle schedule is provided in figure 1.



(2) Ecology will provide the following services:

(a) Make available the application and applicable guidelines before the associated funding cycle begins;

(b) Conduct at least one application workshop in each of ecology's four regions;

(c) Conduct preapplication workshops to discuss regional level priorities if applicable;

(d) After the application deadline, complete an initial review of project proposals for funding eligibility;

(e) Request other agencies to provide evaluation assistance as needed;

(f) Rate and rank the applications using a consistent scoring system;

(g) Prepare a combined preliminary project priority list, after evaluation and scoring of all applications;

(h) Submit preliminary project priority list to the state legislature for budget consideration;

(i) Develop a combined draft offer and applicant list and a draft revolving fund IUP;

(j) Facilitate a public review and comment period for the combined draft offer and applicant list and revolving fund IUP;

(k) Sponsor at least one public meeting to explain the combined draft offer and applicant list and the revolving fund IUP;

(l) Develop a combined "final offer and applicant list" and a final revolving fund IUP. Public comments collected during draft public review period will be incorporated and result in a responsiveness summary;

(m) Issue funding decision letters to all applicants; and

(n) Negotiate, develop, and finalize loan agreements.

[Statutory Authority: RCW 90.48.035. 07-14-096 (Order 05-16), § 173-98-210, filed 6/29/07, effective 7/30/07.]

WAC 173-98-220 Final offer and applicant list. Loan offers identified on the "final offer and applicant list" will be effective for up to one year from the publication date of the "final offer and applicant list." Loan offers that do not result in a signed agreement are automatically terminated.

[Statutory Authority: RCW 90.48.035. 07-14-096 (Order 05-16), § 173-98-220, filed 6/29/07, effective 7/30/07.]

WAC 173-98-230 Revolving fund intended use plan (IUP). (1) As required by the EPA, the department issues an IUP for each funding cycle.

(2) The IUP is issued in conjunction with the "final offer and applicant list."

(3) It contains a detailed report of how the department expects to allocate moneys available in the current funding cycle.

[Statutory Authority: RCW 90.48.035. 07-14-096 (Order 05-16), § 173-98-230, filed 6/29/07, effective 7/30/07.]

WAC 173-98-300 Wastewater treatment facilities construction. (1) There are three primary factors considered in determining hardship funding for the construction portion of wastewater treatment facilities projects:

(a) Service area population;

(b) Existing residential need at the time of application; and

(c) Level of financial burden placed on the ratepayers.

(2) **Service area population.** Applicants with a service area population of twenty-five thousand or less can request hardship-funding consideration by submitting a financial hardship analysis form along with the funding application. If the service area population is different from the population of the applicant, the applicant must show that the hardship assistance is solely used to benefit the population of the service area.

(3) **Existing residential need.** The applicant and the department calculate the water pollution control facilities construction costs that are associated with existing residential need at the time of application.

(4) **Level of financial burden.**

(a) Financial burden for the sewer ratepayer is determined by calculating the residential sewer user fee as a percent of the median household income (MHI). The residential sewer user fee is calculated using the construction cost estimates including:

(i) Estimated construction cost;

(ii) Existing annual operation and maintenance costs;

(iii) Discounted, existing annual operation and maintenance costs as a result of constructing the project;

(iv) Projected future annual operation and maintenance costs for the total facility;

(v) The applicant's current and future annual debt service on the project;

(vi) The revolving fund annual debt service for the funded project;

(vii) Other grants;

(viii) The applicant's level of debt for other wastewater facilities not associated with the project;

(ix) The total number of households existing at the time of application that will be served by the project;

(x) The nonresidential share of the total annual costs is deducted; and

(xi) Median household income;

(b) The sewer user fee as a percentage of MHI is the basis for the department's loan hardship-funding continuum shown in figure 2;

(c) The most recent available census data determines the median household income. This data is updated yearly based on inflation rates as measured by the federal Bureau of Labor Statistics and published as the *Consumer Price Index*; and

(d) If median household income data are not available for a community or if the community disputes the data used by the department, the department may allow an applicant to conduct a scientific survey to determine the median household income.

(5) **Loan terms and interest rates.** The department uses the loan hardship-funding continuum to determine the hardship-loan interest rates. Not more than fifty percent of the funding category can be awarded to any one applicant per funding cycle. In addition to a reduced interest rate, the applicant may receive longer loan repayment terms, not to exceed twenty years.

For example:

Assuming that the average market rate for tax-exempt municipal bonds is five percent, the following would apply.

When an applicant with a service area population of twenty-five thousand or less can demonstrate that its sewer user rates for the proposed project are between three and five percent of the median household income, the applicant may be eligible for a twenty-year repayment term and a one percent interest rate. This interest rate represents twenty percent of the average market rate for tax-exempt municipal bonds (see figure 2).

(6) **Figure 2. Loan Hardship-Funding Continuum**

Sewer User Fee divided by MHI	Below 2.0%	2.0% and above, but Below 3.0%	3.0% and above, but below 5.0%	5.0% and above
Hardship Designation	***Nonhardship*** (Low sewer user rates in relation to MHI) (Not funded with grant dollars)	***Moderate Hardship***	***Elevated Hardship***	***Severe Hardship*** (Very high sewer user rates in relation to median household income (MHI))
Loan Hardship-Funding Continuum	Loan at 60% of market rate	Loan at 40% of market rate	Loan at 20% of market rate	Loan at 0% interest

[Statutory Authority: RCW 90.48.035. 07-14-096 (Order 05-16), § 173-98-300, filed 6/29/07, effective 7/30/07.]

WAC 173-98-310 On-site septic system repair and replacement programs. (1) Applicants may apply for a revolving fund loan to establish or continue programs that provide funding for on-site septic repair and replacement for homeowners and small commercial enterprises.

(2) **Final loan blended interest rate.** The department may adjust the recipient's interest rates based on the interest rates that the recipient charged to homeowners and small commercial enterprises. To receive the adjusted interest rate, the recipient must issue loans shown in figure 3.

(3) Figure 3 shows the interest rate schedule for loans targeted to homeowners at three levels of county median household income. For information on how the market rate is determined, see WAC 173-98-400.

Figure 3.

Homeowner Income is:	20-Year Term	5-Year Term	Hardship Level
Above 80% county MHI	60% of MR	30% of MR	Nonhardship
50 - 80% county MHI	30% of MR	Up to 15% of MR	Moderate
Below 50% county MHI	Up to 15% of MR	0%	Severe

Figure 4.

Figure 4 shows the interest rate schedules for loans targeted to small commercial enterprises at three levels of annual gross revenue. For example, in order for a small commercial enterprise to be considered for moderate to severe

hardship, the business must provide documentation to substantiate that annual gross revenue is less than one hundred thousand dollars.

Small Commercial Enterprise Annual Gross Revenue is:	20-Year Term	5-Year Term	Hardship Level
Above $100,000	60% of MR	30% of MR	Nonhardship
$50,000 - $100,000	30% of MR	Up to 15% of MR	Moderate
Below $50,000	Up to 15% of MR	0%	Severe

(4) The recipient agrees to submit a final compilation of the local loans provided to homeowners and small commercial enterprises throughout the duration of the project. The list will include information provided by the RECIPIENT regarding the number and final dollar amounts of loans funded in the following respective homeowner income and small commercial enterprise revenue levels:

(a) Homeowner income:

(i) Above 80% of county MHI

(ii) 50 to 80% of county MHI

(iii) Below 50% of county MHI

(b) Small commercial enterprise annual gross revenue:

(i) Above $100,000

(ii) $50,000 to $100,000

(iii) Below $50,000

[Statutory Authority: RCW 90.48.035. 07-14-096 (Order 05-16), § 173-98-310, filed 6/29/07, effective 7/30/07.]

WAC 173-98-320 Storm water projects. (1) There are three primary factors in determining financial hardship for storm water projects:

(a) Service area population;

(b) Presence of a permit; and

(c) Community's median household income (MHI).

(2) **Service area population, presence of permit, and median household income.** Applicants under a permit, with a service area population of twenty-five thousand or less, and whose MHI is sixty percent or less of the average statewide MHI can request hardship-funding consideration. If the service area population is different from the population of the applicant, the applicant must show that the hardship assistance is solely used to benefit the population of the service area.

(3) If MHI data are not available for a community or if the community disputes the data used by the department, the department may allow an applicant to conduct a scientific survey to determine the MHI.

(4) Figure 5 describes the interest rate schedule. For information on how the market rate is determined, see WAC 173-98-400.

Figure 5.

Service area MHI is:	20-Year Term	5-Year Term
Above 60% statewide MHI	Not eligible	Not eligible
60% or below statewide MHI	Up to 30% of MR	Up to 15% of MR

[Statutory Authority: RCW 90.48.035. 07-14-096 (Order 05-16), § 173-98-320, filed 6/29/07, effective 7/30/07.]

WAC 173-98-400 Loan interest rates. (1) Interest will accrue on each disbursement as it is paid to the recipient.

(2) The department bases loan interest rates on the average market interest rate. The average market interest rate is:

(a) Based on the daily market rate published in the bond buyer's index for tax-exempt municipal bonds; and

(b) Taken from the period sixty to thirty days before the annual funding application cycle begins.

(3) See WAC 173-98-300 or 173-98-3010 for hardship interest rates.

Figure 6: Loan Terms and Interest Rates

Repayment Period	Interest Rate
Up to 5 years:	30% of the average market rate.
More than 5 but no more than 20 years:	60% of the average market rate.

(4) The director may approve lower interest rates for the annual funding application cycle if a financial analysis of the revolving fund demonstrates that lower interest rates for that year are not detrimental to the perpetuity of the revolving fund.

[Statutory Authority: RCW 90.48.035. 07-14-096 (Order 05-16), § 173-98-400, filed 6/29/07, effective 7/30/07.]

WAC 173-98-410 Refinancing. (1) There are two kinds of refinance with different regulations: Standard refinance and interim refinance.

(2) **Standard refinance** refers to a completed project funded with moneys from a source other than the department. It is limited to water pollution control facilities where project construction began after March 7, 1985.

(a) Applicants requesting standard refinancing must meet all the requirements contained in the act;

(b) Standard refinance projects will only be funded if there is limited demand for moneys for new projects;

(c) All department prerequisites must have been met at the time the project was undertaken;

(d) If multiple standard refinance applications are received, priority will be given based on impacts to the rate payers in the service area of the project;

(e) Standard refinance projects are not eligible for hardship financial assistance; and

(f) Repayment begins six months after a funding agreement becomes effective.

(3) **Interim refinance** applies to a project that is in progress using moneys from a source other than the department. Interim refinance retires existing debt and also covers the remaining eligible project costs. Interim refinance

projects must meet all applicable requirements of this chapter.

[Statutory Authority: RCW 90.48.035. 07-14-096 (Order 05-16), § 173-98-410, filed 6/29/07, effective 7/30/07.]

WAC 173-98-420 Defeasance. (1) No defeasance is allowed as long as the department holds the loan.

(2) Defeasance means setting money aside in a special account that is dedicated to pay all or some of the principal and interest on a debt when it comes due.

[Statutory Authority: RCW 90.48.035. 07-14-096 (Order 05-16), § 173-98-420, filed 6/29/07, effective 7/30/07.]

WAC 173-98-430 Repayment. When a project is complete and all disbursements are made the department will execute a final amendment that will include:

(1) A final loan repayment schedule that reflects the length of repayment terms and the principal from disbursements and accrued interest;

(2) The first repayment of principal and interest will be due one year after the initiation of operation date, or one year after the project completion date, whichever occurs first;

(3) Equal payments will be due every six months;

(4) If the due date for any 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;

(5) Loan balances may be repaid or additional principal payments may be made at any time without penalty; and

(6) The department may assess a late fee for delinquent payments, according to WAC 173-98-470.

[Statutory Authority: RCW 90.48.035. 07-14-096 (Order 05-16), § 173-98-430, filed 6/29/07, effective 7/30/07.]

WAC 173-98-440 Loan security. 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 revolving fund loan agreement shall be absolute and unconditional, and shall not be subject to diminution by setoff, counterclaim, or abatement of any kind.

(1) **General obligation.** Repayment of the loan may be secured by a general obligation pledge. The recipient shall pledge to include in its budget an amount sufficient to pay the principal and interest on the loan when due. For so long as the loan is outstanding, the recipient shall ensure adequate funds are available to enable timely loan repayment, which may require the recipient to levy additional annual taxes against the taxable property within its boundaries. 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.

(2) **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.

Repayment of a loan shall constitute a lien and charge 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. If applicable, repayment of a loan shall constitute a lien and charge upon utility local improvement district assessments prior and superior to any other charges whatsoever.

(3) **Tribal governmental enterprises.** Federally recognized Indian tribes may provide loan security through dedicated revenue from governmental enterprises. The recipient must demonstrate that the security used has a sufficient track record of income to secure the loan. Tribal governmental enterprises may include leases, gaming as provided under approved gaming compacts, forestry, or other tribal government-owned enterprises.

[Statutory Authority: RCW 90.48.035. 07-14-096 (Order 05-16), § 173-98-440, filed 6/29/07, effective 7/30/07.]

WAC 173-98-450 Loan reserve requirements. For a revenue obligation secured loan with terms greater than five years, the recipient must accumulate a reserve account equivalent to the annual debt service on the loan. This reserve must be established before or during the first five years of the loan repayment period. The reserve account may be used to make the last two payments on the revolving fund loan.

[Statutory Authority: RCW 90.48.035. 07-14-096 (Order 05-16), § 173-98-450, filed 6/29/07, effective 7/30/07.]

WAC 173-98-460 Loan default. In the event of loan default, the state of Washington may withhold any amounts due to the recipient from the state for other purposes. Such moneys will be applied to the debt.

[Statutory Authority: RCW 90.48.035. 07-14-096 (Order 05-16), § 173-98-460, filed 6/29/07, effective 7/30/07.]

WAC 173-98-470 Late payments. A late fee of one percent per month on the past due amount will be assessed starting on the date the debt becomes past due and until it is paid in full.

[Statutory Authority: RCW 90.48.035. 07-14-096 (Order 05-16), § 173-98-470, filed 6/29/07, effective 7/30/07.]

WAC 173-98-500 Funding categories. (1) The revolving fund is split into two funding categories:

(a) Water pollution control facilities category: Eighty percent of the revolving fund is used for facilities projects as established under section 212 of the act; and

(b) Water pollution control activities category: Twenty percent of the revolving fund will be available for the implementation of programs or projects established under the "Washington's water quality management plan to control nonpoint sources of pollution."

(2) If the demand is limited in either funding category, the department can shift moneys between the funding categories.

[Statutory Authority: RCW 90.48.035. 07-14-096 (Order 05-16), § 173-98-500, filed 6/29/07, effective 7/30/07.]

WAC 173-98-510 Funding recognition. (1) Where applicable, the recipient must acknowledge department and EPA funding in reports, technical documents, publications, brochures, and other materials.

(2) Where applicable, the recipient must display signs for site-specific projects acknowledging department and EPA funding. The sign must be large enough to be seen from nearby roadways and include a department or EPA logo.

[Statutory Authority: RCW 90.48.035. 07-14-096 (Order 05-16), § 173-98-510, filed 6/29/07, effective 7/30/07.]

WAC 173-98-520 Ceiling amounts. (1) Water pollution control facilities category:

(a) Not more than fifty percent of the revolving fund in this category will be available to any one applicant per funding cycle; and

(b) No more than five million dollars is available for each smaller combined design-construct project (step four). See WAC 173-98-530 for information on smaller combined design-construct projects (step four).

(2) Water pollution control activities category: Not more than fifty percent of the revolving fund in this category will be available to any one applicant per funding cycle.

(3) Partially funded projects: If a project is offered partial funding due to the lack of available revolving fund moneys, and the recipient is demonstrating progress on the project, the recipient may apply for the remaining eligible project costs in the subsequent funding cycle.

(4) Water pollution control facilities construction bid overruns:

(a) If the low responsive responsible construction bid(s) exceeds the engineer's estimate of construction costs, the department may approve funding increases for up to ten percent of the engineer's original estimate;

(b) The ceiling amounts that were established in the fiscal year in which the project was offered funding apply; and

(c) First priority for funding bid overruns will be given to hardship communities based on the severity of financial need.

(5) Water pollution control facilities construction change orders:

(a) The department may approve funding for change orders for up to five percent of the eligible portion of the low responsive responsible construction bid(s);

(b) The ceiling amounts that were established in the fiscal year in which the project was offered funding apply; and

(c) First priority for funding change orders will be given to hardship communities based on the severity of financial need.

[Statutory Authority: RCW 90.48.035. 07-14-096 (Order 05-16), § 173-98-520, filed 6/29/07, effective 7/30/07.]

WAC 173-98-530 Step process for water pollution control facilities. (1) The step process is required for facilities projects. The process begins with site-specific planning, and continues through design to construction.

(2) For steps one through three, an applicant may only apply for funding for one step of the process at a time. At the time of application, completion of the previous steps must be approved by the department. Funding of one step does not guarantee the funding of subsequent steps.

(3) The step process includes the following:

(a) **Planning (step one):** Step one involves the preparation of a site-specific facilities plan that identifies the cost-effective alternatives for addressing a water pollution control problem. There is no prerequisite for planning. If there is an existing engineering report, it must be upgraded to a facilities plan;

(b) **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. A facilities plan must be approved by the department before an application for design can be considered for funding.

Facilities plans approved by the department more than two years prior to the close of the application period must contain evidence of recent review by the department to ensure the document reflects current conditions; and

(c) **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.

(4) **Combined steps for smaller design-construct projects (step four):** In some cases, design and construction may be combined into one loan. Step four applicants must demonstrate that step two (design) can be completed and approved by the department within one year of the effective date of the funding agreement. The total project costs for step four projects must be five million dollars or less.

(5) **Step deviations.** During the application phase of the funding cycle, the department may allow an applicant to deviate from the traditional step requirements if:

(a) The Washington state department of health has declared a public health emergency; and

(b) The proposed project would remedy this situation.

No loan agreement will be signed until all previous steps have been completed and approved by the department.

[Statutory Authority: RCW 90.48.035. 07-14-096 (Order 05-16), § 173-98-530, filed 6/29/07, effective 7/30/07.]

WAC 173-98-540 Step process for water pollution control activities. The step process is required for lake projects and recommended for all activities projects.

(1) **Planning** involves the identification of problems and evaluation of cost-effective alternatives.

(2) **Implementation** is the actual implementation of the project based on the planning document. Where the project includes construction, a design element may be included before the implementation step.

[Statutory Authority: RCW 90.48.035. 07-14-096 (Order 05-16), § 173-98-540, filed 6/29/07, effective 7/30/07.]

WAC 173-98-550 Declaration of construction after project completion. Recipients shall submit a declaration of construction of water pollution control facilities to the department within thirty days of project completion.

[Statutory Authority: RCW 90.48.035. 07-14-096 (Order 05-16), § 173-98-550, filed 6/29/07, effective 7/30/07.]

WAC 173-98-560 Performance measures and post-project assessment. (1) The department may require a recipient to develop and implement a postproject assessment plan.

(2) A recipient may be required to participate in a post-project survey and interview regarding performance measures.

[Statutory Authority: RCW 90.48.035. 07-14-096 (Order 05-16), § 173-98-560, filed 6/29/07, effective 7/30/07.]

WAC 173-98-600 Design-build and design-build-operate project requirements. (1) Design-build or design-build-operate projects must be consistent with applicable statutes, such as chapter 39.10 RCW, Alternative public works contracting procedures, chapter 70.150 RCW, Water Quality Joint Development Act, and/or chapter 35.58 RCW, Metropolitan municipal corporations.

(2) The design and construction portions of a design-build-operate project under chapter 70.150 RCW, Water Quality Joint Development Act, may be eligible for reduced interest rate if the public body can demonstrate financial hardship in accordance with WAC 173-98-300.

(3) The following conditions apply to design-build and design-build-operate projects:

(a) The ceiling amounts in WAC 173-98-520;

(b) If eligible project costs exceed the ceiling amounts in WAC 173-98-520, then public bodies can compete for additional funding in the subsequent funding cycle;

(c) Interest rates for nonhardship projects are set according to WAC 173-98-400;

(d) In the case of hardship, a reduced interest rate may be available for the design and construction portion of a design-build-operate project;

(e) The project scope of work must implement a department-approved facilities plan;

(f) In addition to the project application information listed in WAC 173-98-200, the project will be evaluated on the applicant's level of administrative and technical expertise;

(g) Applicants may apply for up to one hundred ten percent of the facilities planning estimate for design and construction. The loan agreement will be written for the final negotiated contract price;

(h) At the time of application, the following must be provided:

(i) A legal opinion from an attorney of the public body indicating that the public body has sufficient legal authority to utilize the process;

(ii) A department-approved facilities plan;

(iii) A report detailing the projected savings based on a cost and time-to-complete as compared to the traditional design-bid-construct process;

(i) The department may require that the public body obtain delegation authority consistent with chapter 90.48 RCW, Water pollution control, and assume the responsibility for sequential review and approval of plans, specifications, and change orders. The department will continue to make all eligibility determinations;

(j) Costs associated with change orders are not eligible for reimbursement;

(k) Before delegation authority is granted to the applicant and the loan agreement is signed, the following must be approved by the department:

(i) Primary design elements;

(ii) Final service agreements and/or contracts;

(l) Projects funded prior to the effective date of this rule will continue to be managed in accordance with the program guidelines for the year the project was funded;

(m) Projects must be completed according to the timeline in WAC 173-98-800 and 173-98-810; and

(n) Projects funded under the alternative contracting service agreement AC/SA pilot rule of 2002 are placed at the top of the "final offer and applicant list" and IUP each year in relative priority to other AC/SA projects. Loan moneys may be disbursed in equal annual payments or by other means that are not detrimental to the perpetuity of the revolving fund.

[Statutory Authority: RCW 90.48.035. 07-14-096 (Order 05-16), § 173-98-600, filed 6/29/07, effective 7/30/07.]

WAC 173-98-700 General requirements. (1) Recipients must fully comply with all applicable federal, state, and local laws and regulations relating to topics such as procurement, discrimination, labor, job safety, drug-free environments, and minority and women owned businesses.

(2) Ongoing management of most aspects of loan projects is subject to the most recent edition of *Administrative Requirements for Ecology Grants and Loans*.

(3) Ongoing management of all aspects of loan projects is subject to the associated funding program guidelines.

(4) The applicant shall secure all necessary permits required by authorities having jurisdiction over the project. Copies must be available to the department upon request.

[Statutory Authority: RCW 90.48.035. 07-14-096 (Order 05-16), § 173-98-700, filed 6/29/07, effective 7/30/07.]

WAC 173-98-710 The Growth Management Act. (1) A local government not in compliance with the Growth Management Act may not receive loans or grants from the department, except, in limited circumstances, where a local government must address a public health need or substantial environmental degradation.

(2) For the purposes of this section, "compliance with the Growth Management Act" means: A county, city, or town that is required to or chooses to plan under RCW 36.70A.040 has adopted a comprehensive plan, including a capital facilities plan element, and development regulations as required by chapter 36.70A RCW.

(3) For the purposes of this chapter, a public health need related to a loan 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 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 must be documented

by a letter signed by the director and addressed to the public official who signed the loan 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;

(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 for a water pollution control facilities project may not receive loan 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;

(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: RCW 90.48.035. 07-14-096 (Order 05-16), § 173-98-710, filed 6/29/07, effective 7/30/07.]

WAC 173-98-720 State environmental review process (SERP). (1) All recipients must comply with the SERP.

(2) SERP includes all the provisions of the State Environmental Policy Act (SEPA), chapter 43.21C RCW, and the SEPA rules, chapter 197-11 WAC, and applicable federal requirements.

(3) All mitigation measures committed to in documents developed in the SERP process, such as the environmental checklist, environmental report, SEPA environmental impact statement (EIS), the finding of no significant impact/environmental assessment, or record of decision/federal EIS will become revolving fund loan agreement conditions. Failure to abide by these conditions will result in withholding of payments and may result in immediate repayment of the loan.

[Statutory Authority: RCW 90.48.035. 07-14-096 (Order 05-16), § 173-98-720, filed 6/29/07, effective 7/30/07.]

WAC 173-98-730 Cost-effectiveness analysis for water pollution control facilities. (1) Funding will only be considered if the project is shown to be the cost-effective alternative/solution to the water pollution control problem. The cost-effective alternative is determined using a cost-effectiveness analysis.

(2) A cost-effectiveness analysis must be included in the facilities plan and must include the following:

(a) A comparison of the total cost, total present worth or annual equivalent costs of alternatives considered for the planning period;

(b) The no action alternative; and

(c) A consideration of the monetary or nonmonetary costs/benefits of each alternative, such as the environmental impact, energy impacts, growth impacts, and community priorities.

(3) Facilities plans proposing design-build or design-build-operate projects must demonstrate that this approach is the cost-effective alternative for procurement.

[Statutory Authority: RCW 90.48.035. 07-14-096 (Order 05-16), § 173-98-730, filed 6/29/07, effective 7/30/07.]

WAC 173-98-800 Starting a project. Costs incurred before a loan agreement is effective are not eligible for reimbursement, unless prior authorization is granted by the department or interim refinancing is approved. For more information on interim refinancing, see WAC 173-98-410.

(1) **Prior authorization to incur eligible costs.**

(a) An applicant may request prior authorization to incur eligible project costs if the following applies:

(i) The project is identified on the IUP;

(ii) Costs are incurred between the publication date of the "final offer and applicant" list and when the funding agreement is signed by the water quality program manager or other schedules set in the prior authorization letter; and

(iii) The written request is made to the water quality program manager;

(b) The water quality program manager will send the applicant a letter approving or denying the prior authorization; and

(c) Any project costs incurred prior to the publication date of the "final offer and applicant list" are not eligible for reimbursement. All costs incurred before the agreement is signed by the water quality program manager are at the applicant's own risk.

(2) **Project initiation.** Loan moneys must be spent in a timely fashion. The recipient must consistently meet the performance measures agreed to in the loan agreement. These performance measures include, but are not limited to, the following:

(a) Work on a project must be started within sixteen months of the publication date of the "final offer and applicant list" on which the project was proposed.

(b) Starting a project means making any measurable step toward achieving the milestones, objectives, and overall goals of the project.

(c) Loan offers identified on the "final offer and applicant list" will be effective for up to one year from the publication date of the "final offer and applicant list." Local offers that do not result in a signed agreement are automatically terminated, see WAC 173-98-220 Final offer and applicant list.

(3) **Project initiation extension.** Certain circumstances may allow a time extension of no more than twelve months for starting a project. For example:

(a) Schedules included in water quality permits, consent decrees, or enforcement orders; or

(b) There is a need to do work during an environmental window in a specific season of the year; or

(c) Other reasons as identified by the department on a case-by-case basis.

[Statutory Authority: RCW 90.48.035. 07-14-096 (Order 05-16), § 173-98-800, filed 6/29/07, effective 7/30/07.]

WAC 173-98-810 Finishing a project. Costs incurred after the project completion or expiration dates are not eligible for reimbursement.

(1) **Project completion.**

(a) Work on a project must be completed within five years of the publication date of the "final offer and applicant list" on which the project was proposed. A shorter time period may be specified in the loan agreement; and

(b) Completing a project means completing all milestones and objectives associated with the goals of the loan agreement.

(2) **Project completion extension.**

(a) After the five-year limit is reached, a time extension of no more than twelve months may be made under certain circumstances, including but not limited to:

(i) Schedules included in water quality permits, consent decrees, or enforcement orders; or

(ii) There is a need to do work during an environmental window in a specific season of the year; and

(b) To ensure timely processing, the time extension request must be made prior to the completion or expiration date of the loan agreement.

[Statutory Authority: RCW 90.48.035. 07-14-096 (Order 05-16), § 173-98-810, filed 6/29/07, effective 7/30/07.]

WAC 173-98-900 Water pollution control revolving fund (revolving fund) perpetuity. (1) The act requires that the revolving fund be managed in perpetuity.

(2) The department will strive to achieve perpetuity, as defined by WAC 173-98-030, by 2016.

[Statutory Authority: RCW 90.48.035. 07-14-096 (Order 05-16), § 173-98-900, filed 6/29/07, effective 7/30/07.]

WAC 173-98-910 Accounting requirements for loan recipients. (1) Recipients must maintain accounting records in accordance with RCW 43.09.200 Local government accounting—Uniform system of accounting.

(2) Accounting irregularities may result in a payment hold until irregularities are resolved. The director may require immediate repayment of misused loan moneys.

[Statutory Authority: RCW 90.48.035. 07-14-096 (Order 05-16), § 173-98-910, filed 6/29/07, effective 7/30/07.]

WAC 173-98-920 Appealing a department decision. If a dispute arises concerning eligibility decisions made by the department within the context of a loan agreement, the decision may be appealed. A lawsuit cannot be brought to superior court unless the aggrieved party follows these procedures, which are intended to encourage the informal resolution of disputes consistent with RCW 34.05.060.

(1) First, the recipient may seek review of the financial assistance program's initial decision within thirty days of the decision in writing to the water quality program manager. The program manager will consider the appeal information and may choose to discuss the matter by telephone or in person;

(2) The program manager will issue a written decision within thirty days from the time the appeal is received;

(3) If the recipient is not satisfied with the program manager's decision, the recipient has thirty days to submit a written request to the deputy director for a review of the decision;

(4) The deputy director will consider the appeal information, and may choose to discuss the matter by telephone or in person. The deputy director will issue a written decision within thirty days from the time the appeal is received. The deputy director's decision will be the final decision of the department;

(5) If the recipient is not satisfied with the deputy director's final decision, the recipient may appeal to the Thurston County superior court, pursuant to RCW 34.05.570(4), which pertains to the review of "other agency action"; and

(6) Unless all parties to such appeal agree that a different time frame is appropriate, the parties shall attempt to bring the matter for a superior court determination within four months of the date in which the administrative record is filed with the court. This time frame is to ensure minimal disruptions to the program.

[Statutory Authority: RCW 90.48.035. 07-14-096 (Order 05-16), § 173-98-920, filed 6/29/07, effective 7/30/07.]

WAC 173-98-930 Audit requirements for loan recipients. The department, or at the department's discretion, another authorized auditor may audit the revolving fund loan agreement and records.

[Statutory Authority: RCW 90.48.035. 07-14-096 (Order 05-16), § 173-98-930, filed 6/29/07, effective 7/30/07.]

WAC 173-98-940 Insurance for water pollution control facilities projects. Recipients shall maintain comprehensive insurance coverage on the project for an amount equal to the moneys disbursed.

[Statutory Authority: RCW 90.48.035. 07-14-096 (Order 05-16), § 173-98-940, filed 6/29/07, effective 7/30/07.]

WAC 173-98-950 Indemnification. 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 a project funded with a revolving fund loan except for such damage, claim, or liability resulting from the negligence or omission of the department.

[Statutory Authority: RCW 90.48.035. 07-14-096 (Order 05-16), § 173-98-950, filed 6/29/07, effective 7/30/07.]

WAC 173-98-960 Sale of facilities to private enterprises. Recipients may sell facilities financed with the revolving fund to private enterprises. However, the revolving fund loan agreement must be terminated and the revolving fund loan must be repaid immediately upon the sale of that facility.

[Statutory Authority: RCW 90.48.035. 07-14-096 (Order 05-16), § 173-98-960, filed 6/29/07, effective 7/30/07.]

WAC 173-98-970 Self-certification. (1) The department may authorize a recipient to certify compliance with selected program requirements. The recipient must:

(a) Request certification authority;

(b) Document that it has the capability and resources;

(c) Document that it is in the best interest of the state; and

(d) Demonstrate that the request is consistent with state and federal laws and regulations.

(2) Concurrences required in the environmental review process cannot be delegated to recipients.

[Statutory Authority: RCW 90.48.035. 07-14-096 (Order 05-16), § 173-98-970, filed 6/29/07, effective 7/30/07.]

Chapter 173-160 WAC

MINIMUM STANDARDS FOR CONSTRUCTION AND MAINTENANCE OF WELLS

WAC

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. Remove all liners, debris, and obstructions from the well casing, except well screens and packers. All cased water wells 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 seal the casing.

(i) Perforations shall be at least four equidistant cuts per row, and one row per foot. The perforations must be sufficient enough to allow neat cement grout or neat cement, or bentonite slurry to migrate outside the casing and effectively prevent the movement of water.

(ii) Apply enough pressure to force the sealing material through the perforations, filling any voids on the outside of the casing.

(iii) The casing shall be filled completely with neat cement grout, neat cement, or bentonite slurry. The screen and up to five feet of riser pipe may be filled with unhydrated bentonite. The remainder of the riser pipe must be removed.

(iv) The casing may be cut off at a maximum of five feet below land surface. A steel cap shall be welded on the casing; or

(b) Withdraw the casing and fill the bore hole with neat cement grout, neat cement, unhydrated bentonite, or bentonite slurry as the casing is being withdrawn.

(2) Uncased wells - Remove all liners, debris, and obstructions. Seal uncased wells with concrete, neat cement grout, neat cement, or bentonite.

(3) Dug wells -

(a) The following criteria are required for the decommissioning of all dug wells:

(i) Remove all debris and obstructions that impede decommissioning or that may contaminate the aquifer from within the dug well.

(ii) Dug wells may have a maximum of three feet of soil cover from top of sealing material to land surface.

(iii) Dug wells shall be sealed with either unhydrated bentonite, neat cement, neat cement grout, or concrete. The use of controlled density fill (CDF), bentonite slurry, or fly ash is prohibited.

(iv) Dug wells that are not cast-in-place must have a minimum of three feet of sealing material in contact with native soil below land surface. Bentonite slurry shall not be used to decommission dug wells.

(b) Dug wells that are dry at any time during the year and that are less than twenty feet in depth shall be sealed from the bottom to within three feet of land surface.

(c) Dug wells that have a static water level of ten feet from land surface or less and a depth of less than twenty feet may be decommissioned by installing clean chlorinated sand or pea gravel to a maximum depth of ten feet below land surface. The remainder of the well shall be filled with either unhydrated bentonite, neat cement, neat cement grout, or concrete.

(d) Dug wells that have a static water level over ten feet and a depth of less than twenty feet from land surface may be decommissioned by installing clean chlorinated sand or pea gravel to the static level. The remainder of the well shall be filled with either unhydrated bentonite, neat cement, neat cement grout, or cement.

(e) Dug wells with static levels twenty feet or less from the land surface and that are greater than twenty feet deep may be decommissioned by placing chlorinated sand or pea gravel to twenty feet below land surface. The remainder of the well, to a maximum of three feet below land surface, shall be filled with unhydrated bentonite, neat cement, neat cement grout, or concrete.

(f) 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 shall be filled with unhydrated bentonite, neat cement, neat cement grout, or concrete to a maximum of three feet below land surface.

(4) Flowing artesian wells that are not leaking on the outside of the casing shall be decommissioned by pressure grouting with neat cement or weighted high solids bentonite slurry from the bottom of the well bore to land surface. If the well is leaking on the outside of the casing or if leaking develops while the decommissioning method above is employed, then the casing must be perforated and pressure grouted to replace all confining layers and to stop leakage.

(5) Placement of sealing material.

(a) 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 pumped through a tremie tube. As the sealing material is placed, the existing well tile may be encapsulated into the seal material. If concrete, neat cement

grout, bentonite, bentonite slurry, 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 concrete, neat cement, neat cement grout, or bentonite slurry the discharge end of the tremie tube shall be submerged in the sealing material to avoid breaking the seal while filling the annular space.

(b) All authorized sealing material placed above the static water level or into the dewatered portion of the well may be hand poured above the static water level, provided the material does not dilute or segregate, and result in a seal free of voids.

(c) When decommissioning wells that were originally constructed without casing, unhydrated bentonite chips or pellets may be hand placed, provided it forms a continuous seal.

[Statutory Authority: Chapter 18.104 RCW. 07-06-004 (Order 06-16), § 173-160-381, filed 2/22/07, effective 3/25/07; 06-23-121 (Order 06-08), § 173-160-381, filed 11/21/06, effective 12/22/06. 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.]

Chapter 173-180 WAC
FACILITY OIL HANDLING STANDARDS

WAC

WAC 173-180-025 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 available. The director's determination of best achievable protection must 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.

(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 best achievable technology is, the director must consider the effectiveness, engineering feasibility, and commercial availability of the technology.

(3) "Boatyard" means a Class 4 facility which builds, repairs, or refurbishes nonrecreational vessels under three hundred gross tons, regardless of fuel capacity.

(4) "Boom" means flotation boom or other effective barrier containment material suitable for containment of oil discharged onto the surface of the water.

(5) "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.

(6) "Cargo vessel" means a self-propelled ship in commerce, other than a tank vessel or a passenger vessel, three hundred or more gross tons, including but not limited to, commercial fish processing vessels and freighters.

(7) "Certification" means the documentation that a facility employee has met all requirements of an oil transfer training and certification program that meets the requirements of this chapter.

(8) "Class 1 facility" means a facility as defined in RCW 90.56.010 as:

(a) 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.

(b) A Class 1 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 ecology 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 covered vessel, in a single transaction.

(9) "Class 2 facility" means a railroad car, motor vehicle, portable device or other rolling stock, while not transporting oil over the highways or rail lines of the state, used to transfer oil to a nonrecreational vessel.

(10) "Class 3 facility" means a structure that:

(a) Transfers to a nonrecreational vessel with a capacity of ten thousand five hundred or more gallons of oil whether the vessel's oil capacity is used for fuel, lubrication oil, bilge waste, or slops or other waste oils;

(b) Does not transfer oil in bulk to or from a tank vessel or pipeline; and

(c) Does not include any: Boatyard, 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 ecology or a local government under chapter 90.76 RCW; or 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.

(11) "Class 4 facility" means a structure that:

(a) Is a marina, boatyard, marine fueling outlet, and other fueling installations that transfer to a nonrecreational vessel with a capacity to hold less than ten thousand five hundred gallons of oil whether the vessel's oil capacity is used for fuel, lubrication oil, bilge waste, or slops or other waste oil;

(b) Does not transfer oil in bulk to or from a tank vessel or pipeline; and

(c) 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 ecology or a local government under chapter 90.76 RCW; or a motor vehicle motor fuel outlet; or a facility that is operated as part of an exempt agricultural activity as provided in RCW 82.04.330.

(12) "Covered vessel" means a tank vessel, cargo vessel, or passenger vessel.

(13) "Director" means the director of the department of ecology.

(14) "Directly impact" means without treatment.

(15) "Discharge" means any spilling, leaking, pumping, pouring, emitting, emptying, or dumping regardless of quantity.

(16) "Ecology" means the department of ecology.

(17) "Gross ton" means a vessel's approximate volume as defined in Title 46, United States Code of Federal Regulations (CFR), Part 69.

(18) "Innage" means the difference from the surface of the liquid to the tank bottom.

(19) "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.

(20) "Nonrecreational vessel" means any vessel that is not a recreational vessel as defined in this section.

(21) "Oil" or "oils" means oil of any kind that is liquid at atmospheric temperature and pressure and any fractionation thereof, including, but not limited to, crude oil, petroleum, gasoline, fuel oil, diesel oil, oil sludge, oil refuse, biological oils and blends, 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.

(22) "Offshore facility" means any class 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.

(23) "Onshore facility" means any class 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.

(24) "Owner or operator" means:

(a) In the case of a vessel, a person who owns, operates, or charters by demise, a vessel;

(b) In the case of an onshore or offshore facility, a person who owns or operates this type of facility;

(c) In the case of an abandoned vessel or abandoned onshore or offshore facility, the person who owned or operated the vessel or facility immediately before its abandonment; and

(d) "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.

(25) "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.

(26) "Person" means any political subdivision, government agency, municipality, industry, public or private corporation, copartnership, association, firm, individual, or any other entity whatsoever.

(27) "Personnel" means individuals employed by, or under contract with a facility or vessel.

(28) "Person in charge" or "PIC" means a person qualified and designated as required under 33 CFR 155, for vessels, 33 CFR 154 for Class 1, 2, or 3 facilities, or if not designated, the person with overall responsibility for oil transfer operations.

(29) "Process pipelines" means a pipeline used to carry oil within the oil refining/processing units of a Class 1 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.

(30) "Public vessel" means a vessel that is owned, or demise chartered, and is operated by the United States government, or a government of a foreign country, and is not engaged in commercial service.

(31) "Recreational vessel" means a vessel owned and operated only for pleasure with no monetary gain involved, and if leased, rented, or chartered to another for recreational use, is not used for monetary gain. This definition applies to vessels such as house boats, ski boats, and other small craft on a rental or lease agreement.

(32) "Secondary containment" means containment systems, which prevent the discharge of oil from reaching the waters of the state.

(33) "Ship" means any boat, ship, vessel, barge, or other floating craft of any kind.

(34) "Spill" means an unauthorized discharge of oil into the waters of the state.

(35) "State" means the state of Washington.

(36) "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.

(37) "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.

(38) "Transmission pipeline" means an interstate or intrastate pipeline subject to regulation by the United States Department of Transportation under 49 CFR 195 in effect on the effective date of this section, 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.

(39) "Transfer" means any movement of oil in bulk to or from a nonrecreational vessel or transmission pipeline.

(40) "Transfer pipeline" is a buried or aboveground pipeline used to carry oil to or from a tank vessel or transmission pipeline, or to a vessel 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 by ecology.

(41) "Topping off" means the receipt of oil into the last ten percent of available tank capacity in any tank.

(42) "Ullage" means the depth of space above the free surface of the liquid to the reference datum of that tank.

(43) "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: Chapters 90.56, 88.46, 90.48 RCW. 07-22-119 (Order 07-14), § 173-180-025, filed 11/7/07, effective 12/8/07. Statutory Authority: RCW 88.46.160, 88.46.165, and chapter 90.56 RCW. 06-20-034 (Order 06-02), § 173-180-025, filed 9/25/06, effective 10/26/06.]

Chapter 173-182 WAC
OIL SPILL CONTINGENCY PLAN

WAC

WAC 173-182-030 Definitions. (1) "Boom" means flotation boom or other effective barrier containment material suitable for containment, protection or recovery of oil that is discharged onto the surface of the water. Boom also includes the associated support equipment necessary for rapid deployment and anchoring appropriate for the operating environment. Boom will be classified using criteria found in the 2000 ASTM International F 1523-94 (2001) and ASTM International F 625-94 (Reapproved 2000), and the *Resource Typing Guidelines* found in chapter 13 of the 2000 Oil spill field operations guide.

(2) "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.

(3) "Cargo vessel" means a self-propelled ship in commerce, other than a tank vessel or a passenger vessel, three hundred or more gross tons, including but not limited to commercial fish processing vessels and freighters.

(4) "Cascade" means to bring in equipment and personnel to the spill location in a succession of stages, processes, operations, or units.

(5) "Contract or letter summarizing contract terms" means:

(a) A written contract between a plan holder and a primary response contractor or proof of cooperative membership that identifies and ensures the availability of specified personnel and equipment within stipulated planning standard times; or

(b) A letter that identifies personnel, equipment and services capable of being provided by the primary response contractor within stipulated planning standard times; acknowledges that the primary response contractor intends to commit the identified resources in the event of an oil spill.

(6) "Covered vessel" means a tank vessel, cargo vessel (including fishing and freight vessels), or passenger vessel required to participate in this chapter.

(7) "Dedicated" means equipment and personnel committed to oil spill response, containment, and cleanup that are not used for any other activity that would make it difficult or impossible for that equipment and personnel to provide oil spill response services in the time frames specified in this chapter.

(8) "Demise charter" means that the owner gives possession of the ship to the charterer and the charterer hires its own master and crew.

(9) "Director" means the director of the state of Washington department of ecology.

(10) "Discharge" means any spilling, leaking, pumping, pouring, emitting, emptying, or dumping.

(11) "Dispersant" means those chemical agents that emulsify, disperse, or solubilize oil into the water column or promote the surface spreading of oil slicks to facilitate dispersal of the oil into the water column.

(12) "Effective daily recovery capacity" (EDRC) means the calculated capacity of oil recovery devices that accounts for limiting factors such as daylight, weather, sea state, and emulsified oil in the recovered material.

(13) "Ecology" means the state of Washington department of ecology.

(14) "Facility" means:

(a) Any structure, group of structures, equipment, pipeline, or device, other than a vessel, located on or near the navigable waters of the state that:

(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 ecology 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 covered vessel, in a single transaction.

(15) "Geographic Response Plans (GRP)" means response strategies published in the *Northwest Area Contingency Plan*.

(16) "Gross tons" means a vessel's approximate volume as defined under Title 46, United States Code of Federal Regulations, Part 69.

(17) "Incident command system (ICS)" means a standardized on-scene emergency management system specifically designed to allow its user(s) to adopt an integrated organizational structure equal to the complexity and demands of single or multiple incidents, without being hindered by jurisdictional boundaries.

(18) "In situ burn" means a spill response tactic involving controlled on-site burning, with the aid of a specially designed fire containment boom and igniters.

(19) "Interim storage" 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.

(20) "Maximum extent practicable" means the highest level of effectiveness that can be achieved through staffing levels, training procedures, deployment and tabletop drills

incorporating lessons learned, use of enhanced skimming techniques and other best achievable technology. In determining what the maximum extent practicable is, the director shall consider the effectiveness, engineering feasibility, commercial availability, safety, and the cost of the measures.

(21) "Mobilization" means the time it takes to get response resources readied for operation and ready to travel to the spill site or staging area.

(22) "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.

(23) "Nondedicated" means those response resources listed by a primary response contractor for oil spill response activities that are not dedicated response resources.

(24) "Nonpersistent or group 1 oil" means a petroleum-based oil, such as gasoline, diesel or jet fuel, which evaporates relatively quickly. Such oil, at the time of shipment, consists of hydrocarbon fractions of which:

(a) At least fifty percent, by volume, distills at a temperature of 340°C (645°F); and

(b) At least ninety-five percent, by volume, distills at a temperature of 370°C (700°F).

(25) "*Northwest Area Contingency Plan (NWACP)*" means the regional emergency response plan developed in accordance with federal requirements. In Washington state, the NWACP serves as the statewide master oil and hazardous substance contingency plan required by RCW 90.56.060.

(26) "Offshore facility" means any facility 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.

(27) "Oil" or "oils" means oil of any kind that is liquid at atmospheric temperature and pressure and any fractionation thereof, including, but not limited to, crude oil, petroleum, gasoline, fuel oil, diesel oil, oil sludge, oil refuse, biological oils and blends, 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.

(28) "Oily waste" means oil contaminated waste resulting from an oil spill or oil spill response operations.

(29) "Onshore facility" means any facility, as defined in subsection (14) 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.

(30) "Operating environments" means the conditions in which response equipment is designed to function. Water body classifications will be determined using criteria found in the ASTM Standard Practice for Classifying Water Bodies for Spill Control Systems.

(31) "Owner" or "operator" means:

(a) In the case of a vessel, any person owning, operating, or chartering by demise, the vessel;

(b) In the case of an onshore or offshore facility, any person owning or operating the facility; and

(c) 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.

(32) "Passenger vessel" means a ship of greater than three hundred gross tons with a fuel capacity of at least six thousand gallons carrying passengers for compensation.

(33) "Persistent oil" means petroleum-based oil that does not meet the distillation criteria for a nonpersistent oil. Persistent oils are further classified based on both specific and American Petroleum Institute (API) observed gravities corrected to 60°F, as follows:

(a) Group 2 - specific gravity greater than or equal to 0.8000 and less than 0.8500. API gravity less than or equal to 45.00 and greater than 35.0;

(b) Group 3 - specific gravity greater than or equal to 0.8500, and less than 0.9490. API gravity less than or equal to 35.0 and greater than 17.5;

(c) Group 4 - specific gravity greater than or equal to 0.9490 and up to and including 1.0. API gravity less than or equal to 17.5 and greater than 10.00; and

(d) Group 5 - specific gravity greater than 1.0000. API gravity equal to or less than 10.0.

(34) "Person" means any political subdivision, government agency, municipality, industry, public or private corporation, co-partnership, association, firm, individual, or any other entity whatsoever.

(35) "Pipeline" means a pipeline connected to a facility, and not owned or operated by the facility referred to in subsection (14) of this section.

(36) "Pipeline tank farm" means a facility that is linked to a pipeline but not linked to a vessel terminal.

(37) "Plan" means oil spill response, cleanup, and disposal contingency plan for the containment and cleanup of oil spills into the waters of the state and for the protection of fisheries and wildlife, shellfish beds, natural resources, and public and private property from such spills as required by RCW 90.56.210 and 88.46.060.

(38) "Planning standards" means goals and criteria that ecology will use to assess whether a plan holder is prepared to respond to the maximum extent practicable to a worst case spill. Ecology will use planning standards for reviewing oil spill contingency plans and evaluating drills.

(39) "Primary response contractor (PRC)" means a response contractor that has been approved by ecology and is directly responsible to a contingency plan holder, either by a contract or other approved written agreement.

(40) "Public vessel" means a vessel that is owned, or demise chartered, and is operated by the United States government, or a government of a foreign country, and is not engaged in commercial service.

(41) "Regional response list" means a regional equipment list established and maintained by spill response equipment owners in the northwest area.

(42) "Resident" means the spill response resources are staged at a location within the described planning area.

(43) "Responsible party" means a person liable under RCW 90.56.370.

(44) "Ship" means any boat, ship, vessel, barge, or other floating craft of any kind.

(45) "Spill" means an unauthorized discharge of oil which enters waters of the state.

(46) "Spill assessment" means determining product type, potential spill volume, environmental conditions including tides, currents, weather, river speed and initial trajectory as well as a safety assessment including air monitoring.

(47) "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.

(48) "Transmission pipeline" means a pipeline whether interstate or intrastate, subject to regulation by the United States Department of Transportation under 49 C.F.R. 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.

(49) "Transfer site" means a location where oil is moved in bulk on or over waters of the state to or from a covered vessel by means of pumping, gravitation, or displacement.

(50) "Recovery system" means a skimming device, storage work boats, boom, and associated material needed such as pumps, hoses, sorbents, etc., used collectively to maximize oil recovery.

(51) "Umbrella plan" means a single plan that covers multiple vessels or facilities.

(52) "Vessel terminal" means a facility that is located on marine or river waters and transfers oil to or from a tank vessel.

(53) "Waters of the state" means all 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.

(54) "Worst case spill" means:

(a) For an offshore facility, the largest possible spill considering storage, production, and transfer capacity complicated by adverse weather conditions; 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, unless ecology determines that a larger or smaller volume is more appropriate given a particular facility's site characteristics and storage, production, and transfer capacity; or

(c) For a vessel, a spill of the vessel's entire cargo and fuel complicated by adverse weather conditions; or

(d) For pipelines, the size of the worst case spill is dependent on the location of pump stations, key block valves, geographic considerations, or volume of the largest breakout tank. The largest volume determined from three different methods, complicated by adverse weather conditions:

(i) The pipeline's maximum time to detect the release, plus the maximum shutdown response time multiplied by the maximum flow rate per hour, plus the largest line drainage volume after shutdown;

(ii) The maximum historic discharge from the pipeline; and

(iii) The largest single breakout tank or battery of breakout tanks without a single secondary containment system. Each operator shall determine the worst case discharge and provide the methodology, including calculations, used to arrive at the volume.

(55) "WRIA" means a water resource inventory area as defined in chapter 173-500 WAC.

[Statutory Authority: Chapters 90.56, 88.46, 90.48 RCW. 07-22-119 (Order 07-14), § 173-182-030, filed 11/7/07, effective 12/8/07; 06-20-035 (Order 00-03), § 173-182-030, filed 9/25/06, effective 10/26/06.]

Chapter 173-183 WAC

PREASSESSMENT SCREENING AND OIL SPILL COMPENSATION SCHEDULE REGULATIONS

WAC

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 semienclosed 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. Estuarine 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 oil of any kind that is liquid at atmospheric temperature and pressure and any fractionation thereof, including, but not limited to, crude oil, petroleum gasoline, fuel oil, diesel oil, oil sludge, oil refuse, biological oils and blends, 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: Chapters 90.56, 88.46, 90.48 RCW. 07-22-119 (Order 07-14), § 173-183-100, filed 11/7/07, effective 12/8/07. Statutory Authority: Chapter 90.48 RCW. 92-10-005 (Order 91-13), § 173-183-100, 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 one hundred dollars per gallon of oil spilled.

[Statutory Authority: Chapters 90.56, 88.46, 90.48 RCW. 07-22-119 (Order 07-14), § 173-183-320, filed 11/7/07, effective 12/8/07. Statutory Authority: Chapter 90.48 RCW. 92-10-005 (Order 91-13), § 173-183-320, filed 4/23/92, effective 5/24/92.]

Chapter 173-184 WAC

VESSEL OIL TRANSFER ADVANCE NOTICE AND CONTAINMENT REQUIREMENTS

WAC

WAC 173-184-025 Definitions. Unless the context clearly requires otherwise, the definitions in chapter 317-05 WAC and the following apply to this chapter:

(1) "Boatyard" means a class 4 facility which builds, repairs, or refurbishes nonrecreational vessels under three hundred gross tons, regardless of fuel capacity.

(2) "Boom" means flotation boom or other effective barrier containment material suitable for containment of oil that is discharged onto the surface of the water.

(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) "Bunkering" means a bulk oil transfer operation to replenish a self-propelled vessel with fuel or lubricating oil.

(5) "Cargo vessel" means a self-propelled ship in commerce, other than a tank vessel or a passenger vessel, three hundred or more gross tons, including but not limited to, commercial fish processing vessels and freighters.

(6) "Class 1 facility" means a facility as defined in RCW 90.56.010 as:

(a) 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.

(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 ecology 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 covered vessel, in a single transaction.

(7) "Class 2 facility" means a railroad car, motor vehicle, portable device or other rolling stock, while not transporting oil over the highways or rail lines of the state, used to transfer oil to a nonrecreational vessel.

(8) "Class 3 facility" means a structure that:

(a) Transfers to a nonrecreational vessel with a capacity of ten thousand five hundred or more gallons of oil whether the vessel's oil capacity is used for fuel, lubrication oil, bilge waste, or slops or other waste oils;

(b) Does not transfer oil in bulk to or from a tank vessel or pipeline; and

(c) Does not include any: Boatyard, 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 ecology or a local government under chapter 90.76 RCW; or 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.

(9) "Class 4 facility" means a structure that:

(a) Is a marina, boatyard, marine fueling outlet and other fueling installations that transfers to a nonrecreational vessel with a capacity to hold less than ten thousand five hundred gallons of oil whether the vessel's oil capacity is used for fuel, lubrication oil, bilge waste, or slops or other waste oil;

(b) Does not transfer oil in bulk to or from a tank vessel or pipeline; and

(c) 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 ecology or a local government under chapter 90.76 RCW; or a motor vehicle motor fuel outlet; or a facility that is operated as part of an exempt agricultural activity as provided in RCW 82.04.330.

(10) "Covered vessel" means a tank vessel, cargo vessel, or passenger vessel.

(11) "Discharge" means any spilling, leaking, pumping, pouring, emitting, emptying, or dumping regardless of quantity.

(12) "Ecology" means the department of ecology.

(13) "Gross ton" means a vessel's approximate volume as defined in Title 46, United States Code of Federal Regulations (CFR), Part 69.

(14) "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.

(15) "Nonrecreational vessel" means any vessel that is not a recreational vessel as defined in this section.

(16) "Oil" or "oils" means oil of any kind that is liquid at atmospheric temperature and pressure and any fractionation thereof, including, but not limited to, crude oil, petroleum, gasoline, fuel oil, diesel oil, oil sludge, oil refuse, biological oils and blends, 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(4) of the federal Comprehensive Environmental Response, Compensation, and Liability Act of 1980, as amended by P.L. 99-499.

(17) "Owner" or "operator" means:

(a) In the case of a vessel, any person owning, operating, or chartering by demise, the vessel;

(b) In the case of an onshore or offshore facility, any person owning or operating the facility;

(c) In the case of an abandoned vessel, onshore, or offshore facility, the person who owned or operated the vessel or facility immediately before its abandonment; and

(d) "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.

(18) "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.

(19) "Person" means any political subdivision, government agency, municipality, industry, public or private corporation, co-partnership, association, firm, individual, ship, or any other entity whatsoever.

(20) "Person in charge" or "PIC" means a person qualified and designated as required under 33 CFR 155, for vessels, 33 CFR 154 for class 1, 2, or 3 facilities, or if not designated, the person with overall responsibility for oil transfer operations.

(21) "Personnel" means individuals employed by, or under contract with a facility or vessel.

(22) "Public vessel" means a vessel that is owned, or demise chartered, and is operated by the United States government, or a government of a foreign country, and is not engaged in commercial service.

(23) "Recreational vessel" means a vessel owned and operated only for pleasure with no monetary gain involved and if leased, rented, or chartered to another for recreational use is not used for monetary gain. This definition applies to vessels such as house boats, ski boats, and other small craft on a rental or lease agreement.

(24) "Ship" means any boat, ship, vessel, barge, or other floating craft of any kind.

(25) "Spill" means an unauthorized discharge of oil into the waters of the state.

(26) "State" means the state of Washington.

(27) "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.

(28) "Transfer" means any movement of oil in bulk to or from a nonrecreational vessel or transmission pipeline.

(29) "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: Chapters 90.56, 88.46, 90.48 RCW. 07-22-119 (Order 07-14), § 173-184-025, filed 11/7/07, effective 12/8/07. Statutory Authority: RCW 88.46.160, 88.46.165, and chapter 90.56 RCW. 06-20-034 (Order 06-02), § 173-184-025, filed 9/25/06, effective 10/26/06.]

Chapter 173-303 WAC
DANGEROUS WASTE REGULATIONS

WAC

WAC 173-303-040 Definitions. When used in this chapter, the following terms have the meanings given below.

"Aboveground tank" means a device meeting the definition of "tank" in this section and that is situated in such a way that the entire surface area of the tank is completely above the plane of the adjacent surrounding surface and the entire surface area of the tank (including the tank bottom) is able to be visually inspected.

"Active life" of a facility means the period from the initial receipt of dangerous waste at the facility until the department receives certification of final closure.

"Active portion" means that portion of a facility which is not a closed portion, and where dangerous waste recycling, reuse, reclamation, transfer, treatment, storage or disposal operations are being or have been conducted after:

The effective date of the waste's designation by 40 CFR Part 261; and

March 10, 1982, for wastes designated only by this chapter and not designated by 40 CFR Part 261. (See also "closed portion" and "inactive portion.")

"Active range" means a military range that is currently in service and is being regularly used for range activities.

"Acute hazardous waste" means dangerous waste sources (listed in WAC 173-303-9904) F020, F021, F022, F023, F026, or F027, and discarded chemical products (listed in WAC 173-303-9903) that are identified with a dangerous waste number beginning with a "P", including those wastes mixed with source, special nuclear, or by-product material subject to the Atomic Energy Act of 1954. The abbreviation "AHW" will be used in this chapter to refer to those dangerous and mixed wastes which are acute hazardous wastes. Note - the terms acute and acutely are used interchangeably.

"Ancillary equipment" means any device including, but not limited to, such devices as piping, fittings, flanges, valves, and pumps, that is used to distribute, meter, or control the flow of dangerous waste from its point of generation to a storage or treatment tank(s), between dangerous waste storage and treatment tanks to a point of disposal on-site, or to a point of shipment for disposal off-site.

"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.

"Batch" means any waste which is generated less frequently than once a month.

"Battery" means a device consisting of one or more electrically connected electrochemical cells which is designed to receive, store, and deliver electric energy. An electrochemical cell is a system consisting of an anode, cathode, and an electrolyte, plus such connections (electrical and mechanical) as may be needed to allow the cell to deliver or receive electrical energy. The term battery also includes an intact, unbroken battery from which the electrolyte has been removed.

"Berm" means the shoulder of a dike.

"Boiler" means an enclosed device using controlled flame combustion and having the following characteristics:

The unit must have physical provisions for recovering and exporting thermal energy in the form of steam, heated fluids, or heated gases; and

The unit's combustion chamber and primary energy recovery section(s) must be of integral design. To be of integral design, the combustion chamber and the primary energy recovery section(s) (such as waterwalls and superheaters) must be physically formed into one manufactured or assembled unit. A unit in which the combustion chamber and the primary energy recovery section(s) are joined only by ducts or connections carrying flue gas is not integrally designed; however, secondary energy recovery equipment (such as economizers or air preheaters) need not be physically formed into the same unit as the combustion chamber and the primary energy recovery section. The following units are not precluded from being boilers solely because they are not of integral design: Process heaters (units that transfer energy directly to a process stream), and fluidized bed combustion units; and

While in operation, the unit must maintain a thermal energy recovery efficiency of at least sixty percent, calculated in terms of the recovered energy compared with the thermal value of the fuel; and

The unit must export and utilize at least seventy-five percent of the recovered energy, calculated on an annual basis. In this calculation, no credit will be given for recovered heat used internally in the same unit. (Examples of internal use are the preheating of fuel or combustion air, and the driving of induced or forced draft fans or feedwater pumps); or

The unit is one which the department has determined, on a case-by-case basis, to be a boiler, after considering the standards in WAC 173-303-017(6).

"By-product" means a material that is not one of the primary products of a production process and is not solely or separately produced by the production process. Examples are process residues such as slags or distillation column bottoms. The term does not include a coproduct that is produced for the general public's use and is ordinarily used in the form it is produced by the process.

"Carbon regeneration unit" means any enclosed thermal treatment device used to regenerate spent activated carbon.

"Carcinogenic" means a material known to contain a substance which has sufficient or limited evidence as a human or animal carcinogen as listed in both IARC and either IRIS or HEAST.

"Cathode ray tube" or "CRT" means a vacuum tube, composed primarily of glass, which is the visual or video display component of an electronic device. A used, intact CRT means a CRT whose vacuum has not been released. A used, broken CRT means glass removed from its housing or casing whose vacuum has been released.

"Chemical agents and chemical munitions" are defined as in 50 U.S.C. section 1521 (j)(1).

"Cleanup-only facility" means a site, including any contiguous property owned or under the control of the owner or operator of the site, where the owner or operator is or will be treating, storing, or disposing of remediation waste, including dangerous remediation waste, and is not, has not and will not be treating, storing or disposing of dangerous waste that is not remediation waste. A cleanup-only facility is not a "facil-

ity" for purposes of corrective action under WAC 173-303-646.

"Closed portion" means that portion of a facility which an owner or operator has closed, in accordance with the approved facility closure plan and all applicable closure requirements.

"Closure" means the requirements placed upon all TSD facilities to ensure that all such facilities are closed in an acceptable manner (see also "post-closure").

"Commercial chemical product or manufacturing chemical intermediate" refers to a chemical substance which is manufactured or formulated for commercial or manufacturing use which consists of the commercially pure grade of the chemical, any technical grades of the chemical that are produced or marketed, and all formulations in which the chemical is the sole active ingredient.

"Commercial fertilizer" means any substance containing one or more recognized plant nutrients and which is used for its plant nutrient content and/or which is designated for use or claimed to have value in promoting plant growth, and includes, but is not limited to, limes, gypsum, and manipulated animal manures and vegetable compost. The commercial fertilizer must be registered with the state or local agency regulating the fertilizer in the locale in which the fertilizer is being sold or applied.

"Compliance procedure" means any proceedings instituted pursuant to the Hazardous Waste Management Act as amended in 1980 and 1983, and chapter 70.105A RCW, or regulations issued under authority of state law, which seeks to require compliance, or which is in the nature of an enforcement action or an action to cure a violation. A compliance procedure includes a notice of intention to terminate a permit pursuant to WAC 173-303-830(5), or an application in the state superior court for appropriate relief under the Hazardous Waste Management Act. A compliance procedure is considered to be pending from the time a notice of violation or of intent to terminate a permit is issued or judicial proceedings are begun, until the department notifies the owner or operator in writing that the violation has been corrected or that the procedure has been withdrawn or discontinued.

"Component" means either the tank or ancillary equipment of a tank system.

"Constituent" or "dangerous waste constituent" means a chemically distinct component of a dangerous waste stream or mixture.

"Container" means any portable device in which a material is stored, transported, treated, disposed of, or otherwise handled.

"Containment building" means a hazardous waste management unit that is used to store or treat hazardous waste under the provisions of WAC 173-303-695.

"Contingency plan" means a document setting out an organized, planned, and coordinated course of action to be followed in case of a fire, explosion, or release of dangerous waste or dangerous waste constituents which could threaten human health or environment.

"Contract" means the written agreement signed by the department and the state operator.

"Corrosion expert" means a person who, by reason of his knowledge of the physical sciences and the principles of engineering and mathematics, acquired by a professional education and related practical experience, is qualified to engage in the practice of corrosion control on buried or submerged metal piping systems and metal tanks. Such a person must be certified as being qualified by the National Association of Corrosion Engineers (NACE) or be a registered professional engineer who has certification or licensing that includes education and experience in corrosion control on buried or submerged metal piping systems and metal tanks.

"CRT collector" means a person who receives CRTs for recycling, repair, resale, or donation.

"CRT glass manufacturer" means an operation or part of an operation that uses a furnace to manufacture CRT glass.

"CRT processing" means conducting all of the following activities:

• Receiving broken or intact CRTs; and

• Intentionally breaking intact CRTs or further breaking or separating broken CRTs; and

• Sorting or otherwise managing glass removed from CRT monitors.

"Dangerous waste constituents" means those constituents listed in WAC 173-303-9905 and any other constituents that have caused a waste to be a dangerous waste under this chapter.

"Dangerous waste management unit" is a contiguous area of land on or in which dangerous waste is placed, or the largest area in which there is a significant likelihood of mixing dangerous waste constituents in the same area. Examples of dangerous waste management units include a surface impoundment, a waste pile, a land treatment area, a landfill cell, an incinerator, a tank and its associated piping and underlying containment system and a container storage area. A container alone does not constitute a unit; the unit includes containers and the land or pad upon which they are placed.

"Dangerous wastes" means those solid wastes designated in WAC 173-303-070 through 173-303-100 as dangerous, or extremely hazardous or mixed waste. As used in this chapter, the words "dangerous waste" will refer to the full universe of wastes regulated by this chapter. The abbreviation "DW" will refer only to that part of the regulated universe which is not extremely hazardous waste. (See also "extremely hazardous waste," "hazardous waste," and "mixed waste" definitions.)

"Debris" means solid material exceeding a 60 mm particle size that is intended for disposal and that is: A manufactured object; or plant or animal matter; or natural geologic material. However, the following materials are not debris: Any material for which a specific treatment standard is provided in 40 CFR Part 268 Subpart D (incorporated by reference in WAC 173-303-140 (2)(a)); process residuals such as smelter slag and residues from the treatment of waste, wastewater, sludges, or air emission residues; and intact containers of hazardous waste that are not ruptured and that retain at least seventy-five percent of their original volume. A mixture of debris that has not been treated to the standards provided by 40 CFR 268.45 and other material is subject to regulation as debris if the mixture is comprised primarily of debris, by volume, based on visual inspection.

"Department" means the department of ecology.

"Dermal LD_{50}" means the single dosage in milligrams per kilogram (mg/kg) body weight which, when dermally (skin) applied for 24 hours, within 14 days kills half of a

group of ten rabbits each weighing between 2.0 and 3.0 kilograms.

"Designated facility" means a dangerous waste treatment, storage, or disposal facility that has received a permit (or interim status) in accordance with the requirements of this chapter, has received a permit (or interim status) from another state authorized in accordance with 40 CFR Part 271, has received a permit (or interim status) from EPA in accordance with 40 CFR Part 270, has a permit by rule under WAC 173-303-802(5), or is regulated under WAC 173-303-120 (4)(c) or 173-303-525 when the dangerous waste is to be recycled, and that has been designated on the manifest pursuant to WAC 173-303-180(1). If a waste is destined to a facility in an authorized state that has not yet obtained authorization to regulate that particular waste as dangerous, then the designated facility must be a facility allowed by the receiving state to accept such waste. The following are designated facilities only for receipt of state-only waste; they cannot receive federal hazardous waste from off-site: Facilities operating under WAC 173-303-500 (2)(c).

"Designation" is the process of determining whether a waste is regulated under the dangerous waste lists, WAC 173-303-080 through 173-303-082; or characteristics, WAC 173-303-090; or criteria, WAC 173-303-100. The procedures for designating wastes are in WAC 173-303-070. A waste that has been designated as a dangerous waste may be either DW or EHW.

"Destination facility" means a facility that treats, disposes of, or recycles a particular category of universal waste, except those management activities described in WAC 173-303-573 (9)(a), (b) and (c) and 173-303-573 (20)(a), (b) and (c). A facility at which a particular category of universal waste is only accumulated, is not a destination facility for purposes of managing that category of universal waste.

"Dike" means an embankment or ridge of natural or man-made materials used to prevent the movement of liquids, sludges, solids, or other substances.

"*Dioxins and furans (D/F)*" means tetra, penta, hexa, hepta, and octa-chlorinated dibenzo dioxins and furans.

"Director" means the director of the department of ecology or his designee.

"Discharge" or "dangerous waste discharge" means the accidental or intentional release of hazardous substances, dangerous waste or dangerous waste constituents such that the substance, waste or a waste constituent may enter or be emitted into the environment.

"Disposal" means the discharging, discarding, or abandoning of dangerous wastes or the treatment, decontamination, or recycling of such wastes once they have been discarded or abandoned. This includes the discharge of any dangerous wastes into or on any land, air, or water.

"Domestic sewage" means untreated sanitary wastes that pass through a sewer system to a publicly owned treatment works (POTW) for treatment.

"Draft permit" means a document prepared under WAC 173-303-840 indicating the department's tentative decision to issue or deny, modify, revoke and reissue, or terminate a permit. A notice of intent to terminate or deny a permit are types of draft permits. A denial of a request for modification, revocation and reissuance, or termination as discussed in WAC 173-303-830 is not a draft permit.

"Drip pad" is an engineered structure consisting of a curbed, free-draining base, constructed of nonearthen materials and designed to convey preservative kick-back or drippage from treated wood, precipitation, and surface water run-on to an associated collection system at wood preserving plants.

"Elementary neutralization unit" means a device which:

Is used for neutralizing wastes which are dangerous wastes only because they exhibit the corrosivity characteristics defined in WAC 173-303-090 or are listed in WAC 173-303-081, or in 173-303-082 only for this reason; and

Meets the definition of tank, tank system, container, transport vehicle, or vessel.

"Enforceable document" means an order, consent decree, plan or other document that meets the requirements of 40 CFR 271.16(e) and is issued by the director to apply alternative requirements for closure, post-closure, ground water monitoring, corrective action or financial assurance under WAC 173-303-610 (1)(d), 173-303-645 (1)(e), or 173-303-620 (8)(d) or, as incorporated by reference at WAC 173-303-400, 40 CFR 265.90(f), 265.110(d), or 265.140(d). Enforceable documents include, but are not limited to, closure plans and post-closure plans, permits issued under chapter 70.105 RCW, orders issued under chapter 70.105 RCW and orders and consent decrees issued under chapter 70.105D RCW.

"Environment" means any air, land, water, or ground water.

"EPA/state identification number" or "EPA/state ID#" means the number assigned by EPA or by the department of ecology to each generator, transporter, and TSD facility.

"Existing tank system" or "existing component" means a tank system or component that is used for the storage or treatment of dangerous waste and that is in operation, or for which installation has commenced on or prior to February 3, 1989. Installation will be considered to have commenced if the owner or operator has obtained all federal, state, and local approvals or permits necessary to begin physical construction of the site or installation of the tank system and if either:

A continuous on-site physical construction or installation program has begun; or

The owner or operator has entered into contractual obligations, which cannot be canceled or modified without substantial loss, for physical construction of the site or installation of the tank system to be completed within a reasonable time.

"Excluded scrap metal" is processed scrap metal, unprocessed home scrap metal, and unprocessed prompt scrap metal.

"Existing TSD facility" means a facility which was in operation or for which construction commenced on or before November 19, 1980, for wastes designated by 40 CFR Part 261, or August 9, 1982, for wastes designated only by this chapter and not designated by 40 CFR Part 261. A facility has commenced construction if the owner or operator has obtained permits and approvals necessary under federal, state, and local statutes, regulations, and ordinances and either:

A continuous on-site, physical construction program has begun; or

The owner or operator has entered into contractual obligation, which cannot be canceled or modified without sub-

stantial loss, for physical construction of the facility to be completed within a reasonable time.

"Explosives or munitions emergency" means a situation involving the suspected or detected presence of unexploded ordnance (UXO), damaged or deteriorated explosives or munitions, an improvised explosive device (IED), other potentially explosive material or device, or other potentially harmful military chemical munitions or device, that creates an actual or potential imminent threat to human health, including safety, or the environment, including property, as determined by an explosives or munitions emergency response specialist. Such situations may require immediate and expeditious action by an explosives or munitions emergency response specialist to control, mitigate, or eliminate the threat.

"Explosives or munitions emergency response" means all immediate response activities by an explosives and munitions emergency response specialist to control, mitigate, or eliminate the actual or potential threat encountered during an explosives or munitions emergency. An explosives or munitions emergency response may include in-place render-safe procedures, treatment or destruction of the explosives or munitions and/or transporting those items to another location to be rendered safe, treated, or destroyed. Any reasonable delay in the completion of an explosives or munitions emergency response caused by a necessary, unforeseen, or uncontrollable circumstance will not terminate the explosives or munitions emergency. Explosives and munitions emergency responses can occur on either public or private lands and are not limited to responses at RCRA facilities.

"Explosives or munitions emergency response specialist" means an individual trained in chemical or conventional munitions or explosives handling, transportation, render-safe procedures, or destruction techniques. Explosives or munitions emergency response specialists include Department of Defense (DOD) emergency explosive ordnance disposal (EOD), technical escort unit (TEU), and DOD-certified civilian or contractor personnel; and other federal, state, or local government, or civilian personnel similarly trained in explosives or munitions emergency responses.

"Extremely hazardous waste" means those dangerous and mixed wastes designated in WAC 173-303-100 as extremely hazardous. The abbreviation "EHW" will be used in this chapter to refer to those dangerous and mixed wastes which are extremely hazardous. (See also "dangerous waste" and "hazardous waste" definitions.)

"Facility" means:

• All contiguous land, and structures, other appurtenances, and improvements on the land used for recycling, reusing, reclaiming, transferring, storing, treating, or disposing of dangerous waste. A facility may consist of several treatment, storage, or disposal operational units (for example, one or more landfills, surface impoundments, or combination of them). Unless otherwise specified in this chapter, the terms "facility," "treatment, storage, disposal facility," "TSD facility," "dangerous waste facility" or "waste management facility" are used interchangeably.

• For purposes of implementing corrective action under WAC 173-303-64620 or 173-303-64630, "facility" also means all contiguous property under the control of an owner or operator seeking a permit under chapter 70.105 RCW or chapter 173-303 WAC and includes the definition of facility at RCW 70.105D.020(4).

"Facility mailing list" means the mailing list for a facility maintained by the department in accordance with WAC 173-303-840 (3)(e)(I)(D).

"Final closure" means the closure of all dangerous waste management units at the facility in accordance with all applicable closure requirements so that dangerous waste management activities under WAC 173-303-400 and 173-303-600 through 173-303-670 are no longer conducted at the facility. Areas only subject to generator standards WAC 173-303-170 through 173-303-230 need not be included in final closure.

"Fish LC50" means the concentration that will kill fifty percent of the exposed fish in a specified time period. For book designation, LC50 data must be derived from an exposure period greater than or equal to twenty-four hours. A hierarchy of species LC50 data should be used that includes (in decreasing order of preference) salmonids, fathead minnows (Pimephales promelas), and other fish species. For the ninety-six-hour static acute fish toxicity test, described in WAC 173-303-110 (3)(b)(i), coho salmon (Oncorhynchus kisutch), rainbow trout (Oncorhynchus mykiss), or brook trout (Salvelinus fontinalis) must be used.

"Food chain crops" means tobacco, crops grown for human consumption, and crops grown to feed animals whose products are consumed by humans.

"Freeboard" means the vertical distance between the top of a tank or surface impoundment dike, and the surface of the waste contained therein.

"Fugitive emissions" means the emission of contaminants from sources other than the control system exit point. Material handling, storage piles, doors, windows and vents are typical sources of fugitive emissions.

"Generator" means any person, by site, whose act or process produces dangerous waste or whose act first causes a dangerous waste to become subject to regulation.

"Genetic properties" means those properties which cause or significantly contribute to mutagenic, teratogenic, or carcinogenic effects in man or wildlife.

"Ground water" means water which fills voids below the land surface and in the earth's crust.

"Halogenated organic compounds" (HOC) means any organic compounds which, as part of their composition, include one or more atoms of fluorine, chlorine, bromine, or iodine which is/are bonded directly to a carbon atom. This definition does not apply to the federal land disposal restrictions of 40 CFR Part 268 which are incorporated by reference at WAC 173-303-140 (2)(a). Note: Additional information on HOCs may be found in *Chemical Testing Methods for Designating Dangerous Waste*, Ecology Publication #97-407.

"Hazardous debris" means debris that contains a hazardous waste listed in WAC 173-303-9903 or 173-303-9904, or that exhibits a characteristic of hazardous waste identified in WAC 173-303-090.

"Hazardous substances" means any liquid, solid, gas, or sludge, including any material, substance, product, commodity, or waste, regardless of quantity, that exhibits any of the physical, chemical or biological properties described in WAC 173-303-090 or 173-303-100.

"Hazardous wastes" means those solid wastes designated by 40 CFR Part 261, and regulated as hazardous and/or mixed waste by the United States EPA. This term will never be abbreviated in this chapter to avoid confusion with the abbreviations "DW" and "EHW." (See also "dangerous waste" and "extremely hazardous waste" definitions.)

"Home scrap metal" is scrap metal as generated by steel mills, foundries, and refineries such as turnings, cuttings, punchings, and borings.

"Ignitable waste" means a dangerous waste that exhibits the characteristic of ignitability described in WAC 173-303-090(5).

"Inactive portion" means that portion of a facility which has not recycled, treated, stored, or disposed dangerous waste after:

The effective date of the waste's designation, for wastes designated under 40 CFR Part 261; and

March 10, 1982, for wastes designated only by this chapter and not designated by 40 CFR Part 261.

"Inactive range" means a military range that is not currently being used, but that is still under military control and considered by the military to be a potential range area, and that has not been put to a new use that is incompatible with range activities.

"Incinerator" means any enclosed device that:

Uses controlled flame combustion and neither meets the criteria for classification as a boiler, sludge dryer, or carbon regeneration unit, nor is listed as an industrial furnace; or

Meets the definition of infrared incinerator or plasma arc incinerator.

"Incompatible waste" means a dangerous waste which is unsuitable for placement in a particular device or facility because it may corrode or decay the containment materials, or is unsuitable for mixing with another waste or material because the mixture might produce heat or pressure, fire or explosion, violent reaction, toxic dusts, fumes, mists, or gases, or flammable fumes or gases.

"Independent qualified registered professional engineer" means a person who is licensed by the state of Washington, or a state which has reciprocity with the state of Washington as defined in RCW 18.43.100, and who is not an employee of the owner or operator of the facility for which construction or modification certification is required. A qualified professional engineer is an engineer with expertise in the specific area for which a certification is given.

"Industrial-furnace" means any of the following enclosed devices that are integral components of manufacturing processes and that use thermal treatment to accomplish recovery of materials or energy: Cement kilns; lime kilns; aggregate kilns; phosphate kilns; blast furnaces; smelting, melting, and refining furnaces (including pyrometallurgical devices such as cupolas, reverberator furnaces, sintering machines, roasters and foundry furnaces); titanium dioxide chloride process oxidation reactors; coke ovens; methane reforming furnaces; combustion devices used in the recovery of sulfur values from spent sulfuric acid; pulping liquor recovery furnaces; combustion devices used in the recovery of sulfur values from spent sulfuric acid; and halogen acid furnaces (HAFs) for the production of acid from halogenated dangerous waste generated by chemical production facilities where the furnace is located on the site of a chemical production facility, the acid product has a halogen acid content of at least 3%, the acid product is used in a manufacturing process, and, except for dangerous waste burned as fuel, dangerous waste fed to the furnace has a minimum halogen content of 20% as-generated. The department may decide to add devices to this list on the basis of one or more of the following factors:

The device is designed and used primarily to accomplish recovery of material products;

The device burns or reduces secondary materials as ingredients in an industrial process to make a material product;

The device burns or reduces secondary materials as effective substitutes for raw materials in processes using raw materials as principal feedstocks;

The device burns or reduces raw materials to make a material product;

The device is in common industrial use to produce a material product; and

Other factors, as appropriate.

"Infrared incinerator" means any enclosed device that uses electric powered resistance heaters as a source of radiant heat followed by an afterburner using controlled flame combustion and which is not listed as an industrial furnace.

"Inground tank" means a device meeting the definition of "tank" in this section whereby a portion of the tank wall is situated to any degree within the ground, thereby preventing visual inspection of that external surface area of the tank that is in the ground.

"Inner liner" means a continuous layer of material placed inside a tank or container which protects the construction materials of the tank or container from the waste or reagents used to treat the waste.

"Installation inspector" means a person who, by reason of his knowledge of the physical sciences and the principles of engineering, acquired by a professional education and related practical experience, is qualified to supervise the installation of tank systems.

"Interim status permit" means a temporary permit given to TSD facilities which qualify under WAC 173-303-805.

"Knowledge" means sufficient information about a waste to reliably substitute for direct testing of the waste. To be sufficient and reliable, the "knowledge" used must provide information necessary to manage the waste in accordance with the requirements of this chapter.

Note: "Knowledge" may be used by itself or in combination with testing to designate a waste pursuant to WAC 173-303-070 (3)(c), or to obtain a detailed chemical, physical, and/or biological analysis of a waste as required in WAC 173-303-300(2).

"Lamp," also referred to as "universal waste lamp" means any type of high or low pressure bulb or tube portion of an electric lighting device that generates light through the discharge of electricity either directly or indirectly as radiant energy. Universal waste lamps include, but are not limited to, fluorescent, mercury vapor, metal halide, high-pressure sodium and neon. As a reference, it may be assumed that four, four-foot, one-inch diameter unbroken fluorescent tubes are equal to 2.2 pounds in weight.

"Land disposal" means placement in or on the land, except in a corrective action management unit or staging pile,

and includes, but is not limited to, placement in a landfill, surface impoundment, waste pile, injection well, land treatment facility, salt dome formation, salt bed formation, underground mine or cave, or placement in a concrete vault, or bunker intended for disposal purposes.

"Landfill" means a disposal facility, or part of a facility, where dangerous waste is placed in or on land and which is not a pile, a land treatment facility, a surface impoundment, or an underground injection well, a salt dome formation, a salt bed formation, an underground mine, a cave, or a corrective action management unit.

"Land treatment" means the practice of applying dangerous waste onto or incorporating dangerous waste into the soil surface so that it will degrade or decompose. If the waste will remain after the facility is closed, this practice is disposal.

"Large quantity handler of universal waste" means a universal waste handler (as defined in this section) who accumulates 11,000 pounds or more total of universal waste (batteries, thermostats, mercury-containing equipment, and lamps calculated collectively) and/or who accumulates more than 2,200 pounds of lamps at any time. This designation as a large quantity handler of universal waste is retained through the end of the calendar year in which 11,000 pounds or more total of universal waste and/or 2,200 pounds of lamps is accumulated.

"Leachable inorganic waste" means solid dangerous waste (i.e., passes paint filter test) that is not an organic/carbonaceous waste and exhibits the toxicity characteristic (dangerous waste numbers D004 to D011, only) under WAC 173-303-090(8).

"Leachate" means any liquid, including any components suspended in the liquid, that has percolated through or drained from dangerous waste.

"Leak-detection system" means a system capable of detecting the failure of either the primary or secondary containment structure or the presence of a release of dangerous waste or accumulated liquid in the secondary containment structure. Such a system must employ operational controls (e.g., daily visual inspections for releases into the secondary containment system of aboveground tanks) or consist of an interstitial monitoring device designed to detect continuously and automatically the failure of the primary or secondary containment structure or the presence of a release of dangerous waste into the secondary containment structure.

"Legal defense costs" means any expenses that an insurer incurs in defending against claims of third parties brought under the terms and conditions of an insurance policy.

"Liner" means a continuous layer of man-made or natural materials which restrict the escape of dangerous waste, dangerous waste constituents, or leachate through the sides, bottom, or berms of a surface impoundment, waste pile, or landfill.

"Major facility" means a facility or activity classified by the department as major.

"Manifest" means the shipping document, prepared in accordance with the requirements of WAC 173-303-180, which is used to identify the quantity, composition, origin, routing, and destination of a dangerous waste while it is being transported to a point of transfer, disposal, treatment, or storage.

"Manufacturing process unit" means a unit which is an integral and inseparable portion of a manufacturing operation, processing a raw material into a manufacturing intermediate or finished product, reclaiming spent materials or reconditioning components.

"Marine terminal operator" means a person engaged in the business of furnishing wharfage, dock, pier, warehouse, covered and/or open storage spaces, cranes, forklifts, bulk loading and/or unloading structures and landings in connection with a highway or rail carrier and a water carrier. A marine terminal operator includes, but is not limited to, terminals owned by states and their political subdivisions; railroads who perform port terminal services not covered by their line haul rates; common carriers who perform port terminal services; and warehousemen and stevedores who operate port terminal facilities.

"Mercury-containing equipment" means a device or part of a device (excluding batteries, thermostats, and lamps) that contains elemental mercury necessary for its operation. Examples of mercury-containing equipment include thermometers, manometers, and electrical switches.

"Micronutrient fertilizer" means a produced or imported commercial fertilizer that contains commercially valuable concentrations of micronutrients but does not contain commercially valuable concentrations of nitrogen, phosphoric acid, available phosphorous, potash, calcium, magnesium, or sulfur. Micronutrients are boron, chlorine, cobalt, copper, iron, manganese, molybdenum, sodium, and zinc.

"Military" means the Department of Defense (DOD), the Armed Services, Coast Guard, National Guard, Department of Energy (DOE), or other parties under contract or acting as an agent for the foregoing, who handle military munitions.

"Military munitions" means all ammunition products and components produced or used by or for the U.S. Department of Defense or the U.S. Armed Services for national defense and security, including military munitions under the control of the Department of Defense, the U.S. Coast Guard, the U.S. Department of Energy (DOE), and National Guard personnel. The term military munitions includes: Confined gaseous, liquid, and solid propellants, explosives, pyrotechnics, chemical and riot control agents, smokes, and incendiaries used by DOD components, including bulk explosives and chemical warfare agents, chemical munitions, rockets, guided and ballistic missiles, bombs, warheads, mortar rounds, artillery ammunition, small arms ammunition, grenades, mines, torpedoes, depth charges, cluster munitions and dispensers, demolition charges, and devices and components thereof. Military munitions do not include wholly inert items, improvised explosive devices, and nuclear weapons, nuclear devices, and nuclear components thereof. However, the term does include nonnuclear components of nuclear devices, managed under DOE's nuclear weapons program after all required sanitization operations under the Atomic Energy Act of 1954, as amended, have been completed.

"Military range" means designated land and water areas set aside, managed, and used to conduct research on, develop, test, and evaluate military munitions and explosives, other ordnance, or weapon systems, or to train military personnel in their use and handling. Ranges include firing lines and positions, maneuver areas, firing lanes, test pads, detonation

pads, impact areas, and buffer zones with restricted access and exclusionary areas.

"Miscellaneous unit" means a dangerous waste management unit where dangerous waste is treated, stored, or disposed of and that is not a container, tank, surface impoundment, pile, land treatment unit, landfill, incinerator, boiler, industrial furnace, underground injection well with appropriate technical standards under 40 CFR Part 146, containment building, corrective action management unit, temporary unit, staging pile, or unit eligible for a research, development, and demonstration permit under WAC 173-303-809.

"Mixed waste" means a dangerous, extremely hazardous, or acutely hazardous waste that contains both a nonradioactive hazardous component and, as defined by 10 CFR 20.1003, source, special nuclear, or by-product material subject to the Atomic Energy Act of 1954 (42 U.S.C. 2011 et seq.).

"New tank system" or "new tank component" means a tank system or component that will be used for the storage or treatment of dangerous waste and for which installation has commenced after February 3, 1989; except, however, for purposes of WAC 173-303-640 (4)(g)(ii) and 40 CFR 265.193 (g)(2) as adopted by reference in WAC 173-303-400(3), a new tank system is one for which construction commences after February 3, 1989. (See also "existing tank system.")

"New TSD facility" means a facility which began operation or for which construction commenced after November 19, 1980, for wastes designated by 40 CFR Part 261, or August 9, 1982, for wastes designated only by this chapter and not designated by 40 CFR Part 261.

"NIOSH registry" means the registry of toxic effects of chemical substances which is published by the National Institute for Occupational Safety and Health.

"Nonsudden accident" or "nonsudden accidental occurrence" means an unforeseen and unexpected occurrence which takes place over time and involves continuous or repeated exposure.

"Occurrence" means an accident, including continuous or repeated exposure to conditions, which results in bodily injury or property damage which the owner or operator neither expected nor intended to occur.

"Off-specification used oil fuel" means used oil fuel that exceeds any specification level described in Table 1 in WAC 173-303-515.

"Onground tank" means a device meeting the definition of "tank" in this section and that is situated in such a way that the bottom of the tank is on the same level as the adjacent surrounding surface so that the external tank bottom cannot be visually inspected.

"On-site" means the same or geographically contiguous property which may be divided by public or private right of way, provided that the entrance and exit between the properties is at a cross-roads intersection, and access is by crossing as opposed to going along the right of way. Noncontiguous properties owned by the same person but connected by a right of way which they control and to which the public does not have access, are also considered on-site property.

"Operator" means the person responsible for the overall operation of a facility. (See also "state operator.")

"Oral LD_{50}" means the single dosage in milligrams per kilogram (mg/kg) body weight, when orally administered, which, within 14 days, kills half a group of ten or more white rats each weighing between 200 and 300 grams.

"Organic/carbonaceous waste" means a dangerous waste that contains combined concentrations of greater than ten percent organic/carbonaceous constituents in the waste; organic/carbonaceous constituents are those substances that contain carbon-hydrogen, carbon-halogen, or carbon-carbon chemical bonding.

"Partial closure" means the closure of a dangerous waste management unit in accordance with the applicable closure requirements of WAC 173-303-400 and 173-303-600 through 173-303-695 at a facility that contains other active dangerous waste management units. For example, partial closure may include the closure of a tank (including its associated piping and underlying containment systems), landfill cell, surface impoundment, waste pile, or other dangerous waste management unit, while other units of the same facility continue to operate.

"Permit" means an authorization which allows a person to perform dangerous waste transfer, storage, treatment, or disposal operations, and which typically will include specific conditions for such facility operations. Permits must be issued by one of the following:

The department, pursuant to this chapter;

United States EPA, pursuant to 40 CFR Part 270; or

Another state authorized by EPA, pursuant to 40 CFR Part 271.

"Permit-by-rule" means a provision of this chapter stating that a facility or activity is deemed to have a dangerous waste permit if it meets the requirements of the provision.

"Persistence" means the quality of a material that retains more than half of its initial activity after one year (365 days) in either a dark anaerobic or dark aerobic environment at ambient conditions. Persistent compounds are either halogenated organic compounds (HOC) or polycyclic aromatic hydrocarbons (PAH) as defined in this section.

"Person" means any person, firm, association, county, public or municipal or private corporation, agency, or other entity whatsoever.

"Pesticide" means but is not limited to: Any substance or mixture of substances intended to prevent, destroy, control, repel, or mitigate any insect, rodent, nematode, mollusk, fungus, weed, and any other 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 department of agriculture may declare to be a pest; any substance or mixture of substances intended to be used as a plant regulator, defoliant, or desiccant; any substance or mixture of substances intended to be used as spray adjuvant; and, any other substance intended for such use as may be named by the department of agriculture by regulation. Herbicides, fungicides, insecticides, and rodenticides are pesticides for the purposes of this chapter.

"Pile" means any noncontainerized accumulation of solid, nonflowing dangerous waste that is used for treatment or storage.

"Plasma arc incinerator" means any enclosed device using a high intensity electrical discharge or arc as a source of heat followed by an afterburner using controlled flame combustion and which is not listed as an industrial furnace.

"Point source" means any confined and discrete conveyance from which pollutants are or may be discharged. This term includes, but is not limited to, pipes, ditches, channels, tunnels, wells, cracks, containers, rolling stock, concentrated animal feeding operations, or watercraft, but does not include return flows from irrigated agriculture.

"Polycyclic aromatic hydrocarbons" (PAH) means those hydrocarbon molecules composed of two or more fused benzene rings. For purposes of this chapter, the PAHs of concern for designation are: Acenaphthene, acenaphthylene, fluorene, anthracene, fluoranthene, phenanthrene, benzo(a) anthracene, benzo(b)fluoranthene, benzo(k)fluoranthene, pyrene, chrysene, benzo(a)pyrene, dibenz(a,h)anthracene, indeno(1,2,3-c,d)pyrene, benzo(g,h,i)perylene, dibenzo [(a,e), (a,h), (a,i), and (a,1)] pyrenes, and dibenzo (a,j) acridine.

"Post-closure" means the requirements placed upon disposal facilities (e.g., landfills, impoundments closed as disposal facilities, etc.) after closure to ensure their environmental safety for a number of years after closure. (See also "closure.")

"Processed scrap metal" is scrap metal that has been manually or physically altered to either separate it into distinct materials to enhance economic value or to improve the handling of materials. Processed scrap metal includes, but is not limited to, scrap metal which has been baled, shredded, sheared, chopped, crushed, flattened, cut, melted, or separated by metal type (that is, sorted), and fines, drosses and related materials that have been agglomerated. Note: Shredded circuit boards being sent for recycling are not considered processed scrap metal. They are covered under the exclusion from the definition of solid waste for shredded circuit boards being recycled (WAC 173-303-071 (3)(gg)).

"Prompt scrap metal" is scrap metal as generated by the metal working/fabrication industries and includes such scrap metal as turnings, cuttings, punchings, and borings. Prompt scrap is also known as industrial or new scrap metal.

"Publicly owned treatment works" or "POTW" means any device or system, owned by the state or a municipality, which is used in the treatment, recycling, or reclamation of municipal sewage or liquid industrial wastes. This term includes sewers, pipes, or other conveyances only if they convey wastewater to a POTW.

"Qualified ground water scientist" means a scientist or engineer who has received a baccalaureate or post-graduate degree in the natural sciences or engineering, and has sufficient training and experience in ground water hydrology and related fields to make sound professional judgments regarding ground water monitoring and contaminant fate and transport. Sufficient training and experience may be demonstrated by state registration, professional certifications, or completion of accredited university courses.

"Reactive waste" means a dangerous waste that exhibits the characteristic of reactivity described in WAC 173-303-090(7).

"Reclaim" means to process a material in order to recover useable products, or to regenerate the material. Reclamation is the process of reclaiming.

"Recover" means extract a useable material from a solid or dangerous waste through a physical, chemical, biological, or thermal process. Recovery is the process of recovering.

"Recycle" means to use, reuse, or reclaim a material.

"Recycling unit" is a contiguous area of land, structures and equipment where materials designated as dangerous waste or used oil are placed or processed in order to recover useable products or regenerate the original materials. For the purposes of this definition, "placement" does not mean "storage" when conducted within the provisions of WAC 173-303-120(4). A container, tank, or processing equipment alone does not constitute a unit; the unit includes containers, tanks or other processing equipment, their ancillary equipment and secondary containment system, and the land upon which they are placed.

"Registration number" means the number assigned by the department of ecology to a transporter who owns or leases and operates a ten-day transfer facility within Washington state.

"Regulated unit" means any new or existing surface impoundment, landfill, land treatment area or waste pile that receives any dangerous waste after:

July 26, 1982, for wastes regulated by 40 CFR Part 261;

October 31, 1984 for wastes designated only by this chapter and not regulated by 40 CFR Part 261; or

The date six months after a waste is newly identified by amendments to 40 CFR Part 261 or this chapter which cause the waste to be regulated.

"Release" means any intentional or unintentional spilling, leaking, pouring, emitting, emptying, discharging, injecting, pumping, escaping, leaching, dumping, or disposing of dangerous wastes, or dangerous constituents as defined at WAC 173-303-64610(4), into the environment and includes the abandonment or discarding of barrels, containers, and other receptacles containing dangerous wastes or dangerous constituents and includes the definition of release at RCW 70.105D.020(20).

"Remediation waste" means all solid and dangerous wastes, and all media (including ground water, surface water, soils, and sediments) and debris, that are managed for implementing cleanup.

"Replacement unit" means a landfill, surface impoundment, or waste pile unit from which all or substantially all of the waste is removed, and that is subsequently reused to treat, store, or dispose of dangerous waste. "Replacement unit" does not apply to a unit from which waste is removed during closure, if the subsequent reuse solely involves the disposal of waste from that unit and other closing units or corrective action areas at the facility, in accordance with an approved closure plan or EPA or state approved corrective action.

"Representative sample" means a sample which can be expected to exhibit the average properties of the sample source.

"Reuse or use" means to employ a material either:

As an ingredient (including use as an intermediate) in an industrial process to make a product (for example, distillation bottoms from one process used as feedstock in another process). However, a material will not satisfy this condition if distinct components of the material are recovered as separate end products (as when metals are recovered from metal-containing secondary materials); or

In a particular function or application as an effective substitute for a commercial product (for example, spent pickle

liquor used as phosphorous precipitant and sludge conditioner in wastewater treatment).

"Runoff" means any rainwater, leachate, or other liquid which drains over land from any part of a facility.

"Run-on" means any rainwater, leachate, or other liquid which drains over land onto any part of a facility.

"Satellite accumulation area" means a location at or near any point of generation where hazardous waste is initially accumulated in containers (during routine operations) prior to consolidation at a designated ninety-day accumulation area or storage area. The area must be under the control of the operator of the process generating the waste or secured at all times to prevent improper additions of wastes into the satellite containers.

"Schedule of compliance" means a schedule of remedial measures in a permit including an enforceable sequence of interim requirements leading to compliance with this chapter.

"Scrap metal" means bits and pieces of metal parts (e.g., bars, turnings, rods, sheets, wire) or metal pieces that may be combined together with bolts or soldering (e.g., radiators, scrap automobiles, railroad box cars), which when worn or superfluous can be recycled.

"Sludge" means any solid, semisolid, or liquid waste generated from a municipal, commercial, or industrial wastewater treatment plant, water supply treatment plant, or air pollution control facility. This term does not include the treated effluent from a wastewater treatment plant.

"Sludge dryer" means any enclosed thermal treatment device that is used to dehydrate sludge and that has a maximum total thermal input, excluding the heating value of the sludge itself, of 2,500 Btu/lb of sludge treated on a wet-weight basis.

"Small quantity handler of universal waste" means a universal waste handler (as defined in this section) who does not accumulate 11,000 pounds or more total of universal waste (batteries, thermostats, mercury-containing equipment, and lamps, calculated collectively) and/or who does not accumulate more than 2,200 pounds of lamps at any time.

"Solid acid waste" means a dangerous waste that exhibits the characteristic of low pH under the corrosivity tests of WAC 173-303-090 (6)(a)(iii).

"Solid waste management unit" or "SWMU" means any discernible location at a facility, as defined for the purposes of corrective action, where solid wastes have been placed at any time, irrespective of whether the location was intended for the management of solid or dangerous waste. Such locations include any area at a facility at which solid wastes, including spills, have been routinely and systematically released. Such units include regulated units as defined by chapter 173-303 WAC.

"Sorbent" means a material that is used to soak up free liquids by either adsorption or absorption, or both. *Sorb* means to either adsorb or absorb, or both.

"Special incinerator ash" means ash residues resulting from the operation of incineration or energy recovery facilities managing municipal solid waste from residential, commercial and industrial establishments, if the ash residues are designated as dangerous waste only by this chapter and not designated as hazardous waste by 40 CFR Part 261.

"Special waste" means any state-only dangerous waste that is solid only (nonliquid, nonaqueous, nongaseous), that is: Corrosive waste (WAC 173-303-090 (6)(b)(ii)), toxic waste that has Category D toxicity (WAC 173-303-100(5)), PCB waste (WAC 173-303-9904 under State Sources), or persistent waste that is not EHW (WAC 173-303-100(6)). Any solid waste that is regulated by the United States EPA as hazardous waste cannot be a special waste.

"Spent material" means any material that has been used and as a result of contamination can no longer serve the purpose for which it was produced without processing.

"Stabilization" and "solidification" means a technique that limits the solubility and mobility of dangerous waste constituents. Solidification immobilizes a waste through physical means and stabilization immobilizes the waste by bonding or chemically reacting with the stabilizing material.

"Staging pile" means an accumulation of solid, nonflowing, remediation waste that is not a containment building or a corrective action management unit and that is used for temporary storage of remediation waste for implementing corrective action under WAC 173-303-646 or other clean up activities.

"State-only dangerous waste" means a waste designated only by this chapter, chapter 173-303 WAC, and is not regulated as a hazardous waste under 40 CFR Part 261.

"State operator" means the person responsible for the overall operation of the state's extremely hazardous waste facility on the Hanford Reservation.

"Storage" means the holding of dangerous waste for a temporary period. "Accumulation" of dangerous waste, by the generator on the site of generation, is not storage as long as the generator complies with the applicable requirements of WAC 173-303-200 and 173-303-201.

"Sudden accident" means an unforeseen and unexpected occurrence which is not continuous or repeated in nature.

"Sump" means any pit or reservoir that meets the definition of tank and those troughs/trenches connected to it that serves to collect dangerous waste for transport to dangerous waste storage, treatment, or disposal facilities; except that as used in the landfill, surface impoundment, and waste pile rules, "sump" means any lined pit or reservoir that serves to collect liquids drained from a leachate collection and removal system or leak detection system for subsequent removal from the system.

"Surface impoundment" means a facility or part of a facility which is a natural topographic depression, man-made excavation, or diked area formed primarily of earthen materials (although it may be lined with man-made materials), and which is designed to hold an accumulation of liquid dangerous wastes or dangerous wastes containing free liquids. The term includes holding, storage, settling, and aeration pits, ponds, or lagoons, but does not include injection wells.

"Tank" means a stationary device designed to contain an accumulation of dangerous waste, and which is constructed primarily of nonearthen materials to provide structural support.

"Tank system" means a dangerous waste storage or treatment tank and its associated ancillary equipment and containment system.

"Temporary unit" means a tank or container that is not an accumulation unit under WAC 173-303-200 and that is used for temporary treatment or storage of remediation waste for

implementing corrective action under WAC 173-303-646 or other clean up activities.

"*TEQ*" means toxicity equivalence, the international method of relating the toxicity of various dioxin/furan congeners to the toxicity of 2,3,7,8-tetrachlorodibenzo-p-dioxin.

"Thermal treatment" means the treatment of dangerous waste in a device which uses elevated temperatures as the primary means to change the chemical, physical, or biological character or composition of the dangerous waste. Examples of thermal treatment processes are incineration, molten salt, pyrolysis, calcination, wet air oxidation, and microwave discharge.

"Thermostat" means a temperature control device that contains metallic mercury in an ampule attached to a bimetal sensing element, and mercury-containing ampules that have been removed from these temperature control devices in compliance with the requirements of WAC 173-303-573 (9)(b)(ii) or (20)(b)(ii).

"TLm_{96}" means the same as "Aquatic LC_{50}."

"Totally enclosed treatment facility" means a facility for treating dangerous waste which is directly connected to a production process and which prevents the release of dangerous waste or dangerous waste constituents into the environment during treatment.

"Toxic" means having the properties to cause or to significantly contribute to death, injury, or illness of man or wildlife.

"Transfer facility" means any transportation related facility including loading docks, parking areas, storage areas, buildings, piers, and other similar areas where shipments of dangerous waste are held, consolidated, or transferred within a period of ten days or less during the normal course of transportation.

"Transport vehicle" means a motor vehicle, water vessel, or rail car used for the transportation of cargo by any mode. Each cargo-carrying body (trailer, railroad freight car, steamship, etc.) is a separate transport vehicle.

"Transportation" means the movement of dangerous waste by air, rail, highway, or water.

"Transporter" means a person engaged in the off-site transportation of dangerous waste.

"Travel time" means the period of time necessary for a dangerous waste constituent released to the soil (either by accident or intent) to enter any on-site or off-site aquifer or water supply system.

"Treatability study" means a study in which a dangerous waste is subjected to a treatment process to determine: Whether the waste is amenable to the treatment process; what pretreatment (if any) is required; the optimal process conditions needed to achieve the desired treatment; the efficiency of a treatment process for a specific waste or wastes; or the characteristics and volumes of residuals from a particular treatment process. Also included in this definition for the purpose of the exemptions contained in WAC 173-303-071 (3)(r) and (s), are liner compatibility, corrosion, and other material compatibility studies and toxicological and health effects studies. A "treatability study" is not a means to commercially treat or dispose of dangerous waste.

"Treatment" means the physical, chemical, or biological processing of dangerous waste to make such wastes nondangerous or less dangerous, safer for transport, amenable for energy or material resource recovery, amenable for storage, or reduced in volume, with the exception of compacting, repackaging, and sorting as allowed under WAC 173-303-400(2) and 173-303-600(3).

"Treatment zone" means a soil area of the unsaturated zone of a land treatment unit within which dangerous wastes are degraded, transformed or immobilized.

"Triple rinsing" means the cleaning of containers in accordance with the requirements of WAC 173-303-160 (2)(b), containers.

"Underground injection" means the subsurface emplacement of fluids through a bored, drilled, or driven well, or through a dug well, where the depth of the dug well is greater than the largest surface dimension.

"Underground tank" means a device meeting the definition of "tank" in this section whose entire surface area is totally below the surface of and covered by the ground.

"Unexploded ordnance (UXO)" means military munitions that have been primed, fused, armed, or otherwise prepared for action, and have been fired, dropped, launched, projected, or placed in such a manner as to constitute a hazard to operations, installation, personnel, or material and remain unexploded either by malfunction, design, or any other cause.

"Unfit-for-use tank system" means a tank system that has been determined through an integrity assessment or other inspection to be no longer capable of storing or treating dangerous waste without posing a threat of release of dangerous waste to the environment.

"Universal waste" means any of the following dangerous wastes that are subject to the universal waste requirements of WAC 173-303-573:

Batteries as described in WAC 173-303-573(2);

Thermostats as described in WAC 173-303-573(3);

Lamps as described in WAC 173-303-573(5); and

Mercury-containing equipment as described in WAC 173-303-573(4).

"Universal waste handler":

Means:

A generator (as defined in this section) of universal waste; or

The owner or operator of a facility, including all contiguous property, that receives universal waste from other universal waste handlers, accumulates universal waste, and sends universal waste to another universal waste handler, to a destination facility, or to a foreign destination.

Does not mean:

A person who treats (except under the provisions of WAC 173-303-573 (9)(a), (b), or (c) or (20)(a), (b), or (c)) disposes of, or recycles universal waste; or

A person engaged in the off-site transportation of universal waste by air, rail, highway, or water, including a universal waste transfer facility.

"Universal waste transfer facility" means any transportation-related facility including loading docks, parking areas, storage areas and other similar areas where shipments of universal waste are held during the normal course of transportation for ten days or less.

"Universal waste transporter" means a person engaged in the off-site transportation of universal waste by air, rail, highway, or water.

"Unsaturated zone" means the zone between the land surface and the water table.

"Uppermost aquifer" means the geological formation nearest the natural ground surface that is capable of yielding ground water to wells or springs. It includes lower aquifers that are hydraulically interconnected with this aquifer within the facility property boundary.

"Used oil" means any oil that has been refined from crude oil, or any synthetic oil, that has been used and as a result of such use is contaminated by physical or chemical impurities.

"Vessel" includes every description of watercraft, used or capable of being used as a means of transportation on the water.

"Waste-derived fertilizer" means a commercial fertilizer that is derived in whole or in part from solid waste as defined in chapter 70.95 or 70.105 RCW, or rules adopted thereunder, but does not include fertilizers derived from biosolids or biosolid products regulated under chapter 70.95J RCW or wastewaters regulated under chapter 90.48 RCW.

"Wastewater treatment unit" means a device that:

Is part of a wastewater treatment facility which is subject to regulation under either:

Section 402 or section 307(b) of the Federal Clean Water Act; or

Chapter 90.48 RCW, State Water Pollution Control Act, provided that the waste treated at the facility is a state-only dangerous waste; and

Handles dangerous waste in the following manner:

Receives and treats or stores an influent wastewater; or

Generates and accumulates or treats or stores a wastewater treatment sludge; and

Meets the definition of tank or tank system in this section.

"Water or rail (bulk shipment)" means the bulk transportation of dangerous waste which is loaded or carried on board a vessel or railcar without containers or labels.

"Zone of engineering control" means an area under the control of the owner/operator that, upon detection of a dangerous waste release, can be readily cleaned up prior to the release of dangerous waste or dangerous constituents to ground water or surface water.

Any terms used in this chapter which have not been defined in this section have either the same meaning as set forth in Title 40 CFR Parts 260, 264, 270, and 124 or else have their standard, technical meaning.

As used in this chapter, words in the masculine gender also include the feminine and neuter genders, words in the singular include the plural, and words in the plural include the singular.

[Statutory Authority: Chapters 70.95N, 70.105, and 70.105D RCW. 07-21-013 (Order 07-05), § 173-303-040, filed 10/5/07, effective 11/5/07. Statutory Authority: Chapters 70.105, 70.105D, and 15.54 RCW and RCW 70.105.007. 04-24-065 (Order 03-10), § 173-303-040, filed 11/30/04, effective 1/1/05; 00-11-040 (Order 99-01), § 173-303-040, filed 5/10/00, effective 6/10/00. Statutory Authority: Chapters 70.105 and 70.105D RCW. 98-03-018 (Order 97-03), § 173-303-040, filed 1/12/98, effective 2/12/98; 95-22-008 (Order 94-30), § 173-303-040, filed 10/19/95, effective 11/19/95; 94-01-060 (Order 92-33), § 173-303-040, filed 12/8/93, effective 1/8/94. Statutory Authority: Chapters 70.105 and 70.105D RCW, 40 CFR Part 271.3 and RCRA § 3006 (42 U.S.C. 3251). 91-07-005 (Order 90-42), § 173-303-040, filed 3/7/91, effective 4/7/91. Statutory Authority: Chapter 70.105 RCW. 89-02-059 (Order 88-24), § 173-303-040, filed 1/4/89; 87-14-029 (Order DE-87-4), § 173-303-040, filed 6/26/87; 86-12-057 (Order DE-85-10), § 173-303-040, filed 6/3/86; 84-09-088 (Order DE 83-36), § 173-303-040, filed 4/18/84. Statutory Authority: RCW 70.95.260 and chapter 70.105 RCW. 82-05-023 (Order DE 81-33), § 173-303-040, filed 2/10/82. Formerly WAC 173-302-040.]

Reviser's note: The brackets and enclosed material in the text of the above section occurred in the copy filed by the agency.

WAC 173-303-071 Excluded categories of waste. (1) Purpose. Certain categories of waste have been excluded from the requirements of chapter 173-303 WAC, except for WAC 173-303-050, because they generally are not dangerous waste, are regulated under other state and federal programs, or are recycled in ways which do not threaten public health or the environment. WAC 173-303-071 describes these excluded categories of waste.

(2) Excluding wastes. Any persons who generate a common class of wastes and who seek to categorically exclude such class of wastes from the requirements of this chapter must comply with the applicable requirements of WAC 173-303-072. No waste class will be excluded if any of the wastes in the class are regulated as hazardous waste under 40 CFR Part 261.

(3) Exclusions. The following categories of waste are excluded from the requirements of chapter 173-303 WAC, except for WAC 173-303-050, 173-303-145, and 173-303-960, and as otherwise specified:

(a)(i) Domestic sewage; and

(ii) Any mixture of domestic sewage and other wastes that passes through a sewer system to a publicly owned treatment works (POTW) for treatment provided:

(A) The generator or owner/operator has obtained a state waste discharge permit issued by the department, a temporary permit obtained pursuant to RCW 90.48.200, or pretreatment permit (or written discharge authorization) from a local sewage utility delegated pretreatment program responsibilities pursuant to RCW 90.48.165;

(B) The waste discharge is specifically authorized in a state waste discharge permit, pretreatment permit or written discharge authorization, or in the case of a temporary permit the waste is accurately described in the permit application;

(C) The waste discharge is not prohibited under 40 CFR Part 403.5; and

(D) The waste prior to mixing with domestic sewage must not exhibit dangerous waste characteristics for ignitability, corrosivity, reactivity, or toxicity as defined in WAC 173-303-090, and must not meet the dangerous waste criteria for toxic dangerous waste or persistent dangerous waste under WAC 173-303-100, unless the waste is treatable in the publicly owned treatment works (POTW) where it will be received. This exclusion does not apply to the generation, treatment, storage, recycling, or other management of dangerous wastes prior to discharge into the sanitary sewage system;

(b) Industrial wastewater discharges that are point-source discharges subject to regulation under Section 402 of the Clean Water Act. This exclusion does not apply to the collection, storage, or treatment of industrial waste-waters prior to discharge, nor to sludges that are generated during industrial wastewater treatment. Owners or operators of certain wastewater treatment facilities managing dangerous

wastes may qualify for a permit-by-rule pursuant to WAC 173-303-802(5);

(c) Household wastes, including household waste that has been collected, transported, stored, or disposed. Wastes that are residues from or are generated by the management of household wastes (e.g., leachate, ash from burning of refuse-derived fuel) are not excluded by this provision. "Household wastes" means any waste material (including, but not limited to, garbage, trash, and sanitary wastes in septic tanks) derived from households (including single and multiple residences, hotels and motels, bunkhouses, ranger stations, crew quarters, campgrounds, picnic grounds, and day-use recreation areas). A resource recovery facility managing municipal solid waste will not be deemed to be treating, storing, disposing of, or otherwise managing dangerous wastes for the purposes of regulation under this chapter, if such facility:

(i) Receives and burns only:

(A) Household waste (from single and multiple dwellings, hotels, motels, and other residential sources); and

(B) Solid waste from commercial or industrial sources that does not contain dangerous waste; and

(ii) Such facility does not accept dangerous wastes and the owner or operator of such facility has established contractual requirements or other appropriate notification or inspection procedures to assure that dangerous wastes are not received at or burned in such facility;

(d) Agricultural crops and animal manures which are returned to the soil as fertilizers;

(e) Asphaltic materials designated only for the presence of PAHs by WAC 173-303-100(6). For the purposes of this exclusion, asphaltic materials means materials that have been used for structural and construction purposes (e.g., roads, dikes, paving) that were produced from mixtures of oil and sand, gravel, ash or similar substances;

(f) Roofing tars and shingles, except that these wastes are not excluded if mixed with wastes listed in WAC 173-303-081 or 173-303-082, or if they exhibit any of the characteristics specified in WAC 173-303-090;

(g) Treated wood waste and wood products including:

(i) Arsenical-treated wood that fails the test for the toxicity characteristic of WAC 173-303-090(8) (dangerous waste numbers D004 through D017 only) or that fails any state criteria, if the waste is generated by persons who utilize the arsenical-treated wood for the materials' intended end use. Intended end use means the wood product must have been used in typical treated wood applications (for example, fence posts, decking, poles, and timbers).

(ii) Wood treated with other preservatives provided such treated wood and wood waste (for example, sawdust and shavings) are, within one hundred eighty days after becoming waste:

(A) Disposed of at a landfill that is permitted in accordance with chapter 173-350 WAC, Solid waste handling standards, or chapter 173-351 WAC, criteria for municipal solid waste landfills, and provided that such wood is neither a listed waste under WAC 173-303-9903 and 173-303-9904 nor a TCLP waste under WAC 173-303-090(8); or

(B) Sent to a facility that will legitimately treat or recycle the treated wood waste, and manage any residue in accordance with that state's dangerous waste regulations; or

(C) Sent off-site to a permitted TSD facility or placed in an on-site facility which is permitted by the department under WAC 173-303-800 through 173-303-845. In addition, creosote-treated wood is excluded when burned for energy recovery in an industrial furnace or boiler that has an order of approval issued pursuant to RCW 70.94.152 by ecology or a local air pollution control authority to burn creosote treated wood.

(h) Irrigation return flows;

(i) Reserve;

(j) Mining overburden returned to the mining site;

(k) Polychlorinated biphenyl (PCB) wastes:

(i) PCB wastes whose disposal is regulated by EPA under 40 CFR 761.60 (Toxic Substances Control Act) and that are dangerous either because:

(A) They fail the test for toxicity characteristic (WAC 173-303-090(8), Dangerous waste codes D018 through D043 only); or

(B) Because they are designated only by this chapter and not designated by 40 CFR Part 261, are exempt from regulation under this chapter except for WAC 173-303-505 through 173-303-525, 173-303-960, those sections specified in subsection (3) of this section, and 40 CFR Part 266;

(ii) Wastes that would be designated as dangerous waste under this chapter solely because they are listed as WPCB under WAC 173-303-9904 when such wastes are stored and disposed in a manner equivalent to the requirements of 40 CFR Part 761 Subpart D for PCB concentrations of 50 ppm or greater.

(l) Samples:

(i) Except as provided in (l)(ii) of this subsection, a sample of solid waste or a sample of water, soil, or air, which is collected for the sole purpose of testing to determine its characteristics or composition, is not subject to any requirements of this chapter, when:

(A) The sample is being transported to a lab for testing or being transported to the sample collector after testing; or

(B) The sample is being stored by the sample collector before transport, by the laboratory before testing, or by the laboratory after testing prior to return to the sample collector; or

(C) The sample is being stored temporarily in the laboratory after testing for a specific purpose (for example, until conclusion of a court case or enforcement action).

(ii) In order to qualify for the exemptions in (l)(i) of this subsection, a sample collector shipping samples to a laboratory and a laboratory returning samples to a sample collector must:

(A) Comply with United States Department of Transportation (DOT), United States Postal Service (USPS), or any other applicable shipping requirements; or

(B) Comply with the following requirements if the sample collector determines that DOT or USPS, or other shipping requirements do not apply:

(I) Assure that the following information accompanies the sample:

(AA) The sample collector's name, mailing address, and telephone number;

(BB) The laboratory's name, mailing address, and telephone number;

(CC) The quantity of the sample;

(DD) The date of shipment;

(EE) A description of the sample; and

(II) Package the sample so that it does not leak, spill, or vaporize from its packaging.

(iii) This exemption does not apply if the laboratory determines that the waste is dangerous but the laboratory is no longer meeting any of the conditions stated in (l)(i) of this subsection;

(m) Reserve;

(n) Dangerous waste generated in a product or raw material storage tank, a product or raw material transport vehicle or vessel, a product or raw material pipeline, or in a manufacturing process unit or an associated nonwaste-treatment-manufacturing unit until it exits the unit in which it was generated. This exclusion does not apply to surface impoundments, nor does it apply if the dangerous waste remains in the unit more than ninety days after the unit ceases to be operated for manufacturing, or for storage or transportation of product or raw materials;

(o) Waste pickle liquor sludge generated by lime stabilization of spent pickle liquor from the iron and steel industry (NAICS codes 331111 and 332111), except that these wastes are not excluded if they exhibit one or more of the dangerous waste criteria (WAC 173-303-100) or characteristics (WAC 173-303-090);

(p) Wastes from burning any of the materials exempted from regulation by WAC 173-303-120 (2)(a)(vii) and (viii). These wastes are not excluded if they exhibit one or more of the dangerous waste characteristics or criteria;

(q) As of January 1, 1987, secondary materials that are reclaimed and returned to the original process or processes in which they were generated where they are reused in the production process provided:

(i) Only tank storage is involved, and the entire process through completion of reclamation is closed by being entirely connected with pipes or other comparable enclosed means of conveyance;

(ii) Reclamation does not involve controlled flame combustion (such as occurs in boilers, industrial furnaces, or incinerators);

(iii) The secondary materials are never accumulated in such tanks for over twelve months without being reclaimed;

(iv) The reclaimed material is not used to produce a fuel, or used to produce products that are used in a manner constituting disposal; and

(v) A generator complies with the requirements of chapter 173-303 WAC for any residues (e.g., sludges, filters, etc.) produced from the collection, reclamation, and reuse of the secondary materials.

(r) Treatability study samples.

(i) Except as provided in (r)(ii) of this subsection, persons who generate or collect samples for the purpose of conducting treatability studies as defined in WAC 173-303-040 are not subject to the requirements of WAC 173-303-180, 173-303-190, and 173-303-200 (1)(a), nor are such samples included in the quantity determinations of WAC 173-303-070 (7) and (8) and 173-303-201 when:

(A) The sample is being collected and prepared for transportation by the generator or sample collector; or

(B) The sample is being accumulated or stored by the generator or sample collector prior to transportation to a laboratory or testing facility; or

(C) The sample is being transported to the laboratory or testing facility for the purpose of conducting a treatability study; or

(D) The sample or waste residue is being transported back to the original generator from the laboratory or testing facility.

(ii) The exemption in (r)(i) of this subsection is applicable to samples of dangerous waste being collected and shipped for the purpose of conducting treatability studies provided that:

(A) The generator or sample collector uses (in "treatability studies") no more than 10,000 kg of media contaminated with nonacute dangerous waste, 1000 kg of nonacute dangerous waste other than contaminated media, 1 kg of acutely hazardous waste, 2500 kg of media contaminated with acutely hazardous waste for each process being evaluated for each generated waste stream; and

(B) The mass of each sample shipment does not exceed 10,000 kg; the 10,000 kg quantity may be all media contaminated with nonacute dangerous waste or may include 2500 kg of media contaminated with acute hazardous waste, 1000 kg of dangerous waste, and 1 kg of acutely hazardous waste; and

(C) The sample must be packaged so that it will not leak, spill, or vaporize from its packaging during shipment and the requirements of (r)(ii)(C)(I) or (II) of this subsection are met.

(I) The transportation of each sample shipment complies with United States Department of Transportation (DOT), United States Postal Service (USPS), or any other applicable shipping requirements; or

(II) If the DOT, USPS, or other shipping requirements do not apply to the shipment of the sample, the following information must accompany the sample:

(AA) The name, mailing address, and telephone number of the originator of the sample;

(BB) The name, address, and telephone number of the laboratory or testing facility that will perform the treatability study;

(CC) The quantity of the sample;

(DD) The date of shipment; and

(EE) A description of the sample, including its dangerous waste number.

(D) The sample is shipped, within ninety days of being generated or of being taken from a stream of previously generated waste, to a laboratory or testing facility which is exempt under (s) of this subsection or has an appropriate final facility permit or interim status; and

(E) The generator or sample collector maintains the following records for a period ending three years after completion of the treatability study:

(I) Copies of the shipping documents;

(II) A copy of the contract with the facility conducting the treatability study;

(III) Documentation showing:

(AA) The amount of waste shipped under this exemption;

(BB) The name, address, and EPA/state identification number of the laboratory or testing facility that received the waste;

(CC) The date the shipment was made; and

(DD) Whether or not unused samples and residues were returned to the generator.

(F) The generator reports the information required under (r)(ii)(E)(III) of this subsection in its annual report.

(iii) The department may grant requests, on a case-by-case basis, for up to an additional two years for treatability studies involving bioremediation. The department may grant requests on a case-by-case basis for quantity limits in excess of those specified in (r)(ii)(A) and (B) of this subsection and (s)(iv) of this subsection, for up to an additional 5000 kg of media contaminated with nonacute dangerous waste, 500 kg of nonacute dangerous waste, 1 kg of acute hazardous waste, and 2500 kg of media contaminated with acute hazardous waste or for up to an additional 10,000 kg of wastes regulated only by this chapter and not regulated by 40 CFR Part 261, to conduct further treatability study evaluation:

(A) In response to requests for authorization to ship, store and conduct treatability studies on additional quantities in advance of commencing treatability studies. Factors to be considered in reviewing such requests include the nature of the technology, the type of process, (e.g., batch versus continuous), size of the unit undergoing testing (particularly in relation to scale-up considerations), the time/quantity of material required to reach steady state operating conditions, or test design considerations such as mass balance calculations.

(B) In response to requests for authorization to ship, store, and conduct treatability studies on additional quantities after initiation or completion of initial treatability studies, when:

There has been an equipment or mechanical failure during the conduct of a treatability study; there is a need to verify the results of previously conducted treatability study; there is a need to study and analyze alternative techniques within a previously evaluated treatment process; or there is a need to do further evaluation of an ongoing treatability study to determine final specifications for treatment.

(C) The additional quantities and time frames allowed in (r)(iii)(A) and (B) of this subsection are subject to all the provisions in (r)(i) and (r)(ii)(C) through (F) of this subsection. The generator or sample collector must apply to the department where the sample is collected and provide in writing the following information:

(I) The reason the generator or sample collector requires additional time or quantity of sample for the treatability study evaluation and the additional time or quantity needed;

(II) Documentation accounting for all samples of dangerous waste from the waste stream which have been sent for or undergone treatability studies including the date each previous sample from the waste stream was shipped, the quantity of each previous shipment, the laboratory or testing facility to which it was shipped, what treatability study processes were conducted on each sample shipped, and the available results of each treatability study;

(III) A description of the technical modifications or change in specifications which will be evaluated and the expected results;

(IV) If such further study is being required due to equipment or mechanical failure, the applicant must include information regarding the reason for the failure or breakdown and also include what procedures or equipment improvements have been made to protect against further breakdowns; and

(V) Such other information that the department considers necessary.

(s) Samples undergoing treatability studies at laboratories and testing facilities. Samples undergoing treatability studies and the laboratory or testing facility conducting such treatability studies (to the extent such facilities are not otherwise subject to chapter 70.105 RCW) are not subject to the requirements of this chapter, except WAC 173-303-050, 173-303-145, and 173-303-960 provided that the conditions of (s)(i) through (xiii) of this subsection are met. A mobile treatment unit (MTU) may qualify as a testing facility subject to (s)(i) through (xiii) of this subsection. Where a group of MTUs are located at the same site, the limitations specified in (s)(i) through (xiii) of this subsection apply to the entire group of MTUs collectively as if the group were one MTU.

(i) No less than forty-five days before conducting treatability studies the laboratory or testing facility notifies the department in writing that it intends to conduct treatability studies under this subsection.

(ii) The laboratory or testing facility conducting the treatability study has an EPA/state identification number.

(iii) No more than a total of 10,000 kg of "as received" media contaminated with nonacute dangerous waste, 2500 kg of media contaminated with acute hazardous waste or 250 kg of other "as received" dangerous waste is subject to initiation of treatment in all treatability studies in any single day. "As received" waste refers to the waste as received in the shipment from the generator or sample collector.

(iv) The quantity of "as received" dangerous waste stored at the facility for the purpose of evaluation in treatability studies does not exceed 10,000 kg, the total of which can include 10,000 kg of media contaminated with nonacute dangerous waste, 2500 kg of media contaminated with acute hazardous waste, 1000 kg of nonacute dangerous wastes other than contaminated media, and 1 kg of acutely hazardous waste. This quantity limitation does not include treatment materials (including nondangerous solid waste) added to "as received" dangerous waste.

(v) No more than ninety days have elapsed since the treatability study for the sample was completed, or no more than one year (two years for treatability studies involving bioremediation) has elapsed since the generator or sample collector shipped the sample to the laboratory or testing facility, whichever date first occurs. Up to 500 kg of treated material from a particular waste stream from treatability studies may be archived for future evaluation up to five years from the date of initial receipt. Quantities of materials archived are counted against the total storage limit for the facility.

(vi) The treatability study does not involve the placement of dangerous waste on the land or open burning of dangerous waste.

(vii) The laboratory or testing facility maintains records for three years following completion of each study that show compliance with the treatment rate limits and the storage time and quantity limits. The following specific information must be included for each treatability study conducted:

(A) The name, address, and EPA/state identification number of the generator or sample collector of each waste sample;

(B) The date the shipment was received;

(C) The quantity of waste accepted;

(D) The quantity of "as received" waste in storage each day;

(E) The date the treatment study was initiated and the amount of "as received" waste introduced to treatment each day;

(F) The date the treatability study was concluded;

(G) The date any unused sample or residues generated from the treatability study were returned to the generator or sample collector or, if sent to a designated TSD facility, the name of the TSD facility and its EPA/state identification number.

(viii) The laboratory or testing facility keeps, on-site, a copy of the treatability study contract and all shipping papers associated with the transport of treatability study samples to and from the facility for a period ending three years from the completion date of each treatability study.

(ix) The laboratory or testing facility prepares and submits a report to the department by March 15 of each year that estimates the number of studies and the amount of waste expected to be used in treatability studies during the current year, and includes the following information for the previous calendar year:

(A) The name, address, and EPA/state identification number of the laboratory or testing facility conducting the treatability studies;

(B) The types (by process) of treatability studies conducted;

(C) The names and addresses of persons for whom studies have been conducted (including their EPA/state identification numbers);

(D) The total quantity of waste in storage each day;

(E) The quantity and types of waste subjected to treatability studies;

(F) When each treatability study was conducted;

(G) The final disposition of residues and unused sample from each treatability study.

(x) The laboratory or testing facility determines whether any unused sample or residues generated by the treatability study are dangerous waste under WAC 173-303-070 and if so, are subject to the requirements of this chapter, unless the residues and unused samples are returned to the sample originator under the exemption in (r) of this subsection.

(xi) The laboratory or testing facility notifies the department by letter when it is no longer planning to conduct any treatability studies at the site.

(xii) The date the sample was received, or if the treatability study has been completed, the date of the treatability study, is marked and clearly visible for inspection on each container.

(xiii) While being held on site, each container and tank is labeled or marked clearly with the words "dangerous waste" or "hazardous waste." Each container or tank must also be marked with a label or sign which identifies the major risk(s) associated with the waste in the container or tank for employees, emergency response personnel and the public.

Note: If there is already a system in use that performs this function in accordance with local, state, or federal regulations, then such system will be adequate.

(t) Petroleum-contaminated media and debris that fail the test for the toxicity characteristic of WAC 173-303-090(8) (dangerous waste numbers D018 through D043 only) and are subject to the corrective action regulations under 40 CFR Part 280.

(u) Special incinerator ash (as defined in WAC 173-303-040).

(v) Wood ash that would designate solely for corrosivity by WAC 173-303-090 (6)(a)(iii). For the purpose of this exclusion, wood ash means ash residue and emission control dust generated from the combustion of untreated wood, wood treated solely with creosote, and untreated wood fiber materials including, but not limited to, wood chips, saw dust, tree stumps, paper, cardboard, residuals from waste fiber recycling, deinking rejects, and associated wastewater treatment solids. This exclusion allows for the use of auxiliary fuels including, but not limited to, oils, gas, coal, and other fossil fuels in the combustion process.

(w)(i) Spent wood preserving solutions that have been reclaimed and are reused for their original intended purpose; and

(ii) Wastewaters from the wood preserving process that have been reclaimed and are reused to treat wood.

(iii) Prior to reuse, the wood preserving wastewaters and spent wood preserving solutions described in (w)(i) and (ii) of this subsection, so long as they meet all of the following conditions:

(A) The wood preserving wastewaters and spent wood preserving solutions are reused on-site at water borne plants in the production process for their original intended purpose;

(B) Prior to reuse, the wastewaters and spent wood preserving solutions are managed to prevent release to either land or ground water or both;

(C) Any unit used to manage wastewaters and/or spent wood preserving solutions prior to reuse can be visually or otherwise determined to prevent such releases;

(D) Any drip pad used to manage the wastewaters and/or spent wood preserving solutions prior to reuse complies with the standards in Part 265, Subpart W which is incorporated by reference at WAC 173-303-400 (3)(a), regardless of whether the plant generates a total of less than 220 pounds/month of dangerous waste; and

(E) Prior to operating pursuant to this exclusion, the plant owner or operator submits to the department a one-time notification stating that the plant intends to claim the exclusion, giving the date on which the plant intends to begin operating under the exclusion, and containing the following language: "I have read the applicable regulation establishing an exclusion for wood preserving wastewaters and spent wood preserving solutions and understand it requires me to comply at all times with the conditions set out in the regulation." The plant must maintain a copy of that document in its on-site records for a period of no less than three years from the date specified in the notice. The exclusion applies only so long as the plant meets all of the conditions. If the plant goes out of compliance with any condition, it may apply to the department for reinstatement. The department may reinstate the exclusion upon finding that the plant has returned to compliance with all conditions and that violations are not likely to recur.

(F) Additional reports.

(I) Upon determination by the department that the storage of wood preserving wastewaters and spent wood preserving solutions in tanks and/or containers poses a threat to public health or the environment, the department may require the owner/operator to provide additional information regarding the integrity of structures and equipment used to store wood preserving wastewaters and spent wood preserving solutions. This authority applies to tanks and secondary containment systems used to store wood preserving wastewaters and spent wood preserving solutions in tanks and containers. The department's determination of a threat to public health or the environment may be based upon observations of factors that would contribute to spills or releases of wood preserving wastewaters and spent wood preserving solutions or the generation of hazardous by-products. Such observations may include, but are not limited to, leaks, severe corrosion, structural defects or deterioration (cracks, gaps, separation of joints), inability to completely inspect tanks or structures, or concerns about the age or design specification of tanks.

(II) When required by the department, a qualified, independent professional engineer registered to practice in Washington state must perform the assessment of the integrity of tanks or secondary containment systems.

(III) Requirement for facility repairs and improvements. If, upon evaluation of information obtained by the department under (w)(iii)(F)(I) of this subsection, it is determined that repairs or structural improvements are necessary in order to eliminate threats, the department may require the owner/operator to discontinue the use of the tank system or container storage unit and remove the wood preserving wastewaters and spent wood preserving solutions until such repairs or improvements are completed and approved by the department.

(x) Nonwastewater splash condenser dross residue from the treatment of K061 in high temperature metals recovery units, provided it is shipped in drums (if shipped) and not land disposed before recovery.

(y) Used oil filters that are recycled in accordance with WAC 173-303-120, as used oil and scrap metal.

(z) Used oil re-refining distillation bottoms that are used as feedstock to manufacture asphalt products.

(aa) Wastes that fail the test for the toxicity characteristic in WAC 173-303-090 because chromium is present or are listed in WAC 173-303-081 or 173-303-082 due to the presence of chromium. The waste must not designate for any other characteristic under WAC 173-303-090, for any of the criteria specified in WAC 173-303-100, and must not be listed in WAC 173-303-081 or 173-303-082 due to the presence of any constituent from WAC 173-303-9905 other than chromium. The waste generator must be able to demonstrate that:

(i) The chromium in the waste is exclusively (or nearly exclusively) trivalent chromium; and

(ii) The waste is generated from an industrial process that uses trivalent chromium exclusively (or nearly exclusively) and the process does not generate hexavalent chromium; and

(iii) The waste is typically and frequently managed in nonoxidizing environments.

(bb)(i) Nonwastewater residues, such as slag, resulting from high temperature metals recovery (HTMR) processing of K061, K062 or F006 waste, in units identified as rotary kilns, flame reactors, electric furnaces, plasma arc furnaces, slag reactors, rotary hearth furnace/electric furnace combinations or industrial furnaces (as defined in WAC 173-303-040 - blast furnaces, smelting, melting and refining furnaces, and other devices the department may add to the list - of the definition for "industrial furnace"), that are disposed in subtitle D units, provided that these residues meet the generic exclusion levels identified in the tables in this paragraph for all constituents, and exhibit no characteristics of dangerous waste. Testing requirements must be incorporated in a facility's waste analysis plan or a generator's self-implementing waste analysis plan; at a minimum, composite samples of residues must be collected and analyzed quarterly and/or when the process or operation generating the waste changes. Persons claiming this exclusion in an enforcement action will have the burden of proving by clear and convincing evidence that the material meets all of the exclusion requirements.

Constituent	Maximum for any single composite sample-TCLP (mg/l)
Generic exclusion levels for K061 and K062 nonwastewater HTMR residues	
Antimony	0.10
Arsenic	0.50
Barium	7.6
Beryllium	0.010
Cadmium	0.050
Chromium (total)	0.33
(2)Lead	0.15
Mercury	0.009
Nickel	1.0
Selenium	0.16
Silver	0.30
Thallium	0.020
Zinc	70
Generic exclusion levels for F006 nonwastewater HTMR residues	
Antimony	0.10
Arsenic	0.50
Barium	7.6
Beryllium	0.010
Cadmium	0.050
Chromium (total)	0.33
Cyanide (total) (mg/kg)	1.8
Lead	0.15
Mercury	0.009
Nickel	1.0
Selenium	0.16
Silver	0.30
Thallium	0.020
Zinc	70

(ii) A one-time notification and certification must be placed in the facility's files and sent to the department for K061, K062 or F006 HTMR residues that meet the generic exclusion levels for all constituents and do not exhibit any characteristics that are sent to subtitle D units. The notification and certification that is placed in the generator's or treater's files must be updated if the process or operation gen-

erating the waste changes and/or if the subtitle D unit receiving the waste changes. However, the generator or treater need only notify the department on an annual basis if such changes occur. Such notification and certification should be sent to the department by the end of the calendar year, but no later than December 31. The notification must include the following information: The name and address of the subtitle D unit receiving the waste shipments; the dangerous waste number(s) and treatability group(s) at the initial point of generation; and, the treatment standards applicable to the waste at the initial point of generation. The certification must be signed by an authorized representative and must state as follows: "I certify under penalty of law that the generic exclusion levels for all constituents have been met without impermissible dilution and that no characteristic of dangerous waste is exhibited. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment." These wastes are not excluded if they exhibit one or more of the dangerous waste characteristics (WAC 173-303-090) or criteria (WAC 173-303-100).

(cc)(i) Oil-bearing hazardous secondary materials (that is, sludges, by-products, or spent materials) that are generated at a petroleum refinery (NAICS code 324110) and are inserted into the petroleum refining process (NAICS code 324110 - including, but not limited to, distillation, catalytic cracking, fractionation, or thermal cracking units (that is, cokers)) unless the material is placed on the land, or speculatively accumulated before being so recycled. Materials inserted into thermal cracking units are excluded under this paragraph: Provided, That the coke product also does not exhibit a characteristic of hazardous waste. Oil-bearing hazardous secondary materials may be inserted into the same petroleum refinery where they are generated, or sent directly to another petroleum refinery, and still be excluded under this provision. Except as provided in (cc)(ii) of this subsection, oil-bearing hazardous secondary materials generated elsewhere in the petroleum industry (that is, from sources other than petroleum refineries) are not excluded under this section. Residuals generated from processing or recycling materials excluded under this paragraph, where such materials as generated would have otherwise met a listing under WAC 173-303-081 and 173-303-082, are designated as F037 listed wastes when disposed of or intended for disposal.

(ii) Recovered oil that is recycled in the same manner and with the same conditions as described in (cc)(i) of this subsection. Recovered oil is oil that has been reclaimed from secondary materials (including wastewater) generated from normal petroleum industry practices, including refining, exploration and production, bulk storage, and transportation incident thereto (NAICS codes 211111, 211112, 213111, 213112, 541360, 237120, 238910, 324110, 486110, 486910, 486210, 221210, 486210, 487110, 488210, 488999, 722310, 424710, 454311, 454312, 424720, 425110, 425120). Recovered oil does not include oil-bearing hazardous wastes listed in WAC 173-303-081 and 173-303-082; however, oil recovered from such wastes may be considered recovered oil. Recovered oil does not include used oil as defined in WAC 173-303-040.

(dd) Dangerous waste Nos. K060, K087, K141, K142, K143, K144, K145, K147, and K148, and any wastes from the coke by-products processes that are dangerous only because they exhibit the toxicity characteristic (TC) specified in WAC 173-303-090(8) when, subsequent to generation, these materials are recycled to coke ovens, to the tar recovery process as a feedstock to produce coal tar, or mixed with coal tar prior to the tar's sale or refining. This exclusion is conditioned on there being no land disposal of the wastes from the point they are generated to the point they are recycled to coke ovens or tar recovery or refining processes, or mixed with coal tar.

(ee) Biological treatment sludge from the treatment of one of the following wastes listed in WAC 173-303-9904 - organic waste (including heavy ends, still bottoms, light ends, spent solvents, filtrates, and decantates) from the production of carbamates and carbamoyl oximes (Dangerous Waste No. K156), and wastewaters from the production of carbamates and carbamoyl oximes (Dangerous Waste No. K157) unless it exhibits one or more of the characteristics or criteria of dangerous waste.

(ff) Excluded scrap metal (processed scrap metal, unprocessed home scrap metal, and unprocessed prompt scrap metal) being recycled.

(gg) Shredded circuit boards being recycled: Provided, That they are:

(i) Stored in containers sufficient to prevent a release to the environment prior to recovery; and

(ii) Free of mercury switches, mercury relays and nickel-cadmium batteries and lithium batteries.

(hh) Petrochemical recovered oil from an associated organic chemical manufacturing facility, where the oil is to be inserted into the petroleum refining process (NAICS code 324110) along with normal petroleum refinery process streams, provided:

(i) The oil is hazardous only because it exhibits the characteristic of ignitability (as defined in WAC 173-303-090(5) and/or toxicity for benzene (WAC 173-303-090(8), waste code D018); and

(ii) The oil generated by the organic chemical manufacturing facility is not placed on the land, or speculatively accumulated before being recycled into the petroleum refining process.

An "associated organic chemical manufacturing facility" is a facility where the primary NAICS code is 325110, 325120, 325188, 325192, 325193, or 325199, but where operations may also include NAICS codes 325211, 325212, 325110, 325132, 325192; and is physically colocated with a petroleum refinery; and where the petroleum refinery to which the oil being recycled is returned also provides hydrocarbon feedstocks to the organic chemical manufacturing facility. "Petrochemical recovered oil" is oil that has been reclaimed from secondary materials (that is, sludges, by-products, or spent materials, including wastewater) from normal organic chemical manufacturing operations, as well as oil recovered from organic chemical manufacturing processes.

(ii) Spent caustic solutions from petroleum refining liquid treating processes used as a feedstock to produce cresylic or naphthenic acid unless the material is placed on the land, or accumulated speculatively as defined in WAC 173-303-016(5).

(jj) Catalyst inert support media separated from one of the following wastes listed in WAC 173-303-9904 Specific Sources - Spent hydrotreating catalyst (EPA Hazardous Waste No. K171), and Spent hydrorefining catalyst (EPA Hazardous Waste No. K172). These wastes are not excluded if they exhibit one or more of the dangerous waste characteristics or criteria.

(kk) Leachate or gas condensate collected from landfills where certain solid wastes have been disposed: Provided, That:

(i) The solid wastes disposed would meet one or more of the listing descriptions for Hazardous Waste Codes K169, K170, K171, K172, K174, K175, K176, K177, and K178 if these wastes had been generated after the effective date of the listing;

(ii) The solid wastes described in (kk)(i) of this subsection were disposed prior to the effective date of the listing;

(iii) The leachate or gas condensate does not exhibit any characteristic or criteria of dangerous waste nor is derived from any other listed hazardous waste;

(iv) Discharge of the leachate or gas condensate, including leachate or gas condensate transferred from the landfill to a POTW by truck, rail, or dedicated pipe, is subject to regulation under sections 307(b) or 402 of the Clean Water Act.

(v) As of February 13, 2001, leachate or gas condensate derived from K169 - K172 is no longer exempt if it is stored or managed in a surface impoundment prior to discharge. After November 21, 2003, leachate or gas condensate derived from K176, K177, and K178 will no longer be exempt if it is stored or managed in a surface impoundment prior to discharge. There is one exception: If the surface impoundment is used to temporarily store leachate or gas condensate in response to an emergency situation (for example, shutdown of wastewater treatment system): Provided, That the impoundment has a double liner, and: Provided further, That the leachate or gas condensate is removed from the impoundment and continues to be managed in compliance with the conditions of this paragraph after the emergency ends.

(ll) Dredged material. Dredged material as defined in 40 CFR 232.2 that is subject to:

(i) The requirements of a permit that has been issued by the U.S. Army Corps of Engineers or an approved state under section 404 of the Federal Water Pollution Control Act (33 U.S.C. 1344);

(ii) The requirements of a permit that has been issued by the U.S. Army Corps of Engineers under section 103 of the Marine Protection, Research, and Sanctuaries Act of 1972 (33 U.S.C. 1413); or

(iii) In the case of a U.S. Army Corps of Engineers civil works project, the administrative equivalent of the permits referred to in (ll)(i) and (ii) of this subsection, as provided for in U.S. Army Corps of Engineers regulations, including, for example, 33 CFR 336.1, 336.2 and 337.3.

(mm) Condensates derived from the overhead gases from kraft mill steam strippers that are used to comply with 40 CFR 63.446(e). The exemption applies only to combustion at the mill generating the condensates.

(nn)(i) Controlled substances, legend drugs, and over-the-counter drugs that are state-only dangerous wastes.

(A) Controlled substances as defined and regulated by chapter 69.50 RCW (Schedule I through V);

(B) Legend drugs as defined and regulated by chapter 69.41 RCW; and

(C) Over-the-counter drugs as defined and regulated by chapter 69.60 RCW.

(ii) Controlled substances, legend drugs, and over-the-counter drugs that are held in the custody of law enforcement agencies or possessed by any licensee as defined and regulated by chapter 69.50 RCW or Title 18 RCW and authorized to possess drugs within the state of Washington are excluded, provided the drugs are disposed of by incineration in a controlled combustion unit with a heat input rate greater than 250 million British thermal units/hour, a combustion zone temperature greater than 1500 degrees Fahrenheit, or a facility permitted to incinerate municipal solid waste.

(iii) For the purposes of this exclusion the term "drugs" means:

(A) Articles recognized in the official United States pharmacopoeia or the official homeopathic pharmacopoeia of the United States;

(B) Substances intended for use in the diagnosis, cure, mitigation, treatment, or prevention of disease in man or other animals; or

(C) Substances (other than food) intended to affect the structure or any function of the body of man or other animals, as defined in RCW 18.64.011(3). (Note: RCW 18.64.011 (3)(d) is intentionally not included in the definition of drugs for this exclusion.)

(iv) When possessed by any licensee the term drugs used in this exclusion means finished drug products.

(oo) Cathode ray tubes (CRTs) and glass removed from CRTs:

(i) Prior to processing: These materials are not solid wastes if they are destined for recycling and if they meet the following requirements:

(A) Storage. CRTs must be either:

(I) Stored in a building with a roof, floor, and walls; or

(II) Placed in a container (that is, a package or a vehicle) that is constructed, filled, and closed to minimize releases to the environment of CRT glass (including fine solid materials).

(B) Labeling. Each container in which the CRT is contained must be labeled or marked clearly with one of the following phrases: "Used cathode ray tube(s) - contains leaded glass" or "leaded glass from televisions or computers." It must also be labeled: "Do not mix with other glass materials."

(C) Transportation. CRTs must be transported in a container meeting the requirements of (oo)(i)(A)(II) and (B) of this subsection.

(D) Speculative accumulation and use constituting disposal. CRTs are subject to the limitations on speculative accumulation as defined in WAC 173-303-016 (5)(d). If they are used in a manner constituting disposal, they must comply with the applicable requirements of WAC 173-303-505 instead of the requirements of this section.

(E) Exports. In addition to the applicable conditions specified in (oo)(i)(A) through (D) of this subsection, exporters of CRTs must comply with the following requirements:

(I) Notify EPA of an intended export before the CRTs are scheduled to leave the United States. A complete notification should be submitted sixty days before the initial ship-

ment is intended to be shipped off-site. This notification may cover export activities extending over a twelve-month or lesser period. The notification must be in writing, signed by the exporter, and include the following information:

• Name, mailing address, telephone number and EPA/state ID number (if applicable) of the exporter of the CRTs.

• The estimated frequency or rate at which the CRTs are to be exported and the period of time over which they are to be exported.

• The estimated total quantity of CRTs specified in kilograms.

• All points of entry to and departure from each foreign country through which the CRTs will pass.

• A description of the means by which each shipment of the CRTs will be transported (for example, mode of transportation vehicle (air, highway, rail, water, etc.), type(s) of container (drums, boxes, tanks, etc.)).

• The name and address of the recycler and any alternate recycler.

• A description of the manner in which the CRTs will be recycled in the foreign country that will be receiving the CRTs.

• The name of any transit country through which the CRTs will be sent and a description of the approximate length of time the CRTs will remain in such country and the nature of their handling while there.

(II) Notifications submitted by mail should be sent to the following mailing address: Office of Enforcement and Compliance Assurance, Office of Federal Activities, International Compliance Assurance Division, (Mail Code 2254A), Environmental Protection Agency, 1200 Pennsylvania Ave., N.W., Washington, D.C. 20460. Hand-delivered notifications should be sent to: Office of Enforcement and Compliance Assurance, Office of Federal Activities, International Compliance Assurance Division, (Mail Code 2254A), Environmental Protection Agency, Ariel Rios Bldg., Room 6144, 1200 Pennsylvania Ave., N.W., Washington, D.C. In both cases, the following must be prominently displayed on the front of the envelope: "Attention: Notification of intent to export CRTs."

(III) Upon request by EPA, the exporter must furnish to EPA any additional information which a receiving country requests in order to respond to a notification.

(IV) EPA will provide a complete notification to the receiving country and any transit countries. A notification is complete when EPA receives a notification which EPA determines satisfies the requirements of (oo)(i)(E)(I) of this subsection. Where a claim of confidentiality is asserted with respect to any notification information required by (oo)(i)(E)(I) of this subsection, EPA may find the notification not complete until any such claim is resolved in accordance with 40 CFR 260.2.

(V) The export of CRTs is prohibited unless the receiving country consents to the intended export. When the receiving country consents in writing to the receipt of the CRTs, EPA will forward an "Acknowledgment of Consent" to export CRTs to the exporter. Where the receiving country objects to receipt of the CRTs or withdraws a prior consent, EPA will notify the exporter in writing. EPA will also notify the exporter of any responses from transit countries.

(VI) When the conditions specified on the original notification change, the exporter must provide EPA with a written renotification of the change, except for changes to the telephone number in (oo)(i)(E)(I)(first bullet) of this subsection and decreases in the quantity indicated pursuant to (oo)(i)(E)(I)(third bullet) of this subsection. The shipment cannot take place until consent of the receiving country to the changes has been obtained (except for changes to information about points of entry and departure and transit countries pursuant to (oo)(i)(E)(I)(fourth bullet) and (i)(E)(I)(eighth bullet) of this section) and the exporter of CRTs receives from EPA a copy of the "Acknowledgment of Consent" to export CRTs reflecting the receiving country's consent to the changes.

(VII) A copy of the "Acknowledgment of Consent" to export CRTs must accompany the shipment of CRTs. The shipment must conform to the terms of the Acknowledgment.

(VIII) If a shipment of CRTs cannot be delivered for any reason to the recycler or the alternate recycler, the exporter of CRTs must renotify EPA of a change in the conditions of the original notification to allow shipment to a new recycler in accordance with (oo)(i)(E)(VI) of this subsection and obtain another "Acknowledgment of Consent" to export CRTs.

(IX) Exporters must keep copies of notifications and "Acknowledgments of Consent" to export CRTs for a period of five years following receipt of the "Acknowledgment."

(ii) Requirements for used CRT processing: CRTs undergoing CRT processing as defined in WAC 173-303-040 are not solid wastes if they meet the following requirements:

(A) Storage. CRTs undergoing processing are subject to the requirement of (oo)(i)(D) of this subsection.

(B) Processing.

(I) All activities specified in the second and third bullets of the definition of "CRT processing" in WAC 173-303-040 must be performed within a building with a roof, floor, and walls; and

(II) No activities may be performed that use temperatures high enough to volatilize lead from CRTs.

(iii) Processed CRT glass sent to CRT glass making or lead smelting: Glass from CRTs that is destined for recycling at a CRT glass manufacturer or a lead smelter after processing is not a solid waste unless it is speculatively accumulated as defined in WAC 173-303-016 (5)(d).

(iv) Use constituting disposal: Glass from used CRTs that is used in a manner constituting disposal must comply with the requirements of WAC 173-303-505.

(v) Notification and recordkeeping for cathode ray tubes (CRTs) exported for reuse.

(A) Persons who export CRTs for reuse must send a one-time notification to the U.S. EPA Regional Administrator. The notification must include a statement that the notifier plans to export CRTs for reuse, the notifier's name, address, and EPA/state ID number (if applicable) and the name and phone number of a contact person.

(B) Persons who export CRTs for reuse must keep copies of normal business records, such as contracts, demonstrating that each shipment of exported CRTs will be reused. This documentation must be retained for a period of at least five years from the date the CRTs were exported.

(pp) Zinc fertilizers made from hazardous wastes provided that:

(i) The fertilizers meet the following contaminant limits:

(A) For metal contaminants:

Maximum Allowable Total Concentration Constituent in Fertilizer, per Unit (1%) of Zinc (ppm)	
Arsenic	0.3
Cadmium	1.4
Chromium	0.6
Lead	2.8
Mercury	0.3

(B) For dioxin contaminants the fertilizer must contain no more than eight parts per trillion of dioxin, measured as toxic equivalent (TEQ).

(ii) The manufacturer performs sampling and analysis of the fertilizer product to determine compliance with the contaminant limits for metals no less than every six months, and for dioxins no less than every twelve months. Testing must also be performed whenever changes occur to manufacturing processes or ingredients that could significantly affect the amounts of contaminants in the fertilizer product. The manufacturer may use any reliable analytical method to demonstrate that no constituent of concern is present in the product at concentrations above the applicable limits. It is the responsibility of the manufacturer to ensure that the sampling and analysis are unbiased, precise, and representative of the product(s) introduced into commerce.

(iii) The manufacturer maintains for no less than three years records of all sampling and analyses performed for purposes of determining compliance with the requirements of (pp)(ii) of this subsection. Such records must at a minimum include:

(A) The dates and times product samples were taken, and the dates the samples were analyzed;

(B) The names and qualifications of the person(s) taking the samples;

(C) A description of the methods and equipment used to take the samples;

(D) The name and address of the laboratory facility at which analyses of the samples were performed;

(E) A description of the analytical methods used, including any cleanup and sample preparation methods; and

(F) All laboratory analytical results used to determine compliance with the contaminant limits specified in this subsection (3)(pp).

(qq) Debris. Provided the debris does not exhibit a characteristic identified in WAC 173-303-090, the following materials are not subject to regulation under this chapter:

(i) Hazardous debris that has been treated using one of the required extraction or destruction technologies specified in Table 1 of 40 CFR section 268.45, which is incorporated by reference at WAC 173-303-140 (2)(a); persons claiming this exclusion in an enforcement action will have the burden of proving by clear and convincing evidence that the material meets all of the exclusion requirements; or

(ii) Debris that the department, considering the extent of contamination, has determined is no longer contaminated with hazardous waste.

[Statutory Authority: Chapters 70.95N, 70.105, and 70.105D RCW. 07-21-013 (Order 07-05), § 173-303-071, filed 10/5/07, effective 11/5/07. Statutory Authority: Chapters 70.105, 70.105D, and 15.54 RCW and RCW 70.105.007. 04-24-065 (Order 03-10), § 173-303-071, filed 11/30/04, effective 1/1/05. Statutory Authority: Chapters 70.105 and 70.105D RCW. 03-07-049 (Order 02-03), § 173-303-071, filed 3/13/03, effective 4/13/03. Statutory Authority: Chapters 70.105, 70.105D, 15.54 RCW and RCW 70.105.007. 00-11-040 (Order 99-01), § 173-303-071, filed 5/10/00, effective 6/10/00. Statutory Authority: Chapters 70.105 and 70.105D RCW. 98-03-018, (Order 97-03), § 173-303-071, filed 1/12/98, effective 2/12/98; 95-22-008 (Order 94-30), § 173-303-071, filed 10/19/95, effective 11/19/95; 94-12-018 (Order 93-34), § 173-303-071, filed 5/23/94, effective 6/23/94; 94-01-060 (Order 92-33), § 173-303-071, filed 12/8/93, effective 1/8/94. Statutory Authority: Chapters 70.105 and 70.105D RCW, 40 CFR Part 271.3 and RCRA § 3006 (42 U.S.C. 3251). 91-07-005 (Order 90-42), § 173-303-071, filed 3/7/91, effective 4/7/91. Statutory Authority: Chapter 70.105 RCW. 89-02-059 (Order 88-24), § 173-303-071, filed 1/4/89; 87-14-029 (Order DE-87-4), § 173-303-071, filed 6/26/87; 86-12-057 (Order DE-85-10), § 173-303-071, filed 6/3/86; 85-09-042 (Order DE-85-02), § 173-303-071, filed 4/15/85; 84-09-088 (Order DE 83-36), § 173-303-071, filed 4/18/84. Statutory Authority: RCW 70.95.260 and chapter 70.105 RCW. 82-05-023 (Order DE 81-33), § 173-303-071, filed 2/10/82.]

Chapter 173-308 WAC
BIOSOLIDS MANAGEMENT

WAC

DISPOSITION OF SECTIONS FORMERLY CODIFIED IN THIS CHAPTER

173-308-070	Use of term, "biosolids"—Explanation. [Statutory Authority: RCW 70.95J.020 and 70.95.255. 98-05-101 (Order 97-30), § 173-308-070, filed 2/18/98, effective 3/21/98.] Repealed by 07-12-010 (Order 06-06), filed 5/24/07, effective 6/24/07. Statutory Authority: Chapters 70.95J and 70.95 RCW.
173-308-220	Bulk biosolids applied to forestland. [Statutory Authority: RCW 70.95J.020 and 70.95.255. 98-05-101 (Order 97-30), § 173-308-220, filed 2/18/98, effective 3/21/98.] Repealed by 07-12-010 (Order 06-06), filed 5/24/07, effective 6/24/07. Statutory Authority: Chapters 70.95J and 70.95 RCW.
173-308-230	Bulk biosolids applied to a public contact site. [Statutory Authority: RCW 70.95J.020 and 70.95.255. 98-05-101 (Order 97-30), § 173-308-230, filed 2/18/98, effective 3/21/98.] Repealed by 07-12-010 (Order 06-06), filed 5/24/07, effective 6/24/07. Statutory Authority: Chapters 70.95J and 70.95 RCW.
173-308-240	Bulk biosolids applied to a land reclamation site. [Statutory Authority: RCW 70.95J.020 and 70.95.255. 98-05-101 (Order 97-30), § 173-308-240, filed 2/18/98, effective 3/21/98.] Repealed by 07-12-010 (Order 06-06), filed 5/24/07, effective 6/24/07. Statutory Authority: Chapters 70.95J and 70.95 RCW.

WAC 173-308-005 Explanation for the use of the terms "sewage sludge," "biosolids," and "septage." (1) Sewage sludge is the solid, semisolid, or liquid residue generated during the treatment of domestic sewage in a treatment works. Biosolids are produced by treating sewage sludge to meet certain quality standards that allow it to be applied to the land for beneficial use. Septage is a class of biosolids that comes from septic tanks and similar systems receiving domestic wastes.

(a) Sewage sludge. Unless the context requires otherwise, "sewage sludge" is the term used in this chapter to refer to the residual material produced by a treatment works treating domestic sewage that does not meet the standards to be classified as biosolids or that is being disposed in a municipal solid waste landfill.

(b) Biosolids. Unless the context requires otherwise, "biosolids" is the term used in this chapter to refer to sewage sludge or septage that has been or is being treated to meet standards so that it can be applied to the land.

(c) Septage. Unless the context requires otherwise, "septage" is the term used in this chapter to refer to septage that is or will be managed as septage.

(2) The following sections apply only to biosolids or septage managed as biosolids originating from sewage sludge: WAC 173-308-150, 173-308-160, 173-308-170, 173-308-180, 173-308-200, 173-308-210, 173-308-250, and 173-308-260.

(3) WAC 173-308-270 addresses the management requirements for septage.

(4) Unless the context requires otherwise, all other sections apply to all biosolids, including septage.

[Statutory Authority: Chapters 70.95J and 70.95 RCW. 07-12-010 (Order 06-06), § 173-308-005, filed 5/24/07, effective 6/24/07.]

WAC 173-308-010 Authority and purpose. (1) **Authority.** This chapter is adopted under the authority of chapters 70.95J and 70.95 RCW.

(2) **Purpose.** The purpose of this chapter is to protect human health and the environment when biosolids are managed.

(a) This chapter encourages the maximum beneficial use of biosolids and is intended to conform to all applicable federal rules adopted under the Federal Clean Water Act as it existed on February 4, 1987.

(b) This chapter establishes permitting requirements for treatment works treating domestic sewage that engage in applicable biosolids treatment or management practices, including any person, site, or facility that has been designated as a treatment works treating domestic sewage.

(c) This chapter establishes standards for the treatment, quality, and management of sewage sludge and septage that are directly enforceable and that allow these materials to be classified and managed as biosolids.

(d) This chapter establishes requirements, standards, management practices, and monitoring, recordkeeping and reporting requirements that are applicable when biosolids are applied to the land and when sewage sludge is disposed in a municipal solid waste landfill unit as defined in chapter 173-351 WAC.

(e) This chapter establishes fees for permits issued to treatment works treating domestic sewage.

[Statutory Authority: Chapters 70.95J and 70.95 RCW. 07-12-010 (Order 06-06), § 173-308-010, filed 5/24/07, effective 6/24/07. Statutory Authority: RCW 70.95J.020 and 70.95.255. 98-05-101 (Order 97-30), § 173-308-010, filed 2/18/98, effective 3/21/98.]

WAC 173-308-020 Applicability. (1) These rules apply to all treatment works treating domestic sewage as defined by this chapter. In addition, these rules apply to, but are not limited to, the following:

(a) A person who prepares biosolids or sewage sludge.

(b) A person who stores biosolids or sewage sludge.

(c) A person who applies biosolids to the land.

(d) Biosolids that are applied to the land.

(e) The land where biosolids are applied.

(f) The owner and lease-holder of land where biosolids are applied.

(g) A person who disposes of sewage sludge in a municipal solid waste landfill.

(h) Sewage sludge that is disposed of in a municipal solid waste landfill.

(i) Biosolids or sewage sludge generated at an industrial facility during the treatment of only domestic sewage.

(j) A person who transfers biosolids or sewage sludge from one facility to another.

(k) A person who transports biosolids or sewage sludge.

(l) Mixtures of biosolids and other materials including, but not limited to, solid wastes.

(2) This chapter does not apply to the following sewage sludge and biosolids management facilities and practices:

(a) The firing of biosolids or sewage sludge in an incinerator.

(b) The placing or disposal of sewage sludge in facilities other than municipal solid waste landfills (e.g., the placement of sewage sludge at a surface disposal site).

(3) Except as provided in (g) of this subsection, the following solid wastes are not regulated under this chapter:

(a) Sludge generated at an industrial facility during the treatment of industrial wastewater, including when such a facility combines their industrial wastewater with their domestic sewage.

(b) Sewage sludge determined to be hazardous in accordance with chapter 70.105 RCW or rules adopted thereunder.

(c) Sewage sludge with a concentration of polychlorinated biphenyls (PCBs) equal to or greater than 50 milligrams per kilogram of total solids (dry weight basis).

(d) Ash generated during the firing of sewage sludge or biosolids in an incinerator.

(e) Grit or screenings generated during preliminary treatment of domestic sewage in a treatment works.

(f) Sludge generated during the treatment of either surface water or ground water used for drinking water.

(g) Commercial or industrial septage or a mixture of domestic septage and commercial or industrial septage except as allowed in accordance with this subsection.

(i) Grease trap wastes from restaurants and similar food service facilities may be mixed with domestic septage up to twenty-five percent by volume.

(ii) On a case-by-case basis, on request of a septage management facility or at the department's discretion, the department may designate other commercial or industrial septage as septage that is "domestic in quality" and require the septage to be managed in accordance with the provisions of this chapter.

(iii) At no time may the combined total of grease trap wastes and other commercial or industrial septage mixed with domestic septage exceed twenty-five percent by volume.

[Statutory Authority: Chapters 70.95J and 70.95 RCW. 07-12-010 (Order 06-06), § 173-308-020, filed 5/24/07, effective 6/24/07. Statutory Authority: RCW 70.95J.020 and 70.95.255. 98-05-101 (Order 97-30), § 173-308-020, filed 2/18/98, effective 3/21/98.]

WAC 173-308-030 Relationship to other laws, regulations, and ordinances. In addition to the requirements of this chapter, other laws, regulations, and ordinances may also apply to biosolids or sewage sludge. These include, but are not limited to, the following:

(1) Commercial fertilizers are subject to regulation by the Washington state department of agriculture. Biosolids meeting the definition of a commercial fertilizer must comply with chapter 15.54 RCW and chapter 16-200 WAC.

(2) Except as required in WAC 173-308-100, the transportation of biosolids or sewage sludge is subject to regulation by the Washington state utilities and transportation commission under Title 81 RCW.

(3) Facilities required to obtain permits under WAC 173-308-310 must comply with the requirements in chapter 43.21C RCW and the State Environmental Policy Act (SEPA) rules adopted under chapter 197-11 WAC. Public notice and hearing requirements under SEPA may be coordinated with the similar requirements of this chapter.

(4) Biosolids facilities and sites where biosolids are applied to the land must comply with the requirements of chapter 90.48 RCW and chapters 173-200 and 173-201A WAC.

(5) Facilities and sites where biosolids are applied to the land or sewage sludge is disposed must comply with the federal biosolids rule, 40 CFR Part 503.

(6) Facilities and sites where biosolids are applied to the land must comply with other applicable federal, state and local laws, regulations, and ordinances, including zoning and land use requirements.

(7) The enforcement of other laws, regulations, and ordinances is the responsibility of the agency with jurisdiction.

[Statutory Authority: Chapters 70.95J and 70.95 RCW. 07-12-010 (Order 06-06), § 173-308-030, filed 5/24/07, effective 6/24/07. Statutory Authority: RCW 70.95J.020 and 70.95.255. 98-05-101 (Order 97-30), § 173-308-030, filed 2/18/98, effective 3/21/98.]

WAC 173-308-041 Enforcement. Any violation of this chapter or any permit issued under this chapter may be subject to the enforcement provisions of applicable law including, but not limited to, chapters 70.95 and 70.95J RCW.

[Statutory Authority: Chapters 70.95J and 70.95 RCW. 07-12-010 (Order 06-06), § 173-308-041, filed 5/24/07, effective 6/24/07.]

WAC 173-308-042 Appeals. Any person aggrieved by a decision of the department made in accordance with provisions of this chapter may appeal that decision only as provided by applicable law including, but not limited to, chapters 43.21B and 34.05 RCW.

[Statutory Authority: Chapters 70.95J and 70.95 RCW. 07-12-010 (Order 06-06), § 173-308-042, filed 5/24/07, effective 6/24/07.]

WAC 173-308-050 Delegation of authority. Upon the request of a local health jurisdiction, the department may delegate authority to implement and assist in the administration of appropriate portions of this chapter.

Delegation must be consistent with any applicable state-EPA agreement regarding delegation of federal biosolids program authority.

(1) **Method of delegation.**

(a) Delegation will be accomplished through an instrument of mutual consent that is acceptable to both the department and the local health jurisdiction seeking delegation.

(b) The department may revoke part or all of a delegation of authority under this section if it finds that a local health jurisdiction has failed to adequately carry out any portion of a delegated responsibility.

(2) **Contents of delegation agreements.**

(a) At a minimum, delegation agreements must specify the authorities and responsibilities that are being delegated to a local health jurisdiction.

(b) Other authorities and responsibilities are assumed to be retained by the department.

(c) All delegation agreements must have a termination date that is no more than five years from the date signed.

[Statutory Authority: Chapters 70.95J and 70.95 RCW. 07-12-010 (Order 06-06), § 173-308-050, filed 5/24/07, effective 6/24/07. Statutory Authority: RCW 70.95J.020 and 70.95.255. 98-05-101 (Order 97-30), § 173-308-050, filed 2/18/98, effective 3/21/98.]

WAC 173-308-060 Biosolids not classified as solid waste. (1) The state of Washington recognizes biosolids as a valuable commodity.

(2) Biosolids are not solid waste and are not subject to regulation under solid waste laws.

(3) Sewage sludge or septage that fails to meet standards for classification as biosolids is a solid waste, and may not be applied to the land.

(4) Sewage sludge or septage that will be disposed in a landfill is a solid waste.

[Statutory Authority: Chapters 70.95J and 70.95 RCW. 07-12-010 (Order 06-06), § 173-308-060, filed 5/24/07, effective 6/24/07. Statutory Authority: RCW 70.95J.020 and 70.95.255. 98-05-101 (Order 97-30), § 173-308-060, filed 2/18/98, effective 3/21/98.]

WAC 173-308-080 Definitions. Unless the department determines that the context of the rule requires otherwise, the following definitions are applicable for the purposes of this chapter.

"Administrator" means the Administrator of the United States Environmental Protection Agency, or an authorized representative.

"Aerobic digestion" is the biochemical decomposition of organic matter in biosolids into carbon dioxide and water by microorganisms in the presence of air. Aerobic digestion does not include composting.

"Agricultural land" is land on which a food crop, feed crop, or fiber crop is grown. This includes range land and land used as pasture.

"Agronomic rate" is the biosolids application rate that provides the amount of nitrogen necessary for the optimum growth of targeted vegetation, and that will not result in the violation of applicable standards or requirements for the protection of ground or surface water as established under chapter 90.48 RCW and related rules including chapters 173-200 and 173-201A WAC.

"Anaerobic digestion" is the biochemical decomposition of organic matter in biosolids into methane gas and carbon dioxide by microorganisms in the absence of air. Anaerobic digestion does not include composting.

"Apply biosolids or biosolids applied to the land" means the land application of biosolids for the purpose of beneficial use.

"Beneficial use facility" means a receiving-only facility consisting of a site or sites where biosolids from other treatment works treating domestic sewage are applied to the land for beneficial use, which has been permitted as a treatment works treating domestic sewage in accordance with the provisions of WAC 173-308-310, and that has been designated as a beneficial use facility through the permitting process.

"Beneficial use of biosolids" means the application of biosolids to the land for the purposes of improving soil characteristics including tilth, fertility, and stability to enhance the growth of vegetation consistent with protecting human health and the environment.

"Biosolids" means municipal sewage sludge that is a primarily organic, semisolid product resulting from the wastewater treatment process, that can be beneficially recycled and meets all applicable requirements under this chapter. Biosolids includes a material derived from biosolids, and septic tank sludge, also known as septage, that can be beneficially recycled and meets all applicable requirements under this chapter. For the purposes of this rule, semisolid products include biosolids or products derived from biosolids ranging in character from mostly liquid to fully dried solids.

"Biosolids sold or given away in a bag or other container" means biosolids sold or given away to the general public in a bag or other container holding less than 1 metric ton (1.1 U.S. tons).

"Bulk biosolids" means biosolids that are not sold or given away in a bag or other container for application to the land.

"Ceiling concentration" means the maximum concentration of a pollutant in any biosolids sample, beyond which level the biosolids would be classified as sewage sludge not suitable for application to the land. Ceiling concentrations are established in Table 1 of WAC 173-308-160.

"Class I biosolids management facility" is any publicly owned treatment works (POTW), as defined in 40 CFR 501.2, required to have an approved pretreatment program under 40 CFR 403.8(a) (including any POTW located in a state that has elected to assume local program responsibilities under 40 CFR 403.10(e)), and any treatment works treating domestic sewage, as defined in 40 CFR 122.2, classified as a Class I biosolids management facility by the EPA Regional Administrator, or in the case of approved state programs, the Regional Administrator in conjunction with the state director, because of the potential for its biosolids use or disposal practice to affect public health and the environment adversely.

"Clean Water Act" or **"CWA"** means the Clean Water Act or Federal Clean Water Act (FCWA) (formerly referred to as either the Federal Water Pollution Act or the Federal Water Pollution Control Act Amendments of 1972), Public Law 92-500, as amended by Public Law 95-217, Public Law 95-576, Public Law 96-483, Public Law 97-117, and Public Law 100-4.

"Composting" means the biological degradation of organic material under controlled conditions designed to promote aerobic decomposition. This does not include the treatment of sewage sludge in a digester at a wastewater treatment plant.

"Cumulative pollutant loading rate" is the maximum amount of a pollutant that can be applied to an area of land from biosolids that exceed the pollutant concentration limits established in Table 3 of WAC 173-308-160.

"Density of microorganisms" is the number of microorganisms per unit mass of total solids (dry weight) in the biosolids.

"Department" means the Washington state department of ecology and, within the scope of its delegation, a local health jurisdiction that has been delegated authority under WAC 173-308-050.

"Director" means the director of the department of ecology or his or her authorized representative.

"Disposal on an emergency basis" means a period up to but not exceeding one year. Generally, emergency situations requiring the use of disposal facilities will normally occur as a result of inclement weather conditions at a beneficial use site, contractual or technical difficulties in the treatment, transportation, or application of the biosolids, or as a result of short term economic or administrative barriers, any and all of which are expected to be resolved within a period of one year.

"Disposal on a long-term basis" means to adopt disposal as a preferred method of management for at least five years, or for an indefinite period of time with no expectation for pursuing other management alternatives.

"Disposal on a temporary basis" means a period of more than one but less than five years. Generally, situations requiring the temporary use of disposal facilities will nor-

mally occur as a result of deficiencies in the wastewater or biosolids treatment process, or economic, administrative, or contractual constraints which cannot be resolved in less than one year.

"Domestic sewage" is waste and wastewater from humans or household operations that is discharged to or otherwise enters a treatment works.

"Dry weight basis" means calculated on the basis of having been dried at 105°C (221°F) until reaching a constant mass (i.e., essentially one hundred percent solids content).

"EPA" means the United States Environmental Protection Agency.

"Exceptional quality biosolids" means biosolids that meet the pollutant concentration limits in Table 3 of WAC 173-308-160, **and** at least one of the Class A pathogen reduction requirements in WAC 173-308-170, **and** at least one of the vector attraction reduction requirements in WAC 173-308-180.

"Facility" means a treatment works treating domestic sewage as defined in this chapter, unless the context of the rule requires otherwise. For the purposes of this chapter a facility is considered to be new if it has not been previously approved for the treatment, storage, use, or disposal of biosolids or sewage sludge.

"Feed crops" are crops produced primarily for consumption by animals.

"Fiber crops" are crops such as flax and cotton including, but not limited to, those whose parts or by-products may be consumed by humans or used in the production or preparation of food for human consumption.

"Food crops" are crops consumed by humans. These include, but are not limited to, fruits, vegetables, grains, and tobacco.

"Forest" is an area of land that is managed for the production of timber or other forest products, or for benefits such as recreation and watershed protection, and that is or will be dominated by trees under the current system of management. For the purposes of this rule, other areas of land that are not regulated as agricultural land, public contact sites, land reclamation sites, or lawns or home gardens are considered forest land.

"General permit" means a permit issued by the department in accordance with the procedures established in this chapter, to be effective in a designated geographical area, that authorizes the application of biosolids to the land or the disposal of sewage sludge in a municipal solid waste landfill, under which multiple treatment works treating domestic sewage may apply for coverage.

"Geometric mean" means the antilogarithm of the arithmetic average of the logarithms of the sample values, or the nth root of the product of n sample values.

"Ground water" means water in a saturated zone or stratum beneath the surface of land or below a surface water body.

"Health jurisdiction" or **"local health jurisdiction"** means city, county, city-county, or district public health jurisdiction as defined in chapters 70.05, 70.08, and 70.46 RCW.

"Individual permit" means a permit issued by the department to a single treatment works treating domestic sewage in accordance with WAC 173-308-310, which authorizes the management of biosolids or sewage sludge.

"Industrial septage" or **"commercial septage"** is the contents from septic tanks or similar systems that receive wastewater generated in a commercial or industrial process. This definition includes, but is not limited to, grease trap wastes generated at restaurants and similar food service facilities.

"Industrial wastewater" or **"commercial wastewater"** is wastewater generated in a commercial or industrial process.

"Land application" is the application of biosolids to the land surface by means such as spreading or spraying, the injection of biosolids below the land surface, or the incorporation of biosolids into the soil, for the purpose of beneficial use.

"Land with a low potential for public exposure" is land that the public uses infrequently. This includes, but is not limited to, agricultural land, forest, and a reclamation site located in an unpopulated area (e.g., a strip mine located in a rural area).

"Land with a high potential for public exposure" is land that the public uses frequently. This includes, but is not limited to, a public contact site and a reclamation site located in a populated area (e.g., a construction site located in a city).

"Local health jurisdiction" see definition of health jurisdiction.

"Manufactured inerts" means wastes such as plastic, metals, ceramics and other manufactured items that remain relatively unchanged during wastewater or biosolids treatment processes.

"Monthly average" is the arithmetic mean of all measurements taken during the month.

"Municipal sewage sludge" means sewage sludge generated from a publicly owned treatment works. For the purposes of this chapter, sewage sludge generated from the treatment of only domestic sewage in a privately owned or industrial treatment facility is considered municipal sewage sludge.

"Municipality" means a city, town, borough, county, parish, district, association, or other public body (including an inter-municipal agency of two or more of the foregoing entities) created by or under state law, or a designated and approved management agency under section 208 of the Clean Water Act, as amended. The definition includes a special district created under state law, such as a water district, sewer district, sanitary district, utility district, drainage district, or similar entity, or an integrated waste management facility as defined in section 201(e) of the Clean Water Act, as amended, that has as one of its principal responsibilities the treatment, transport, use, or disposal of biosolids.

"Nonexceptional quality biosolids" means biosolids that do not meet the criteria of "exceptional quality biosolids" as defined in this section.

"Other container" is either an open or closed receptacle. This includes, but is not limited to, a bucket, a box, a carton, and a vehicle or trailer with a load capacity of one metric ton (1.1 U.S. tons) or less.

"Owner" means any person with ownership interest in a site or facility, or who exercises control over a site or facility, but does not include a person who, without participating in management of the site or facility, holds indicia of ownership primarily to protect the person's security interest.

"Pasture" is land on which animals feed directly on feed crops such as legumes, grasses, grain stubble, or stover.

"Pathogenic organisms" are disease causing organisms. These include, but are not limited to, certain bacteria, protozoa, viruses, and viable helminth ova.

"Permit" means an authorization, license, or equivalent control document issued by the director to implement the requirements of this chapter. Unless the context requires differently, the use of the term in this chapter refers to individual permits, general permits, and coverage under general permits.

"Person" is an individual, association, partnership, corporation, municipality, state or federal agency, or an agent or employee thereof.

"Person who prepares biosolids" is either the person who generates biosolids during the treatment of domestic sewage in a treatment works or the person who derives a material from biosolids.

"pH" means the logarithm of the reciprocal of the hydrogen ion concentration.

"Place sewage sludge" or **"sewage sludge placed"** means to dispose of sewage sludge.

"Pollutant" is an organic substance, an inorganic substance, a combination of organic and inorganic substances, or a pathogenic organism that, after discharge and upon exposure, ingestion, inhalation, or assimilation into an organism either directly from the environment or indirectly by ingestion through the food chain, could, on the basis of information available to the Administrator of EPA, cause death, disease, behavioral abnormalities, cancer, genetic mutations, physiological malfunctions (including malfunction in reproduction), or physical deformations in either organisms or offspring of the organisms.

"Pollutant limit" is a numerical value that describes the amount of a pollutant allowed per unit amount of biosolids (e.g., milligrams per kilogram of total solids), the amount of a pollutant that can be applied to a unit area of land (e.g., kilograms per hectare), the volume of a material that can be applied to a unit area of land (e.g., gallons per acre), or the number of pathogens or indicator organisms per unit of biosolids. Pollutant limits are established in Tables 1 - 3 of WAC 173-308-160, in 173-308-170, and in 173-308-270.

"Public contact site" is land with a high potential for contact by the public. This includes, but is not limited to, public parks, ball fields, cemeteries, plant nurseries, turf farms, and golf courses.

"Publicly owned treatment works" means a treatment works treating domestic sewage that is owned by a municipality, the state of Washington, or the federal government.

"Range land" is generally open, uncultivated land dominated by herbaceous or shrubby vegetation that may be used for grazing or browsing, either by wildlife or livestock.

"Receiving-only facility" means a treatment works treating domestic sewage that only receives sewage sludge or biosolids from other sources for further treatment and/or application to the land, and which does not generate any biosolids from the treatment of domestic sewage.

"Reclamation site" is drastically disturbed land that is reclaimed using biosolids. This includes, but is not limited to, strip mines and construction sites.

"Regional administrator" means the Regional Administrator of Region 10 of the Environmental Protection Agency or his/her authorized representative.

"Residential equivalent value" means the number of residential equivalents determined for a facility under chapter 173-224 WAC or a value similarly obtained under WAC 173-308-320.

"Restrict public access" means to minimize access of nonessential personnel to land where biosolids are applied, through the use of natural or artificial barriers, signs, remoteness, or other means.

"Saturated zone" means the zone below the water table in which all interstices are filled with water.

"Septage" or **"domestic septage"** is liquid or solid material removed from septic tanks, cess pools, portable toilets, type III marine sanitation devices, vault toilets, pit toilets, RV holding tanks, or similar systems that receive only domestic sewage. Septage may also include commercial or industrial septage mixed with domestic septage if approved in accordance with the provisions in WAC 173-308-020 (3)(g).

"Septage managed as biosolids originating from sewage sludge" means septage managed as if it had originated from a sewage treatment process at a wastewater treatment facility including, but not limited to, meeting the sampling requirements in WAC 173-308-140, the monitoring requirements in WAC 173-308-150, the pollutant limits in WAC 173-308-160, the pathogen reduction requirements in WAC 173-308-170, and the vector attraction reduction requirements in this chapter.

"Septage management facility" means a person who applies septage to the land or one that treats septage for application to the land.

"Sewage sludge" is solid, semisolid, or liquid residue generated during the treatment of domestic sewage in a treatment works. Sewage sludge includes, but is not limited to, domestic septage; scum or solids removed in primary, secondary, or advanced wastewater treatment processes; and a material derived from sewage sludge. Sewage sludge does not include ash generated during the firing of sewage sludge in a sewage sludge incinerator or grit and screenings generated during preliminary treatment of domestic sewage in a treatment works.

"Significant change in biosolids management practices" means, but is not limited to, the following: A change in the quality of biosolids that are applied to the land, either from class A to class B for pathogens, or from Table 3 to Table 1 of WAC 173-308-160 for pollutant limits; the addition of a new area to which biosolids will be applied which was not previously disclosed during a required public notice process; for class B biosolids only, a change from nonfood crops to food crops, a change from crops where the harvestable portions do not contact the biosolids/soil mixture to crops where the harvestable portions contact the biosolids/soil mixture, or a change in site classification from land with a low potential for public exposure to land with a high potential for public exposure; or any change or deletion of a requirement established in an approved land application plan or established as a condition of coverage under a permit that would result in a decrease in buffer size, site monitoring, or

facility reporting requirements, which was not otherwise provided for in the permit or plan approval process.

"Site" means all areas of land, including buffer areas, which are identified in the scope of an approved site specific land application plan. A site is considered to be new or expanded when biosolids are applied to an area not approved in a site specific land application plan or that was not previously disclosed during a required public notice process.

"Specific oxygen uptake rate (SOUR)" is the mass of oxygen consumed per unit time per unit mass of total solids (dry weight basis) in the biosolids.

"State" means the state of Washington.

"Store or storage of biosolids or sewage sludge" is the placing of biosolids or sewage sludge on land or in surface impoundments or other containment devices in which the biosolids or sewage sludge remain for two years or less, except where a greater time period has been approved by the department. This does not include the placing of biosolids or sewage sludge on land or in surface impoundments or other containment devices for treatment or disposal.

"Stover" is the nongrain, above-ground part of a grain crop, often corn or sorghum.

"Surface impoundment" means a facility or part of a facility which is a natural topographic depression, man-made excavation, or diked area formed primarily of earthen materials (although it may be lined with man-made materials), and which is designed to hold an accumulation of liquids or sludges. The term includes holding, storage, settling, and aeration pits, ponds, or lagoons, but does not include injection wells.

"Surface waters of the state" means surface waters of the state as defined in WAC 173-201A-020.

"Tank" means a stationary device designed to contain an accumulation of liquid or semisolid materials and which is constructed primarily of nonearthen materials to provide structural support.

"Temporary, small-scale storage" is the storage of biosolids or sewage sludge for no more than thirty days in a tank holding no more than 10,000 gallons with a total on-site maximum volume of no more than 20,000 gallons.

"Total solids" are the materials in biosolids that remain as residue when the biosolids are dried at 103 to 105°C (217.4 to 221°F).

"Treat or treatment of biosolids" is the preparation of biosolids for final use or disposal. This includes, but is not limited to, thickening, stabilization, and dewatering of biosolids. This does not include storage of biosolids.

"Treatment works" is either a federally owned, publicly owned, or privately owned device or system used to treat (including recycle and reclaim) either domestic sewage or a combination of domestic sewage and industrial waste of a liquid nature.

"Treatment works treating domestic sewage" means a publicly owned treatment works or any other sewage sludge or wastewater treatment devices or systems, regardless of ownership, used in the storage, treatment, recycling, and reclamation of municipal or domestic sewage or sewage sludge, including land dedicated for the disposal of sewage sludge. Treatment works treating domestic sewage also includes beneficial use facilities and septage management facilities as defined in this section, and a person, site, or facility designated as a treatment works treating domestic sewage in accordance with WAC 173-308-310 (1)(b). This definition does not include septic tanks or similar devices or temporary, small-scale storage as defined in this section.

"Unstabilized solids" are organic materials in biosolids that have not been treated in either an aerobic or anaerobic treatment process.

"Vector attraction" is the primarily odorous characteristic of biosolids that attracts rodents, flies, mosquitoes, or other organisms capable of transporting infectious agents.

"Volatile solids" is the amount of the total solids in biosolids that are lost when the biosolids are combusted at 550°C (1,022°F) in the presence of excess air.

"Waters of the state" means waters of the state as defined in RCW 90.48.020.

"Wetlands" means those areas that are inundated or saturated by surface water or ground water at a frequency and duration 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.

[Statutory Authority: Chapters 70.95J and 70.95 RCW. 07-12-010 (Order 06-06), § 173-308-080, filed 5/24/07, effective 6/24/07. Statutory Authority: RCW 70.95J.020 and 70.95.255. 98-05-101 (Order 97-30), § 173-308-080, filed 2/18/98, effective 3/21/98.]

WAC 173-308-090 Requirement for a person who prepares biosolids or sewage sludge. Any person who prepares biosolids or sewage sludge must ensure that the applicable requirements in this chapter and any applicable permit issued under this chapter are met when the biosolids are managed.

[Statutory Authority: Chapters 70.95J and 70.95 RCW. 07-12-010 (Order 06-06), § 173-308-090, filed 5/24/07, effective 6/24/07. Statutory Authority: RCW 70.95J.020 and 70.95.255. 98-05-101 (Order 97-30), § 173-308-090, filed 2/18/98, effective 3/21/98.]

WAC 173-308-100 Requirement for a person who transports biosolids or sewage sludge. This section applies to facilities required to obtain a permit under this chapter who transport their biosolids or sewage sludge or contract for the transportation of their biosolids or sewage sludge.

(1) Any person who transports biosolids or sewage sludge must ensure that the transportation vehicle is properly cleaned prior to use of the vehicle for the transportation of food crops, feed crops, or fiber crops.

(2) **Spill prevention/response plan.** Facilities must submit a spill prevention/response plan to the department which describes how they will attempt to prevent and respond to any spillage of biosolids or sewage sludge during transportation. The plan must include a list of contact names and numbers, an explanation of how and when they would be contacted, what their role is, and how a spill would be cleaned up. For those who contract for the transportation of their biosolids or sewage sludge, a contractor's plan is sufficient if the minimal requirements are met.

(3) The transportation of biosolids or sewage sludge is otherwise subject to regulation by the Washington state utilities and transportation commission under Title 81 RCW and WAC 173-308-030(2).

[Statutory Authority: Chapters 70.95J and 70.95 RCW. 07-12-010 (Order 06-06), § 173-308-100, filed 5/24/07, effective 6/24/07. Statutory Authority: RCW 70.95J.020 and 70.95.255. 98-05-101 (Order 97-30), § 173-308-100, filed 2/18/98, effective 3/21/98.]

WAC 173-308-120 Requirement to obtain and provide information. (1) It is a violation of the provisions of this chapter for any person to falsify a certification or statement that is required by these rules or to make any required certification or statement under false pretense.

(2) Any person who applies biosolids to the land must obtain information needed to comply with the requirements of this chapter.

(3) The person who prepares biosolids must provide the person who applies biosolids to the land with notice and necessary information to comply with the requirements of this chapter, including sufficient information on the concentration and types of nutrients in the biosolids needed to determine an agronomic rate for the crop under management.

(4) When a person who prepares biosolids provides the biosolids to another person who further prepares the biosolids, the person who provides the biosolids must provide the person who receives the biosolids notice and necessary information to comply with the requirements of this chapter.

(5) The person who applies bulk biosolids to the land must provide the owner or lease holder of the land on which the bulk biosolids are applied notice and necessary information to comply with the requirements of this chapter.

(6) The person who applies nonexceptional quality bulk biosolids to the land must obtain written approval of the landowner prior to applying biosolids to the land for the first time.

(7) All persons required to keep and maintain records under any provision of this chapter must provide access to those records during normal business hours to a representative of the department, a local health jurisdiction, or the United States EPA, and to the owner, lessor, lessee or other person with a legal management interest in the land on which the biosolids are applied, at the location where the records are kept.

(8) Any facility, including a beneficial use facility, must immediately notify all sources from which it receives biosolids, if at any time it becomes unsuitable for the purpose of receiving biosolids from those other sources.

[Statutory Authority: Chapters 70.95J and 70.95 RCW. 07-12-010 (Order 06-06), § 173-308-120, filed 5/24/07, effective 6/24/07. Statutory Authority: RCW 70.95J.020 and 70.95.255. 98-05-101 (Order 97-30), § 173-308-120, filed 2/18/98, effective 3/21/98.]

WAC 173-308-130 Requirements for treatment works located outside of the jurisdiction of the department. When bulk biosolids or sewage sludge or biosolids in a bag or other container originating from treatment works located on tribal lands, in other states, or in other nations are exported into the state, the requirements of this section must be met.

(1) Bulk biosolids or sewage sludge from a treatment works seeking its own management program within the state must meet the following requirements:

(a) The exporting facility must apply for a permit in accordance with the requirements in WAC 173-308-310 and receive final coverage under a general permit or receive an individual permit prior to exporting biosolids or sewage sludge into the state.

(b) The exporting facility must pay a fee as determined by the criteria specified in WAC 173-308-320.

(2) Bulk biosolids or sewage sludge from a treatment works seeking to transfer its biosolids or sewage sludge to a facility within the state for management or further treatment must meet the following requirements:

(a) The exporting facility must receive written approval from the department prior to exporting biosolids or sewage sludge for the first time.

(b) There must be no sustainable objection to the approval required in (a) of this subsection from the EPA or the local health jurisdiction(s) in the county(s) where the material will be received.

(c) The biosolids or sewage sludge must be exported to a facility with a current permit issued by the department that allows it to accept biosolids or sewage sludge from other facilities.

(d) The receiving facility must maintain any applicable records and certification statements required in WAC 173-308-290 on the biosolids or sewage sludge from the exporting facility and provide such records to the department upon request and in its annual biosolids report.

(e) The exporting facility must pay a fee as determined by the criteria specified in WAC 173-308-320.

(3) Biosolids in a bag or other container must meet the following requirements:

(a) The exporting facility must receive written approval from the department prior to exporting biosolids for the first time.

(b) The biosolids must meet the requirements in WAC 173-308-260.

(4) The exporting facility must be in compliance with any other federal, state, provincial, or local biosolids or sewage sludge laws, regulations, and ordinances.

(5) All other applicable requirements of this chapter must be met.

[Statutory Authority: Chapters 70.95J and 70.95 RCW. 07-12-010 (Order 06-06), § 173-308-130, filed 5/24/07, effective 6/24/07. Statutory Authority: RCW 70.95J.020 and 70.95.255. 98-05-101 (Order 97-30), § 173-308-130, filed 2/18/98, effective 3/21/98.]

WAC 173-308-140 Biosolids sampling and analytical methods. (1) **Sampling.** Samples that are collected and analyzed must be representative of the biosolids that are applied to the land.

(2) **Analytical methods.**

(a) The most current version of the publications listed in this subsection are incorporated by reference. These publications are available for review during normal working hours at the Washington State Department of Ecology headquarters located at 300 Desmond Drive in Olympia, Washington. Copies may be obtained from the standard producer or publisher.

(b) Unless otherwise stipulated by the department, the following methods (or methods in 40 CFR Part 136 or 40 CFR Part 503) must be used to analyze samples of biosolids or sewage sludge.

ANALYTICAL METHODS

Parameter	Analytical Method
Arsenic	SW-846 Method 6010 SW-846 Method 6020 SW-846 Method 7010 SW-846 Method 7061
Cadmium	SW-846 Method 6010 SW-846 Method 6020 SW-846 Method 7000B SW-846 Method 7010
Copper	SW-846 Method 6010 SW-846 Method 6020 SW-846 Method 7000B SW-846 Method 7010
Lead	SW-846 Method 6010 SW-846 Method 6020 SW-846 Method 7000B SW-846 Method 7010
Mercury	SW-846 Method 7470 SW-846 Method 7471
Molybdenum	SW-846 Method 6010 SW-846 Method 6020 SW-846 Method 7000B SW-846 Method 7010
Nickel	SW-846 Method 6010 SW-846 Method 6020 SW-846 Method 7000B SW-846 Method 7010
Selenium	SW-846 Method 6010 SW-846 Method 6020 SW-846 Method 7010 SW-846 Method 7741
Zinc	SW-846 Method 6010 SW-846 Method 6020 SW-846 Method 7000B SW-846 Method 7010
Fecal Coliform	SM 9221 C or E SM 9222 D Appendix F, EPA/625/R-92/013 EPA 1680 EPA 1681
Salmonella Bacteria	SM 9260 D Appendix G, EPA/625/R-92/013 EPA 1682
Helminth Ova	Appendix I, EPA/625/R-92/013
Enteric Viruses	ASTM Designation: D 4994-89 Appendix H, EPA/625/R-92/013
Total Kjeldahl Nitrogen (TKN)	SM Method 4500, N_{org} B SM Method 4500, N_{org} C
Nitrate (as N)	SM Method 4500-NO_3 E, F, or H
Nitrite (as N)	SM Method 4500-NO_2 B
Ammonia (as N)	SM Method 4500-NH_3 B + C, D, E, or G
Organic Nitrogen	Value calculated as TKN minus NH_3-N
Total Phosphorus	SM Method 4500-P B + E or F
Total Solids, Fixed Solids, or Volatile Solids	SM Method 2540 G
Volatile Solids Reduction	Appendix C, EPA/625/R-92/013
Additional Volatile Solids Reduction for Anaerobically Digested Solids	Appendix D (1), EPA/625/R-92/013
Additional Volatile Solids Reduction for Aerobically Digested Solids	Appendix D (3), EPA/625/R-92/013
Specific Oxygen Update Rate (SOUR)	SM Method 2710 B Appendix D (2), EPA/625/R-92/013
pH	SW-846 Method 9045D
TCLP	SW-846 Method 1311
Paint Filter Test	SW-846 Method 9095B

Where:

ASTM = "*Standard Practice for Recovery of Viruses From Wastewater Sludges,*" Annual Book of ASTM Standards: Section 11-Water and Environmental Technology, ASTM, 1916 Race Street, Philadelphia, PA 19103-1187.

EPA/625/R-92/013 = "*Environmental Regulations and Technology, Control of Pathogens and Vector Attraction in Sewage Sludge (Including Domestic Septage) Under 40 CFR Part 503*," U.S. Environmental Protection Agency, Office of Research and Development, National Risk Management Research Laboratory, Center for Environmental Research Information, Cincinnati, OH 45268.

EPA 1680 = USEPA. Method 1680: Fecal Coliforms in Sewage Sludge (Biosolids) by Multiple-Tube Fermentation Using Lauryl-Tryptose Broth (LTB) and EC Medium. U.S. Environmental Protection Agency, Office of Water, Washington, DC EPA-821-R-06-012.

EPA 1681 = USEPA. Method 1681: Fecal Coliforms in Sewage Sludge (Biosolids) by Multiple-Tube Fermentation using A-1 Medium. U.S. Environmental Protection Agency, Office of Water, Washington, DC EPA-821-R-06-013.

EPA 1682 = USEPA. Method 1682: *Salmonella* in Sewage Sludge (Biosolids) by Modified Semisolid Rappaport-Vassiliadis (MSRV) Medium. U.S. Environmental Protection Agency, Office of Water, Washington, DC EPA-821-R-06-014.

Parameter		Analytical Method
SM	=	"*Standard Methods for the Examination of Water and Wastewater,*" American Public Health Association, 1015 15th Street NW, Washington, DC 20005.
SW-846	=	"*Test Methods for Evaluating Solid Waste, Physical/Chemical Methods*," EPA publication SW-846. Available from the National Technical Information Service, 5285 Port Royal Road, Springfield, VA 22161.

[Statutory Authority: Chapters 70.95J and 70.95 RCW. 07-12-010 (Order 06-06), § 173-308-140, filed 5/24/07, effective 6/24/07. Statutory Authority: RCW 70.95J.020 and 70.95.255. 98-05-101 (Order 97-30), § 173-308-140, filed 2/18/98, effective 3/21/98.]

WAC 173-308-150 Frequency of biosolids monitoring. (1) The frequency of monitoring required by this section is based on the dry weight tonnage of bulk biosolids applied to the land per three hundred sixty-five-day period or the dry weight tonnage of biosolids received per three hundred sixty-five-day period by a person who prepares biosolids that are sold or given away for application to the land.

(2) The person who prepares biosolids is responsible for ensuring that monitoring is carried out in accordance with the requirements of this chapter and any applicable permit.

(3) The minimum frequency of monitoring listed below applies to the pollutants listed in Tables 1, 2, and 3 of WAC 173-308-160, the pathogen density requirements in WAC 173-308-170, and the vector attraction reduction requirements in WAC 173-308-180.

MINIMUM FREQUENCY OF MONITORING

Metric tons (U.S. tons) per 365-day period	Frequency
Greater than zero but less than 290 (320)	once per year
Equal to or greater than 290 (320) but less than 1,500 (1,653)	once per quarter (4 times per year)
Equal to or greater than 1,500 (1,653) but less than 15,000 (16,535)	once per 60 days (6 times per year)
Equal to or greater than 15,000 (16,535)	once per month (12 times per year)

(4) Treatment works treating domestic sewage that transfer biosolids or sewage sludge for further treatment to another facility are not required to monitor for pollutant concentrations, pathogen reduction, or vector attraction reduction unless specifically required to do so in a permit issued by the department.

(5) After the biosolids have been monitored for two years at the frequency in this section, the person who prepares the biosolids may request the department to reduce the frequency of monitoring for pollutant concentrations. The frequency of monitoring must not be less than once per year when biosolids are applied to the land.

[Statutory Authority: Chapters 70.95J and 70.95 RCW. 07-12-010 (Order 06-06), § 173-308-150, filed 5/24/07, effective 6/24/07. Statutory Authority: RCW 70.95J.020 and 70.95.255. 98-05-101 (Order 97-30), § 173-308-150, filed 2/18/98, effective 3/21/98.]

WAC 173-308-160 Biosolids pollutant limits. This section sets pollutant concentration limits and cumulative pollutant loading rate limits for biosolids that are applied to the land.

(1) **Table 1.** Table 1 of this section sets the maximum allowable concentration (ceiling limit) of pollutants in biosolids that are applied to the land. Sewage sludge that contains any pollutant listed in Table 1 of this section at a concentration greater than the allowable ceiling limit is not biosolids, is a solid waste, and may not be applied to the land.

(2) **Table 2.** Table 2 of this section sets the maximum quantities of pollutants that may be added to an area of land, also referred to as the cumulative pollutant loading rate. The cumulative pollutant loading rates in Table 2 apply when the concentration of any pollutant in biosolids that are applied to the land exceeds the allowable pollutant concentration limit in Table 3 of this section.

(a) A person may not apply bulk biosolids subject to the cumulative pollutant loading rates in Table 2 of this section to a land application site, if any of those rates have been reached on the site.

(b) Before bulk biosolids subject to the cumulative pollutant loading rates in Table 2 of this section are applied to the land, the person who proposes to apply the bulk biosolids must contact the local health jurisdiction and the department to determine whether bulk biosolids subject to the cumulative pollutant loading rates were applied to the site before the effective date of this chapter.

(i) If bulk biosolids subject to the cumulative pollutant loading rates in Table 2 of this section have been applied to the site since July 20, 1993, and the cumulative amount of each pollutant applied to the site since that date is known, in addition to any amount subtracted in (b)(iii) of this subsection, the amount previously applied must be subtracted from the cumulative pollutant loading rate for each pollutant, to determine the remaining amount of pollutant that may be applied to the site.

(ii) If bulk biosolids subject to the cumulative pollutant loading rates in Table 2 of this section have been applied to the site since July 20, 1993, and the cumulative amount of each pollutant applied to the site in the bulk biosolids since that date is not known, additional biosolids subject to the cumulative pollutant loading rates in Table 2 of this section may not be applied to the site.

(iii) If bulk biosolids were applied to the site prior to July 20, 1993, and the cumulative amount of each pollutant applied to the site prior to that date can be determined, in addition to any amount subtracted in (b)(i) of this subsection, the amount applied must be subtracted from the cumulative pollutant loading rate for each pollutant, to determine the remaining amount of pollutant that may be applied to the site.

(iv) If bulk biosolids subject to the cumulative pollutant loading rates in Table 2 of this section have not been applied to the site, the cumulative amount of each pollutant listed in Table 2 of this section may be applied to the site.

(v) Any person who applies bulk biosolids to the land, which are subject to the cumulative pollutant loading rates in Table 2 of this section, must provide written notice prior to

the initial application of bulk biosolids to the land. Notice must be submitted to the department, and to any local health jurisdiction in whose jurisdiction the biosolids will be applied. The department and the local health jurisdiction must retain and provide access to the notice. The notice must include the following:

(A) The location of each site, either by street address, the latitude and longitude of the approximate center, or the section, township and range of each quarter section, **and** a map(s) with the application area(s) clearly shown.

(B) The name, address, telephone number, and National Pollutant Discharge Elimination System (NPDES) or state waste discharge permit number and state biosolids permit number (if applicable) of the person who prepared the biosolids and also of the person who applies (if applicable) the bulk biosolids.

(3) **Table 3.** Table 3 of this section sets a lower pollutant concentration threshold which, when achieved, relieves the person who prepares biosolids and the person who applies biosolids, from certain requirements related to recordkeeping, reporting, and labeling.

TABLE 1 - CEILING CONCENTRATION LIMITS

POLLUTANT	CEILING CONCENTRATION milligrams per kilogram (dry weight basis)
Arsenic	75
Cadmium	85
Copper	4300
Lead	840
Mercury	57
Molybdenum	75
Nickel	420
Selenium	100
Zinc	7500

TABLE 2 - CUMULATIVE POLLUTANT LOADING RATES

POLLUTANT	CUMULATIVE POLLUTANT LOADING RATE kilograms per hectare (dry weight basis)
Arsenic	41
Cadmium	39
Copper	1500
Lead	300
Mercury	17
Nickel	420
Selenium	100
Zinc	2800

TABLE 3 - POLLUTANT CONCENTRATION LIMITS

POLLUTANT	LIMIT monthly average in milligrams per kilogram (dry weight basis)
Arsenic	41
Cadmium	39
Copper	1500
Lead	300
Mercury	17
Nickel	420
Selenium	100
Zinc	2800

[Statutory Authority: Chapters 70.95J and 70.95 RCW. 07-12-010 (Order 06-06), § 173-308-160, filed 5/24/07, effective 6/24/07. Statutory Authority: RCW 70.95J.020 and 70.95.255. 98-05-101 (Order 97-30), § 173-308-160, filed 2/18/98, effective 3/21/98.]

WAC 173-308-170 Pathogen reduction. This section contains the requirements for biosolids to be classified either Class A or Class B with respect to pathogens.

The Class A pathogen reduction requirements must be met at the same time or before the vector attraction reduction requirements in WAC 173-308-180 (1), (2), or (3).

(1) **Class A - Alternative 1: Time and Temperature.**

(a) ***Fecal coliform or Salmonella sp. bacteria density.*** The density of fecal coliform in the biosolids must be less than 1000 Most Probable Number per gram of total solids (dry weight basis) or the density of *Salmonella* sp. bacteria in the biosolids must be less than three Most Probable Number per four grams of total solids (dry weight basis) at the time the biosolids are used, at the time the biosolids are prepared for sale or give away in a bag or other container for application to the land, or at the time the biosolids or material derived from biosolids is prepared to meet the requirements for exemption in WAC 173-308-200, and one of the requirements in (b) through (e) of this subsection must be met.

(b) When the percent solids of the biosolids is seven percent or higher, the temperature of the biosolids must be 50°C (122°F) or higher, the time period must be twenty minutes or longer, and the temperature and time period must be determined using equation (1), except when small particles of biosolids are heated by either warmed gases or an immiscible liquid.

$$D = \frac{131{,}700{,}000}{10^{0.1400t}} \qquad \text{Equation (1)}$$

Where:

D = time in days

t = temperature in degrees Celsius

(c) When the percent solids of the biosolids is seven percent or higher and small particles of biosolids are heated by either warmed gases or an immiscible liquid, the temperature of the biosolids must be 50°C (122°F) or higher, the time period must be fifteen seconds or longer, and the temperature and time period must be determined using equation (1).

(d) When the percent solids of the biosolids is less than seven percent and the time period is at least fifteen seconds, but less than thirty minutes, the temperature and time period must be determined using equation (1).

(e) When the percent solids of the biosolids is less than seven percent, the temperature of the biosolids is 50°C (122°F) or higher, and the time period is thirty minutes or longer, the temperature and time period must be determined using equation (2).

$$D = \frac{50{,}070{,}000}{10^{0.1400t}} \quad \text{Equation (2)}$$

Where:

D = time in days
t = temperature in degrees Celsius

(2) **Class A - Alternative 2: pH, Time, Temperature, and Percent Solids.**

(a) ***Fecal coliform or Salmonella sp. bacteria density.*** The density of fecal coliform in the biosolids must be less than 1000 Most Probable Number per gram of total solids (dry weight basis) or the density of *Salmonella* sp. bacteria in the biosolids must be less than three Most Probable Number per four grams of total solids (dry weight basis) at the time the biosolids are used, at the time the biosolids are prepared for sale or give away in a bag or other container for application to the land, or at the time the biosolids or material derived from biosolids is prepared to meet the requirements for exemption in WAC 173-308-200, and the requirements in (b) of this subsection must be met.

(b) The pH of the biosolids that are used must be raised to above twelve and remain above twelve for seventy-two hours.

(i) The temperature of the biosolids must be above 52°C (126°F) for twelve hours or longer during the period that the pH of the biosolids is above twelve.

(ii) At the end of the seventy-two-hour period during which the pH of the biosolids is above twelve, the biosolids must be air dried to achieve a percent solids in the biosolids greater than fifty percent.

(3) **Class A - Alternative 3: Processes to Further Reduce Pathogens.**

(a) ***Fecal coliform or Salmonella sp. bacteria density.*** The density of fecal coliform in the biosolids must be less than 1000 Most Probable Number per gram of total solids (dry weight basis) or the density of *Salmonella* sp. bacteria in the biosolids must be less than three Most Probable Number per four grams of total solids (dry weight basis) at the time the biosolids are used, at the time the biosolids are prepared for sale or give away in a bag or other container for application to the land, or at the time the biosolids or material derived from biosolids is prepared to meet the requirements for exemption in WAC 173-308-200, and one of the requirements in (b)(i) through (vii) of this subsection must be met.

(b) ***Processes to further reduce pathogens.*** The biosolids must be treated in one of the processes to further reduce pathogens described in this subsection.

(i) *Composting*.

(A) Using either the within-vessel composting method or the static aerated pile composting method, the temperature of the biosolids must be maintained at 55°C (131°F) or higher for three days.

(B) Using the windrow composting method, the temperature of the biosolids must be maintained at 55°C (131°F) or higher for fifteen days or longer. During the period when the compost is maintained at 55°C (131°F) or higher, there must be a minimum of five turnings of the windrow.

(ii) *Heat drying*. Biosolids must be dried by direct or indirect contact with hot gases to reduce the moisture content of the biosolids to ten percent or less and one of the following requirements must be met.

(A) The temperature of the biosolids particles must exceed 80°C (176°F).

(B) The wet bulb temperature of the gas in contact with the biosolids as the biosolids leave the dryer must exceed 80°C (176°F).

(iii) *Heat treatment*. Liquid biosolids must be heated to a temperature of 180°C (356°F) or higher for thirty minutes.

(iv) *Thermophilic aerobic digestion*. Liquid biosolids must be agitated with air or oxygen to maintain aerobic conditions and the mean cell residence time of the biosolids must be at least ten days at 55 to 60°C (131 to 140°F).

(v) *Beta ray irradiation*. Biosolids must be irradiated with beta rays from an accelerator at dosages of at least 1.0 megarad at room temperature (ca. 20°C (68°F)).

(vi) *Gamma ray irradiation*. Biosolids must be irradiated with gamma rays from certain isotopes, such as Cobalt 60 and Cesium 137, at room temperature (ca. 20°C (68°F)).

(vii) *Pasteurization*. The temperature of the biosolids must be maintained at 70°C (158°F) or higher for thirty minutes or longer.

(4) **Class A - Alternative 4: Equivalent Process to Further Reduce Pathogens.**

(a) ***Fecal coliform or Salmonella sp. bacteria density.*** The density of fecal coliform in the biosolids must be less than 1000 Most Probable Number per gram of total solids (dry weight basis) or the density of *Salmonella* sp. bacteria in the biosolids must be less than three Most Probable Number per four grams of total solids (dry weight basis) at the time the biosolids are used, at the time the biosolids are prepared for sale or give away in a bag or other container for application to the land, or at the time the biosolids or material derived from biosolids is prepared to meet the requirements for exemption in WAC 173-308-200, and the requirements in (b) of this subsection must be met.

(b) The biosolids must be treated in a process that is equivalent to a process to further reduce pathogens. Pathogen equivalency for biosolids applied to land under jurisdiction of the state of Washington will be determined by the department or by the EPA with the approval and concurrence of the department.

(5) **Class B - Alternative 1: Testing.** A minimum of seven samples of the biosolids must be collected at the time the biosolids are used, and the geometric mean of the density of fecal coliform of the samples must be less than 2,000,000 Most Probable Number per gram of total solids (dry weight basis) or 2,000,000 Colony Forming Units per gram of total solids (dry weight basis).

(6) **Class B - Alternative 2: Process to Significantly Reduce Pathogens.** The biosolids must be treated in one of the processes to significantly reduce pathogens described in (a) through (e) of this subsection.

(a) ***Aerobic digestion.*** The biosolids must be agitated with air or oxygen to maintain aerobic conditions for a specific mean cell residence time at a specific temperature. Values for the mean cell residence time and temperature must be between forty days at 20°C (68°F) and sixty days at 15°C (59°F).

(b) ***Air drying.*** The biosolids must be dried on sand beds or on paved or unpaved basins. The biosolids must dry for a minimum of three months. During two of the three months, the ambient average daily temperature must be above 0°C (32°F). During the air drying period, no additional material may be added.

(c) ***Anaerobic digestion.*** The biosolids must be treated in the absence of air for a specific mean cell residence time at a specific temperature. Values for the mean cell residence time and temperature must be between fifteen days at 35 to 55°C (95 to 131°F) and sixty days at 20°C (68°F).

(d) ***Composting.*** Using the within-vessel, static aerated pile, or windrow composting methods, the temperature of the biosolids must be raised to 40°C (104°F) or higher and remain at 40°C (104°F) or higher for five days. For four hours during the five days, the temperature in the compost pile must exceed 55°C (131°F).

(e) ***Lime stabilization.*** Sufficient lime must be added to the biosolids to raise the pH of the biosolids to twelve after two hours of contact.

(7) **Class B - Alternative 3: Equivalent Process to Significantly Reduce Pathogens.** The biosolids must be treated in a process that is equivalent to a process to significantly reduce pathogens. Pathogen equivalency for biosolids applied to land under jurisdiction of the state of Washington will be determined by the department or by the EPA with the approval and concurrence of the department.

[Statutory Authority: Chapters 70.95J and 70.95 RCW. 07-12-010 (Order 06-06), § 173-308-170, filed 5/24/07, effective 6/24/07. Statutory Authority: RCW 70.95J.020 and 70.95.255. 98-05-101 (Order 97-30), § 173-308-170, filed 2/18/98, effective 3/21/98.]

WAC 173-308-180 Vector attraction reduction. When vector attraction reduction is accomplished prior to application of biosolids to the land, the requirements in one of subsections (1) through (6) of this section must be met.

The vector attraction reduction requirements in subsection (1), (2), or (3) of this section must be met at the same time or after the Class A pathogen requirements in WAC 173-308-170.

(1) **Alternative 1: Volatile Solids Reduction.** The mass of volatile solids in the biosolids must be reduced by a minimum of thirty-eight percent.

(a) ***Bench-scale test for anaerobically digested solids.*** When the thirty-eight percent volatile solids reduction requirement in this subsection cannot be met for anaerobically digested biosolids, vector attraction reduction can be demonstrated by digesting a portion of the previously digested biosolids anaerobically in the laboratory in a bench-scale unit for forty additional days at a temperature between 30 and 37°C (86 and 98.6°F). After the forty-day period, the vector attraction reduction requirement is met if the volatile solids in the biosolids at the beginning of that period are reduced by less than seventeen percent.

(b) ***Bench-scale test for aerobically digested solids.*** When the thirty-eight percent volatile solids reduction requirement in this subsection cannot be met for aerobically digested biosolids, vector attraction reduction can be demonstrated by digesting a portion of the previously digested biosolids that has a percent solids of two percent or less aerobically in the laboratory in a bench-scale unit for thirty additional days at 20°C (68°F). After the thirty-day period, the vector attraction reduction requirement is met if the volatile solids in the biosolids at the beginning of that period are reduced by less than fifteen percent.

(2) **Alternative 2: Specific Oxygen Uptake Rate (SOUR).** The specific oxygen uptake rate (SOUR) for biosolids treated in an aerobic process must be less than or equal to 1.5 milligrams of oxygen per hour per gram of total solids (dry weight basis) at a temperature of 20°C (68°F).

(3) **Alternative 3: Aerobic Process.** The biosolids must be treated in an aerobic process for fourteen days or longer. During that time, the temperature of the biosolids must be higher than 40°C (104°F) and the average temperature of the biosolids must be higher than 45°C (113°F).

(4) **Alternative 4: pH Adjustment.** The pH of the biosolids must be raised to twelve or higher by alkali addition and, without the addition of more alkali, must remain at twelve or higher for two hours and then at 11.5 or higher for an additional twenty-two hours.

(5) **Alternative 5: Percent Solids for Stabilized Solids.** For biosolids that do not contain unstabilized solids generated in a primary wastewater treatment process, the percent solids must be equal to or greater than seventy-five percent based on the moisture content and total solids prior to mixing with other materials.

(6) **Alternative 6: Percent Solids for Unstabilized Solids.** For biosolids that contain unstabilized solids generated in a primary wastewater treatment process, the percent solids must be equal to or greater than ninety percent based on the moisture content and total solids prior to mixing with other materials.

[Statutory Authority: Chapters 70.95J and 70.95 RCW. 07-12-010 (Order 06-06), § 173-308-180, filed 5/24/07, effective 6/24/07. Statutory Authority: RCW 70.95J.020 and 70.95.255. 98-05-101 (Order 97-30), § 173-308-180, filed 2/18/98, effective 3/21/98.]

WAC 173-308-190 Protecting waters of the state—Agronomic rate requirement. (1) Biosolids must be applied to the land in a manner approved by the department and at agronomic rates, except when approved by the department for land reclamation sites in accordance with subsection (3) of this section or for research purposes when approved by the department in accordance with WAC 173-308-192 or in a site-specific land application plan developed under WAC 173-308-310(8).

(2) Agronomic rate determinations must take into account nitrogen supplied from other sources such as manures, cover crops, and commercial fertilizers as well as biosolids.

(3) Biosolids applied to land reclamation sites may be applied in excess of agronomic rates if approved by the department in a site specific land application plan developed under WAC 173-308-310(8).

(4) The person who prepares exceptional quality biosolids that are sold or given away to another person must provide sufficient information to allow the person who receives the biosolids to determine an agronomic rate of application.

(5) The person who applies exceptional quality biosolids to the land is responsible for compliance with the agronomic rate requirement in this section.

(6) When the potential for ground water contamination due to biosolids application exists, the department may require ground water monitoring or other conditions in accordance with the provisions of chapter 173-200 WAC. If it is determined that an enforcement criterion may be violated, an evaluation must be conducted to demonstrate compliance with the provisions of chapter 173-200 WAC.

[Statutory Authority: Chapters 70.95J and 70.95 RCW. 07-12-010 (Order 06-06), § 173-308-190, filed 5/24/07, effective 6/24/07. Statutory Authority: RCW 70.95J.020 and 70.95.255. 98-05-101 (Order 97-30), § 173-308-190, filed 2/18/98, effective 3/21/98.]

WAC 173-308-191 Protection of endangered or threatened species. Biosolids may not be applied to the land if they are likely to adversely affect a threatened or endangered species or its critical habitat as listed under Title 232 WAC or section 4 of the Endangered Species Act.

[Statutory Authority: Chapters 70.95J and 70.95 RCW. 07-12-010 (Order 06-06), § 173-308-191, filed 5/24/07, effective 6/24/07.]

WAC 173-308-192 Exemptions for research. For the purposes of furthering necessary research, the land application of nonexceptional quality biosolids is exempt from the agronomic rate requirements in WAC 173-308-190 or 173-308-270, the reporting requirements in WAC 173-308-295, and the permitting requirements in WAC 173-308-310 if all of the following requirements are met:

(1) A research proposal must be submitted containing, at a minimum, the following:

(a) A description of the nature of the project, what may be learned, the anticipated benefits, provisions for progress reports, provisions for peer review, and provisions for providing a final report to the department.

(b) A discussion of any potential adverse impacts of application rates in excess of agronomic rates, along with potential mitigation or response to adverse effects if observed.

(c) An explanation for the sizing of the research plot(s) that will receive biosolids. Plot size must not exceed the minimum area required to support the goals of the research.

(2) The generator of the biosolids must report the dry tons of biosolids land applied in the research project in their annual biosolids report required under WAC 173-308-295.

(3) The department must approve, in writing, the research proposal required in subsection (1) of this section.

(4) There must be no sustainable objections to the approval required in subsection (3) of this section from the EPA or the local health jurisdiction(s) in the county(s) where the biosolids will be managed.

(5) All other applicable requirements of this chapter must be met.

(6) All other local, state, and federal regulatory requirements must be met.

[Statutory Authority: Chapters 70.95J and 70.95 RCW. 07-12-010 (Order 06-06), § 173-308-192, filed 5/24/07, effective 6/24/07.]

WAC 173-308-193 Management and exemptions for septage from composting toilets. (1) The residual solids from composting toilet systems (also known as "waterless toilets") that receive only domestic waste are considered to be septage.

(2) Septage from composting toilet systems must either be sent to a permitted facility for further treatment, or it must be managed in accordance with the requirements in WAC 173-308-270 and other applicable sections of this chapter.

(3) Unless a permit is otherwise required by the department, persons who land apply septage from composting toilet systems and sites where the septage is applied are exempt from the reporting requirements in WAC 173-308-295 and the permitting requirements in WAC 173-308-310.

(4) All other applicable requirements of this chapter must be met.

(5) All other local, state, and federal regulatory requirements must be met.

[Statutory Authority: Chapters 70.95J and 70.95 RCW. 07-12-010 (Order 06-06), § 173-308-193, filed 5/24/07, effective 6/24/07.]

WAC 173-308-200 Exemptions based on the exceptional quality of biosolids. The person who prepares and the person who applies biosolids that meet the exceptional quality standards are exempt from the following requirements:

(1) The requirement in WAC 173-308-120(6) for obtaining prior written approval of the landowner.

(2) The site management and access restrictions in WAC 173-308-210(5) except where, on a case-by-case basis, the director applies any or all restrictions after determining that the requirements are necessary to protect public health and the environment from any adverse effect that may occur from a pollutant in the bulk biosolids.

(3) The recordkeeping and certification requirements in WAC 173-308-290(3).

(4) The requirement in WAC 173-308-300 (6)(c) for submittal of a land application plan when used as a component of intermediate or final cover at a municipal solid waste landfill.

(5) The land application plan requirements of WAC 173-308-310(8), except as provided in WAC 173-308-310 (8)(a)(ii) or (iii).

[Statutory Authority: Chapters 70.95J and 70.95 RCW. 07-12-010 (Order 06-06), § 173-308-200, filed 5/24/07, effective 6/24/07. Statutory Authority: RCW 70.95J.020 and 70.95.255. 98-05-101 (Order 97-30), § 173-308-200, filed 2/18/98, effective 3/21/98.]

WAC 173-308-205 Significantly remove manufactured inerts. (1) Except for sewage sludge approved for long-term disposal in accordance with WAC 173-308-300(9), all biosolids (including septage) or sewage sludge must be treated by a process such as physical screening or another method to significantly remove manufactured inerts prior to final disposition. Meeting this requirement may occur at any point in the wastewater treatment or biosolids manufacturing process.

(2) **Options for meeting the requirement.** Meeting the requirement in subsection (1) of this section can be accomplished by either of the following:

(a) Screening through a bar screen with a maximum aperture of 3/8 inch (0.95 cm).

(b) Obtaining approval from the department for an alternative method that achieves a removal rate similar to or greater than that achieved by the screening standard in (a) of this subsection.

(3) **Timing for meeting the requirement.** The requirement in subsection (1) of this section must be met by July 1, 2012, or at the time of final disposition if the material will not be managed prior to July 1, 2012.

(4) Regardless of the date that the requirement in subsection (1) of this section is met, biosolids (including septage) that are land applied or sold/given away in a bag or other container must contain less than one percent by volume recognizable manufactured inerts.

[Statutory Authority: Chapters 70.95J and 70.95 RCW. 07-12-010 (Order 06-06), § 173-308-205, filed 5/24/07, effective 6/24/07.]

WAC 173-308-210 Bulk biosolids applied to agricultural land, forest land, a public contact site, or a land reclamation site. (1) Bulk biosolids applied to agricultural land, forest land, a public contact site, or a land reclamation site must meet the requirements for a significant reduction in manufactured inerts in WAC 173-308-205.

(2) **Pollutant concentrations.**

(a) The concentration of a pollutant in bulk biosolids that are applied to agricultural land, forest land, a public contact site, or a land reclamation site may not exceed the allowable ceiling limit in Table 1 of WAC 173-308-160.

(b) If the concentration of a pollutant in bulk biosolids that are applied to agricultural land, forest land, a public contact site, or a land reclamation site exceeds the pollutant concentration limits in Table 3 of WAC 173-308-160, then the total cumulative loading rate for each pollutant may not exceed the limit in Table 2 of WAC 173-308-160, and the requirements in WAC 173-308-160(2) must be met.

(3) **Pathogens.** Bulk biosolids that are applied to agricultural land, forest land, a public contact site, or a land reclamation site must be Class A for pathogens, or they must be Class B for pathogens and the site management and access restrictions in subsection (5) of this section must be met.

(4) **Vector attraction reduction.** Bulk biosolids that are applied to agricultural land, forest land, a public contact site, or a land reclamation site must meet one of the vector attraction reduction requirements in WAC 173-308-180 (1) through (6) before they are applied to the land, or the requirements of (a) or (b) of this subsection must be met.

(a) ***Injection*.** The biosolids must be injected below the surface of the land and the following requirements must be met, as applicable.

(i) No significant amount of the biosolids may be present on the land surface within one hour after the biosolids are injected.

(ii) When the biosolids are Class A for pathogens, the biosolids must be injected below the land surface within eight hours after being discharged from the pathogen treatment process.

(b) ***Incorporation*.** Biosolids must be incorporated into the soil within six hours after application to the land. When biosolids that are incorporated into the soil are Class A with respect to pathogens, the biosolids must be applied to the land within eight hours after being discharged from the pathogen treatment process.

(5) **Site management and access restrictions.**

(a) ***Class B biosolids.*** The site management and access restrictions in (a) and (b) of this subsection are applicable to biosolids that are Class B for pathogens.

(i) Food crops, feed crops, and fiber crops must not be harvested for a minimum of thirty days after the last application of biosolids.

(ii) Food crops with harvested parts that touch the biosolids/soil mixture and are totally above the land surface must not be harvested for a minimum of fourteen months after the last application of biosolids.

(iii) Food crops with harvested parts below the surface of the land must not be harvested for a minimum of twenty months after the last application of biosolids when the biosolids remain on the land surface for four months or longer prior to incorporation into the soil.

(iv) Food crops with harvested parts below the surface of the land must not be harvested for thirty-eight months after application of biosolids when the biosolids remain on the land surface for less than four months prior to incorporation into the soil.

(v) Livestock must not be allowed to graze on the land for a minimum of thirty days after the last application of biosolids.

(vi) Turf grown on land where biosolids are applied must not be harvested for a minimum of one year after the last application of the biosolids unless otherwise specified by the department.

(vii) Public access to land with a high potential for public exposure must be restricted for a minimum of one year after the last application of biosolids.

(viii) Public access to land with a low potential for public exposure must be restricted for a minimum of thirty days after the last application of biosolids.

(ix) Biosolids must not be applied to the land within one hundred feet (30.5 meters) of a well unless otherwise approved in a permit issued in accordance with the requirements of this chapter.

(x) During the time when access is restricted, signs must be posted around the application site at all significant points of access and at least every 1/2 mile (805 meters) around the perimeter of the site. Unless the department has approved the substitution of "no trespassing" signs for informational signs, signs must contain at least the following:

(A) The name and address or phone number of the generator and if different, the person who applies.

(B) The names, addresses, and phone numbers of the regulatory and permitting authorities.

(C) The material that is being applied (biosolids or a more detailed description).

(D) Notice that access is restricted, and if desired, the date after which access is no longer restricted.

(E) If applicable, a notice on limitations regarding the harvest of edible plants from the site.

It is a violation of these rules for any person to remove a sign posted in accordance with the requirements of this subsection during the period when access is restricted.

(b) ***Nonexceptional quality biosolids.*** The following site management restrictions are applicable to nonexceptional quality biosolids when they are applied to agricultural land, forest land, a public contact site, or a land reclamation site:

(i) Bulk biosolids may not be applied to land that is thirty-three feet (10 meters) or less from surface waters of the state, unless otherwise specified by the department.

(ii) Bulk biosolids may not be applied to the land so that they enter a wetland or waters of the state, unless approved in a permit issued by the department or by EPA with the approval of the department.

[Statutory Authority: Chapters 70.95J and 70.95 RCW. 07-12-010 (Order 06-06), § 173-308-210, filed 5/24/07, effective 6/24/07. Statutory Authority: RCW 70.95J.020 and 70.95.255. 98-05-101 (Order 97-30), § 173-308-210, filed 2/18/98, effective 3/21/98.]

WAC 173-308-250 Bulk biosolids applied to a lawn or home garden. (1) Bulk biosolids applied to a lawn or home garden must meet the requirements for a significant reduction in manufactured inerts in WAC 173-308-205.

(2) Bulk biosolids that are applied to a lawn or home garden must meet the exceptional quality standards.

[Statutory Authority: Chapters 70.95J and 70.95 RCW. 07-12-010 (Order 06-06), § 173-308-250, filed 5/24/07, effective 6/24/07. Statutory Authority: RCW 70.95J.020 and 70.95.255. 98-05-101 (Order 97-30), § 173-308-250, filed 2/18/98, effective 3/21/98.]

WAC 173-308-260 Biosolids sold or given away in a bag or other container. (1) Biosolids sold or given away in a bag or other container must meet the requirements for a significant reduction in manufactured inerts in WAC 173-308-205.

(2) Biosolids sold or given away in a bag or other container must meet the exceptional quality standards.

(3) **Label or information sheet required.** Any person who prepares biosolids that are sold or given away in a bag or other container in the state of Washington, must comply with the requirements of this subsection when the biosolids product is prepared or derived from nonexceptional quality biosolids.

(a) A label must be affixed to the bag or other container in which biosolids are sold or given away, or an information sheet must be provided to the person who receives biosolids that are sold or given away in a bag or other container. The label or information sheet must contain the following information:

(i) The name, address, and phone number of the person who prepared the biosolids.

(ii) A statement or information indicating that the product complies with applicable regulations for biosolids or that the product has been prepared to meet standards that make it safe for its intended use when used in accordance with the directions provided by the manufacturer.

(iii) A statement or information that encourages proper use of the product and protection of public health and the environment. This may include information on product storage, hygiene, and protection of surface or ground water resources.

(iv) Agronomic rates for typical applications or guidance on how to determine the agronomic rate of application.

(v) A statement or information indicating that the product contains or is derived from biosolids.

(vi) Unless registered as a fertilizer by the Washington state department of agriculture, a disclaimer stating that the product is not a commercial fertilizer and that all nutrient claims are estimates or averages and not guaranteed.

(b) Any person who prepares biosolids that are sold or distributed outside the jurisdiction of the state of Washington must comply with the requirements in 40 CFR Part 503.14(e), as applicable.

[Statutory Authority: Chapters 70.95J and 70.95 RCW. 07-12-010 (Order 06-06), § 173-308-260, filed 5/24/07, effective 6/24/07. Statutory Authority: RCW 70.95J.020 and 70.95.255. 98-05-101 (Order 97-30), § 173-308-260, filed 2/18/98, effective 3/21/98.]

WAC 173-308-270 Septage applied to the land. This section contains the requirements for the land application of septage as defined in WAC 173-308-080.

This section does not apply to "septage managed as biosolids originating from sewage sludge" as defined in WAC 173-308-080. Facilities who seek to manage their septage as biosolids must meet all of the requirements applicable to the particular classification of biosolids into which it falls.

(1) Septage applied to the land must meet the requirements for a significant reduction in manufactured inerts in WAC 173-308-205.

(2) Septage may not be applied to a public contact site, a lawn, or a home garden.

(3) **Pathogen reduction and vector attraction reduction.**

(a) For loads of septage that are composed of at least seventy-five percent by volume of septage from households, one of the following requirements must be met:

(i) The septage must be injected below the surface of the land and no significant amount of septage may be present on the land surface within one hour after the septage is injected.

(ii) Septage must be incorporated into the soil within six hours after application to the land.

(iii) The pH of the septage must be raised to twelve or higher and must remain at twelve or higher for a minimum of thirty minutes.

(A) A minimum of two tests for pH must be conducted for each load applied to the land.

(B) The first test must occur after a pH of twelve or higher has been attained.

(C) The second test must occur no less than thirty minutes after the first test to show that a pH of twelve or higher has been retained.

(D) If the pH has dropped below twelve when the second test is conducted, the stabilization process must be restarted.

(b) For loads of septage not composed of at least seventy-five percent by volume of septage from households, the requirements in (a)(iii) of this subsection must be met.

(4) **Site management and access restrictions.** All of the following site management and access restrictions are applicable when septage is applied to the land:

(a) Food crops, feed crops, and fiber crops must not be harvested for thirty days after the application of septage.

(b) Food crops with harvested parts that touch the septage/soil mixture and are totally above the land surface must not be harvested for a minimum of fourteen months after the last application of septage.

(c) Food crops with harvested parts below the surface of the land must not be harvested for a minimum of twenty months after the last application of septage when the septage remains on the land surface for four months or longer prior to incorporation into the soil.

(d) Food crops with harvested parts below the surface of the land must not be harvested for a minimum of thirty-eight

months after the last application of septage when the septage remains on the land surface for less than four months prior to incorporation into the soil.

(e) Septage must not be applied to land that is one hundred feet (30.5 meters) or less from surface waters of the state, unless otherwise specified by the department.

(f) Septage must not be applied to the land so that it enters a wetland or waters of the state, unless approved in a permit issued by the department, or by EPA with the approval of the department.

(g) Septage must not be applied to the land within one hundred feet (30.5 meters) of a well unless approved in a permit issued by the department.

(h) Domestic animals must not be allowed to graze on the land for a minimum of thirty days after the last application of septage.

(i) Public access to land with a high potential for public exposure must be restricted for a minimum of one year after the last application of septage.

(j) Public access to land with a low potential for public exposure must be restricted for a minimum of thirty days after the last application of septage.

(k) During the time when access is restricted, signs must be posted around the application site at all significant points of access and at least every 1/2 mile (805 meters) around the perimeter of the site. Unless the department has approved the substitution of "no trespassing" signs for informational signs, signs must contain at least the following:

(i) The name and address or phone number of the generator and if different, the person who applies.

(ii) The names, addresses, and phone numbers of the regulatory and permitting authorities.

(iii) The material that is being applied (septage or a more detailed description).

(iv) Notice that access is restricted, and if desired, the date after which access is no longer restricted.

(v) If applicable, a notice on limitations regarding the harvest of edible plants from the site.

It is a violation of these rules for any person to remove a sign posted in accordance with the requirements of this subsection during the period when access is restricted.

(5) **Application rates.**

(a) Septage that is applied to the land must be applied at a rate not exceeding the rate determined by equation (3).

(b) At its discretion, the department may require the use of a different approach for calculating application rates based on the mixture ratios and site specific criteria, but at no time may the rate exceed that calculated by equation (3).

Equation (3)

$$AAR = \frac{N}{0.0026}$$

Where:

AAR = Annual application rate in gallons per acre per 365-day period.

N = Amount of nitrogen in pounds per acre per 365-day period needed by the crop or vegetation grown on the land (*subtract any nitrogen supplied by other sources - for example, commercial fertilizers or manures*).

(6) **Spreader drive length.** To determine the distance (in feet) over which a load of liquid septage should be spread to meet the application rate, use equation (4).

Equation (4)

Drive length (in feet) = gallons in spreader ÷ spread width (in feet) x 43,560 ÷ AAR

Where:

AAR = Annual application rate in gallons per acre per 365-day period.

(7) **Monitoring.**

(a) Samples of septage that are collected and analyzed must be representative of the septage that is applied to the land.

(b) When septage is applied to the land and pH adjustment as described in subsection (3)(a)(iii) of this section is used to meet the pathogen and vector attraction reduction requirements, each container of septage that is applied to the land must be monitored to determine compliance with the pH requirements.

[Statutory Authority: Chapters 70.95J and 70.95 RCW. 07-12-010 (Order 06-06), § 173-308-270, filed 5/24/07, effective 6/24/07. Statutory Authority: RCW 70.95J.020 and 70.95.255. 98-05-101 (Order 97-30), § 173-308-270, filed 2/18/98, effective 3/21/98.]

WAC 173-308-280 Requirements for facilities storing biosolids or sewage sludge. (1) Facilities storing biosolids or sewage sludge under a local, state, or federal water pollution control permit or another environmental permit and facilities conducting temporary, small-scale storage as defined in WAC 173-308-080 are exempt from this section if the department determines that the standards in subsection (3) of this section are being met.

(2) Facilities other than those in subsection (1) of this section storing biosolids or sewage sludge must do so in accordance with the provisions of a permit issued under this chapter.

(3) Biosolids or sewage sludge may not be stored in a manner that would be likely to result in the contamination of ground water, surface water, air, or land under current conditions or in the case of fire or flood.

(4) Facilities existing on July 1, 2007, storing liquid biosolids or sewage sludge in surface impoundments must meet the requirements for the design, construction, and operation of surface impoundments in chapter 173-304 WAC or the standards in chapter 173-350 WAC.

(5) After July 1, 2007, new facilities proposing to store biosolids or sewage sludge in surface impoundments, facilities that are proposing a new surface impoundment, and facilities that are proposing to upgrade existing surface impoundments must meet the requirements for the design, construction, and operation of surface impoundments in chapter 173-350 WAC.

[Statutory Authority: Chapters 70.95J and 70.95 RCW. 07-12-010 (Order 06-06), § 173-308-280, filed 5/24/07, effective 6/24/07. Statutory Authority: RCW 70.95J.020 and 70.95.255. 98-05-101 (Order 97-30), § 173-308-280, filed 2/18/98, effective 3/21/98.]

WAC 173-308-290 Recordkeeping. The person who prepares biosolids or sewage sludge, the person who applies nonexceptional quality biosolids to the land, and the person

who applies septage to the land must keep certain records and certification statements as described in this section.

(1) A responsible official as described in WAC 173-308-310(10) must sign all certification statements required under this section.

(2) **Preparers of biosolids or sewage sludge.** The person who prepares biosolids or sewage sludge must keep the following records, as applicable, and certification statement for five years:

(a) The amount applied by the preparer/preparer's agent to agricultural land.

(b) The amount applied by the preparer/preparer's agent to forest land.

(c) The amount applied by the preparer/preparer's agent to a public contact site.

(d) The amount applied by the preparer/preparer's agent to a land reclamation site.

(e) The amount applied by the preparer/preparer's agent to a lawn or home garden.

(f) The amount sold or given away by the preparer in a bag or other container.

(g) The amount sold or given away by the preparer in bulk form (does not include that provided to the preparer's agent).

(h) The amount in a compost or blended biosolids product sold or given away by the preparer.

(i) The amount sent to a municipal solid waste landfill for disposal and the name of the landfill.

(j) The amount stored on-site.

(k) The amount transferred to another facility for further treatment and the name of the other treatment facility.

(l) The amount received from another facility and the name of the other facility.

(m) The amount transferred for incineration and the name of the incineration facility.

(n) Laboratory analysis data showing that the pollutant ceiling concentrations in WAC 173-308-160 Table 1 were met.

(o) Laboratory analysis data showing that the pollutant concentrations in WAC 173-308-160 Table 3 were met.

(p) Process monitoring and/or laboratory analysis data showing that the pathogen reduction requirements in WAC 173-308-170 were met and a description of how the requirements were met.

(q) If the vector attraction reduction requirements in WAC 173-308-180 were met, process monitoring and/or laboratory analysis data and a description of how the requirements were met.

(r) Laboratory analysis data showing the nitrogen concentration.

CERTIFICATION STATEMENT:
"I certify, under penalty of law, that the following were met (check boxes, as applicable):
❏ The pollutant ceiling concentration limits in WAC 173-308-160 Table 1.
❏ The pollutant concentration limits in WAC 173-308-160 Table 3.
❏ The Class A pathogen reduction requirements in WAC 173-308-170: ❏(1), ❏(2), ❏(3), ❏(4).
❏ The Class B pathogen reduction requirements in WAC 173-308-170: ❏(5), ❏(6), ❏(7).
❏ The vector attraction reduction requirements in WAC 173-308-180: ❏(1), ❏(2), ❏(3), ❏(4), ❏(5), ❏(6).
This determination was made under my direction and supervision in accordance with a system designed to ensure that qualified personnel properly gather and evaluate the information used to determine that pathogen reduction requirements, vector attraction reduction requirements, and pollutant concentration limits have been met. I am aware that there are significant penalties for false certification including the possibility of fine and imprisonment."
Signature _____ Title _____
Date _____

(3) **Appliers of nonexceptional quality biosolids.** The person who applies nonexceptional quality biosolids must keep the following records, as applicable, and certification statement for five years or indefinitely where stated.

(a) The location of each site, either by street address, the latitude and longitude of the approximate center, or the section, township and range of each quarter section, **and** a map(s) with the application area(s) clearly shown.

(b) The number of acres in each site on which biosolids were applied.

(c) The date biosolids were applied to each site.

(d) The targeted vegetation grown on each site and its nitrogen requirement.

(e) The rate, in dry tons per acre per year, at which biosolids are applied to each site.

(f) The amount, in dry tons, of biosolids applied to each site.

(g) In addition, when biosolids with pollutants exceeding the WAC 173-308-160 Table 3 concentrations are applied, the following records must be kept indefinitely:

(i) The cumulative amount of each pollutant listed in WAC 173-308-160 Table 2 in the biosolids applied to each site.

(ii) A description of how the requirement to obtain information under WAC 173-308-160 (2)(b) was met.

(h) If the biosolids were Class B for pathogens, a description of how the site management and access restrictions in WAC 173-308-210 (5)(a) were met.

(i) If the vector attraction reduction requirements were not met prior to application, a description of how requirements in WAC 173-308-210 (5)(b) were met.

CERTIFICATION STATEMENT:
"I certify, under penalty of law, that the following were met (check boxes, as applicable):
❏ The requirement to obtain information under WAC 173-308-160 (2)(b) (required if any of the pollutant concentrations exceed those in WAC 173-308-160 Table 3).
❏ The vector attraction reduction requirement in ❏WAC 173-308-210(4): ❏(a) or ❏(b) (required if the vector attraction reduction requirements were not met prior to application).
❏ The site management and access restrictions in WAC 173-308-210(5): ❏(a) and/or ❏(b).

This determination was made under my direction and supervision in accordance with a system designed to ensure that qualified personnel properly gather and evaluate the information used to determine that the requirements to obtain information have been met, the site management and access restrictions have been met, and the vector attraction reduction requirements have been met. I am aware that there are significant penalties for false certification including fine and imprisonment."
Signature _____ Title _____
Date _____

(4) **Preparers or appliers of septage.** The person who prepares or applies septage to the land must keep the following records, as applicable, and certification statement for five years:

(a) The total number of gallons of septage managed.

(b) The total number of gallons of septage land applied.

(c) The number of gallons of septage managed in any manner other than land application (e.g., transfer to another facility).

(d) The location of each site, either by street address, the latitude and longitude of the approximate center, or the section, township, and range of each quarter section, **and** a map(s) with the application area(s) clearly shown.

(e) The number of acres in each site on which septage is applied.

(f) The date septage is applied to each site.

(g) The targeted vegetation grown on each site and its annual nitrogen requirement.

(h) The rate, in gallons per acre per year, at which septage is applied to each site.

(i) The number of gallons of septage applied to each site.

(j) The source of the septage, including the name and address of the individual or business where the septage was generated, or, in the case of a centralized septage treatment facility, the name of the person or business who delivered the septage, the dates of delivery, and how much septage was delivered.

(k) A description of how the pathogen and vector attraction reduction requirements in WAC 173-308-270(3) were met.

(l) If pH stabilization was used to meet the pathogen and vector attraction reduction requirements in WAC 173-308-270 (3)(a)(iii), pH measurements for each load.

(m) A description of how the applicable site management and access restriction requirements in WAC 173-308-270(4) were met.

CERTIFICATION STATEMENT:
"I certify, under penalty of law, that the following were met (check boxes, as applicable):
The pathogen and vector attraction reduction requirements in WAC 173-308-270(3): ❑(a)(i), ❑(a)(ii), or ❑(a)(iii).
The site management and access restriction requirements in ❑WAC 173-308-270(4).

This determination has been made under my direction and supervision in accordance with a system designed to ensure that qualified personnel properly gather and evaluate the information used to determine that the pathogen and vector attraction reduction requirements and site management and access restrictions have been met. I am aware that there are significant penalties for false certification including the possibility of fine and imprisonment."
Signature _____ Title _____
Date _____

[Statutory Authority: Chapters 70.95J and 70.95 RCW. 07-12-010 (Order 06-06), § 173-308-290, filed 5/24/07, effective 6/24/07. Statutory Authority: RCW 70.95J.020 and 70.95.255. 98-05-101 (Order 97-30), § 173-308-290, filed 2/18/98, effective 3/21/98.]

WAC 173-308-295 Annual reports. (1) All treatment works treating domestic sewage subject to this chapter must submit to the department by March 1 of each year, an annual report on a form provided by the department.

(2) All requested information that is required under this chapter or an applicable permit must be submitted.

[Statutory Authority: Chapters 70.95J and 70.95 RCW. 07-12-010 (Order 06-06), § 173-308-295, filed 5/24/07, effective 6/24/07. Statutory Authority: RCW 70.95J.020 and 70.95.255. 98-05-101 (Order 97-30), § 173-308-295, filed 2/18/98, effective 3/21/98.]

WAC 173-308-300 Disposal of sewage sludge in municipal solid waste landfill units and use of biosolids in municipal solid waste landfill operations. (1) When biosolids are placed in a municipal solid waste landfill unit they are considered solid waste (sewage sludge).

(2) Any landfill accepting sewage sludge for disposal must be in compliance with the requirements of chapter 173-351 WAC and 40 CFR Part 258.

(3) Sewage sludge that is disposed in a municipal solid waste landfill must meet the liquids in landfills restrictions of chapter 173-351 WAC.

(4) Sewage sludge that is disposed in a municipal solid waste landfill must not be hazardous waste as defined in chapter 173-303 WAC or 40 CFR Part 261.

(5) **Daily cover.** The use of sewage sludge as daily cover or as an amendment to daily cover is not a beneficial use and is considered disposal.

(6) **Intermediate or final cover.** The use of biosolids as a component of landfill intermediate or final cover is considered a beneficial use if the following conditions are met:

(a) The use is consistent with an approved landfill plan of operations or closure/post-closure plan.

(b) The biosolids are used for the purposes of establishing a vegetative cover.

(c) If the biosolids are nonexceptional quality, the department has approved a site specific land application plan that meets the requirements of WAC 173-308-310(8). For the purposes of this subsection, a site specific land application plan may recognize an approved plan of operations or closure/post-closure plan that addresses the substantive requirements of WAC 173-308-310(8).

(7) **Disposal on an emergency basis.**

(a) Facilities wishing to dispose of sewage sludge in a municipal solid waste landfill on an emergency basis must

meet the conditions of this subsection and those in chapter 173-351 WAC.

(b) The person proposing to dispose of sewage sludge must obtain a written determination from the local health jurisdiction where the sewage sludge is proposed for disposal that a potentially unhealthful circumstance exists under present conditions of management or would result from land application, and that other management options are unavailable or would pose a threat to human health or the environment.

(c) Upon making the determination in (b) of this subsection, the local health jurisdiction must notify the department in writing of its findings and the basis for its determination. In its notification, the local health jurisdiction must state the date on which disposal is approved to commence, any conditions, and the date after which disposal is prohibited.

(8) **Disposal on a temporary basis.**

(a) Any person wishing to dispose of sewage sludge in a municipal solid waste landfill on a temporary basis must submit a plan for approval to the department. The plan must include the following information:

(i) The conditions that make disposal necessary.

(ii) The steps that will be taken to correct the conditions that make disposal necessary so that disposal will not become a long-term management option.

(iii) A time table for implementing the steps to be taken to correct the conditions that make disposal necessary.

(b) The person proposing to dispose must provide the department with written approval for disposal from the local health jurisdiction in the receiving jurisdiction.

(9) **Disposal on a long-term basis.**

(a) Any person wishing to dispose of sewage sludge in a municipal solid waste landfill on a long-term basis must have authorization to do so in a valid NPDES or state waste discharge permit issued under chapter 90.48 RCW or a permit issued under this chapter, and the person must submit for approval to the department an evaluation of the various management options that demonstrates to the satisfaction of the department that options for beneficial use are economically infeasible.

(b) The person proposing to dispose must provide the department with written approval for disposal from the local health jurisdiction in the receiving jurisdiction.

[Statutory Authority: Chapters 70.95J and 70.95 RCW. 07-12-010 (Order 06-06), § 173-308-300, filed 5/24/07, effective 6/24/07. Statutory Authority: RCW 70.95J.020 and 70.95.255. 98-05-101 (Order 97-30), § 173-308-300, filed 2/18/98, effective 3/21/98.]

WAC 173-308-310 Permitting. (1) **Applicable facilities—Application required.** All treatment works treating domestic sewage are applicable facilities, and must apply for a permit for the final use or disposal of biosolids or sewage sludge except for certain composting toilet systems described in WAC 173-308-193 and certain composting facilities described in (a) of this subsection.

(a) ***Permitting exemption for some composting facilities.*** Facilities that compost biosolids or sewage sludge do not require permitting under this chapter if all of the following conditions are met:

(i) A permit is not otherwise required in order to comply with the Federal Clean Water Act.

(ii) The department and local health jurisdiction agree that a permit issued by the local health jurisdiction will be adequate.

(iii) The conditions of the permit issued by the local health jurisdiction meet or exceed the requirements of this chapter.

(iv) The department does not otherwise find that a state-issued permit is necessary because one or more of the conditions in (b)(i) through (iv) of this subsection exists.

(b) ***Designation as a treatment works treating domestic sewage.*** In addition to facilities meeting the definition of a treatment works treating domestic sewage in WAC 173-308-080, the department may designate any person, site, or facility that treats, uses, transports, stores, or applies biosolids, as a treatment works treating domestic sewage, and require the owner or operator to apply for a permit if any of the following conditions are met:

(i) The department determines that a permit is necessary to protect human health or the environment from the adverse effect of a pollutant in the biosolids.

(ii) The department determines that a permit is necessary to protect human health or the environment from poor biosolids management practices.

(iii) The department determines that a permit is necessary to ensure compliance with any of the requirements in this chapter.

(iv) Bulk biosolids or sewage sludge originating from a source or location outside the jurisdiction of the state of Washington are being applied to the land or received at any site or facility.

(c) It is a violation of this chapter for a facility to fail to submit a permit application to the department as required by these rules.

(2) **General and individual permits.** The department will issue permits for the treatment and final use or disposal of biosolids or sewage sludge.

(a) The department will issue, modify, revoke and reissue, and terminate general permits in accordance with the provisions of Appendix 5.

(b) The department will accept and consider applications for coverage under a general permit, modify conditions of coverage, revoke and reissue coverage, or terminate coverage under a general permit in accordance with the provisions of this section.

(c) The department will issue, modify, revoke and reissue, or terminate individual permits in accordance with the provisions of this section.

(3) **Requirements to apply for coverage under a general permit or to request an individual permit.**

(a) After the department has issued a general permit for the final use or disposal of biosolids or sewage sludge, all applicable facilities must apply for coverage under the general permit in accordance with subsection (4) of this section unless any of the following apply:

(i) The facility has a current individual permit issued under this chapter.

(ii) The department requires a facility to apply for an individual permit.

(iii) On written request of the applicant, the department has granted permission to apply for an individual permit.

(A) A facility may request an individual permit if a practice it proposes is not addressed in a general permit issued by the department.

(B) A facility may seek coverage under a general permit for any portion of its biosolids or sewage sludge management practices that are applicable under the general permit and may also request an individual permit for any portion of its biosolids or sewage sludge management practices that are not applicable under the general permit.

(iv) The department may require any facility applying for an individual permit under (a)(iii) of this subsection to limit its practices for the final use or disposal of biosolids or sewage sludge to those that are authorized in a general permit and to apply for coverage under a general permit.

(b) The department may notify a facility that it is covered by a general permit, even if the facility has not submitted a permit application as required under subsection (4) of this section.

(i) A facility so notified may request an individual permit in accordance with the provisions of (a)(iii) of this subsection.

(ii) Facilities that are notified of coverage under this subsection must submit a permit application as directed by the department.

(4) **Timing of permit applications.**

(a) ***Existing facilities seeking coverage under a general permit.*** Existing facilities seeking coverage under a general permit must submit an application for coverage within ninety days after issuance of the applicable general permit by the department. However, on a case-by-case basis the department's regional biosolids coordinator may grant an extension up to a maximum of one hundred eighty days after issuance of the applicable general permit. Requests for an extension must be made in accordance with the following:

(i) Requests must be made in writing to the applicable regional biosolids coordinator.

(ii) Requests must be made within ninety days after issuance of the applicable general permit.

(b) ***Existing facilities requesting an individual permit.*** Existing facilities that wish to request an individual permit under subsection (3)(a)(iii) of this section must do so within thirty days of issuance of an applicable general permit by the department.

(c) ***Facilities required or approved to apply for an individual permit.*** Facilities that have been directed by the department to apply for an individual permit under subsection (3)(a)(ii) of this section or approved to apply for an individual permit requested under subsection (3)(a)(iii) of this section must submit a permit application within ninety days of receiving notification.

(d) ***Facilities that have been denied an individual permit.*** Facilities that are denied an individual permit must submit an application for coverage under a general permit within sixty days after being denied an individual permit.

(e) ***New facilities***. New facilities being proposed after July 1, 2007, must submit an application for coverage under an applicable general permit or a request for an individual permit at least one hundred eighty days prior to engaging in applicable management activities.

(5) **Timing of notices of intent - continuing coverage.**

(a) All facilities permitted under this section must submit a notice of intent to continue coverage under a general permit or an application for a new individual permit, at least one hundred eighty days prior to the expiration date of their applicable permit.

(b) When a facility has submitted a timely and sufficient notice of intent or application as required in this subsection, an expiring permit remains in effect and enforceable until any of the following occur:

(i) The application has been denied.

(ii) A replacement permit has been issued by the department.

(iii) The department has cancelled the expired permit.

(c) Coverage under a permit for permittees who fail to submit a timely and sufficient application or notice of intent shall cease on the expiration date of the permit.

(6) **Permit application contents.** All facilities must submit a complete and factually correct permit application in accordance with the schedule established in WAC 173-308-310(4) on a form or in a format specified by the department. The content requirements are listed in Appendix 1.

(7) **Notices of intent contents.** Facilities submitting a notice of intent to be covered under an applicable general permit must do so on a form provided by the department. The content requirements are listed in Appendix 2.

(8) **Land application plans.**

(a) ***Exemptions for exceptional quality biosolids.*** Land application plans are not required when exceptional quality biosolids are applied to the land, except as specified in this subsection.

(i) Any person who prepares exceptional quality biosolids for application to the land must determine and assure to the extent practicable, through recordkeeping and other means, that all applicable criteria of this chapter and any applicable permit are met when bulk exceptional quality biosolids are applied to the land.

(ii) Any person who prepares exceptional quality biosolids for application to the land and who fails to satisfy the requirements in (a)(i) of this subsection, may be required to submit a general or site specific land application plan, or both, for any or all sites where bulk exceptional quality biosolids are applied to the land, and may also be required to comply with the public notice requirements in subsection (13) of this section.

(iii) The department may require a site specific land application plan for any site where bulk exceptional quality biosolids are proposed to be applied if the plan is necessary to evaluate potential permit conditions or if the department finds there would be a strong benefit to the public from the preparation of a site specific land application plan.

(iv) The department may require advance notice prior to the application of bulk exceptional quality biosolids to the land. In such case the department will notify the facility in writing of the conditions requiring advance notice, the length of advance notice required, and the length of time the requirement for advance notice will remain in effect.

(b) ***Nonexceptional quality biosolids.*** Land application plans are required when nonexceptional quality biosolids are applied to the land except when biosolids are delivered to a beneficial use facility as provided in (g) of this subsection.

Facilities that propose to apply nonexceptional quality biosolids to the land must do one or both of the following:

(i) Submit with their permit application a site specific land application plan for each site where biosolids will be applied during the life of the permit.

(ii) Submit with their permit application a general land application plan, and at a later date prior to applying biosolids, a site specific land application plan for each site where biosolids will be applied to the land.

(c) Any site specific land application plans must be consistent with a facility's general land application plan, if a general land application plan has been submitted.

(d) ***Site specific land application plan contents.*** Each site specific land application plan must provide information necessary to determine if the site is appropriate for land application of biosolids, and a description of how the site will be managed. The minimum content for site specific land application plans is listed in Appendix 3.

(e) ***General land application plan contents.*** Applicants intending to apply nonexceptional quality biosolids to sites for which a site specific land application plan is not submitted as a part of the permit application, must submit for approval as a part of their permit application a general land application plan.The minimum content for general land application plans is listed in Appendix 4.

(f) As individual sites are identified in accordance with the general land application plan in (e) of this subsection, facilities that seek to apply nonexceptional quality biosolids must develop and submit site specific land application plans in accordance with (d) of this subsection.

(g) ***Exemptions when sending biosolids to a permitted beneficial use facility.*** When biosolids are provided to a beneficial use facility that has been permitted as a treatment works treating domestic sewage, the person who prepares the biosolids is not required to prepare land application plans for the biosolids that will be applied to the beneficial use facility if all of the following conditions are met:

(i) The beneficial use facility's permit allows it to accept biosolids from the person who prepares biosolids.

(ii) As a part of the permit application or public notice, the person who prepares the biosolids identifies the beneficial use facility(ies) to which biosolids may be provided or specifies the criteria by which beneficial use facilities may be selected at a future date or states or indicates that it maintains the option to send its biosolids or sewage sludge to any facility permitted by the department to accept it for management.

(h) All land application plans, including those authorized under provisional approval in accordance with subsection (18)(a) of this section, are subject to review and final approval by the department. If a land application plan is found to be insufficient, the department may either request additional information or may impose additional requirements as a condition of approval in accordance with subsection (19) of this section.

(9) **Submitting permit applications and notices of intent.** Facilities must submit their permit application and notice of intent as follows:

(a) The original, in hardcopy form, to the biosolids coordinator in the regional office of the department where the facility is located.

(b) One copy, in either electronic or hardcopy form, to any other regional office of the department where the facility's biosolids or sewage sludge will be treated, stored, disposed, or applied to the land. The department encourages submittal in electronic form.

(c) One copy, in either electronic or hardcopy form, to the biosolids coordinator at the department's headquarters office. The department encourages submittal in electronic form.

(d) One copy, in either electronic or hardcopy form, to the local health jurisdiction in each county where biosolids or sewage sludge will be treated, stored, disposed, or applied to the land. The department encourages submittal in electronic form.

Local health jurisdictions that elect not to receive copies of notices of intent or permit applications may notify in writing the facility or the department that they do not wish to receive copies.

(10) **Signatories to permit applications and reports.**

(a) ***Applications.*** All permit applications must be signed as follows:

(i) *For a corporation.* By a responsible corporate officer. For the purpose of this section, a responsible corporate officer means either of the following:

(A) A president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy-making or decision-making functions for the corporation.

(B) The manager of one or more manufacturing, production, or operating facilities employing more than two hundred fifty persons or having gross annual sales or expenditures exceeding twenty-five million dollars (in second-quarter 1980 dollars), if authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures.

(ii) *For a partnership or sole proprietorship.* By a general partner or the proprietor, respectively.

(iii) *For a municipality, state, federal, or other public agency.* By either a principal executive officer or ranking elected official. For purposes of this section, a principal executive officer of a federal agency includes either of the following:

(A) The chief executive officer of the agency.

(B) A senior executive officer having responsibility for the overall operations of a principal geographic unit of the agency.

(b) ***Reports and other information.*** All reports and other information required by permits, and other information requested by the department must be signed by a person described in (a) of this subsection, or by a duly authorized representative of that person. A person is a duly authorized representative only if the following conditions are met:

(i) The authorization is submitted to the department in writing by a person described in (a) of this subsection.

(ii) The authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility or activity such as the position of plant manager, superintendent, position of equivalent responsibility, or an individual or position having overall responsibility for environmental matters.

(c) ***Changes to authorization.*** If an authorization under (b) of this subsection is no longer accurate, a new authorization satisfying the requirements of (b) of this subsection must be submitted to the department prior to or together with any reports or other information.

(d) ***Certification.*** Any person signing a document under (a) or (b) of this subsection must make the following certification, unless a different certification is applicable under another related section of this chapter:

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

(11) **Public access to information.** In accordance with chapter 42.17 RCW, the department must provide, upon request, any information submitted as part of a permit application, except as provided in (a) of this subsection.

(a) In accordance with chapters 42.17, 43.21A, 70.105, and 90.52 RCW, the department must protect any information (other than information on the quality of biosolids) contained in applications as confidential upon a showing by any person that the information, if made public, would divulge methods or processes entitled to protection as trade secrets of the person.

(b) Any information accorded confidential status, whether or not contained in any application form, must be disclosed, upon request, to the Regional Administrator of EPA.

(12) **Recordkeeping required for permit applications.** Applicants must keep records of all information used to complete permit applications and any supplemental information submitted for a period of five years, or longer, if otherwise required by this chapter, the conditions of the applicable permit, or other state or local laws.

(13) **Public notice and comment period.** Public notices and comment periods must minimally meet the requirements listed in this subsection.

(a) ***Applying for coverage under a general permit initially, proposing a significant change, or reapplying following revocation.*** All facilities applying for coverage under a general permit initially, facilities who propose a significant change in biosolids management practices, and those who reapply for a permit following revocation of their permit must issue public notice in the following manner:

(i) Issue one notice in a newspaper of general circulation in any county(ies) where you prepare biosolids or sewage sludge.

(ii) Issue one notice in a newspaper of general circulation in any county(ies) covered by a general land application you have submitted.

(iii) Issue one notice in a newspaper of general circulation in any county(ies) where you land apply nonexceptional quality biosolids except where this notice has been conducted by a permitted biosolids beneficial use facility.

(iv) Post notices at any site(s) where you plan to land apply nonexceptional quality biosolids except where this notice has been conducted by a permitted biosolids beneficial use facility. The site(s) must remain posted during the entire public comment period required in (a)(v) of this subsection.

(v) Provide a thirty-day public comment period following the issuance of newspaper notice and the posting of site(s).

(b) ***Applying for renewal of coverage under a general permit with no land application of nonexceptional quality biosolids.*** All facilities applying for renewal of coverage under a general permit who have previously met the public notice requirements of (a) of this subsection and who do not land apply nonexceptional quality biosolids are not required to conduct additional public notice.

(c) ***Applying for renewal of coverage under a general permit with land application of nonexceptional quality biosolids.*** All facilities applying for renewal of coverage under a general permit who have previously met the public notice requirements of (a) of this subsection and who land apply nonexceptional quality biosolids must conduct public notice in accordance with (a)(iii) and (v) of this subsection.

(d) ***Applying for an individual permit.*** Facilities applying for individual permits must conduct public notice in accordance with (a)(i) through (v) of this subsection at the time they apply for a permit and at the time when a draft permit is provided for formal review by the department.

(e) ***Notice when adding a new site in accordance with a general land application plan.*** All facilities who are proposing to add a new site or expand an existing site for the land application of nonexceptional quality biosolids in accordance with an approved general land application plan and who previously met the public notice requirements of (a) of this subsection must conduct public notice at the proposed new site or expanded area of an existing site in accordance with (a)(iv) and (v) of this subsection.

(f) All facilities not captured under one of the descriptions in (a) through (e) of this subsection must conduct public notice as directed by the department.

(g) ***Notice contents.*** All notices issued in accordance with this subsection must contain at least the following:

(i) The name and address of the facility and the name of the contact person for the facility.

(ii) The name and address of the department of ecology person responsible for the permit.

(iii) The name and address of the local health jurisdiction person responsible for the permit if the local health jurisdiction has been delegated this responsibility.

(iv) A description of the proposal.

(A) Proposals for coverage under a general permit must cite the name of the general permit.

(B) Proposals for land application plans must contain information on the location of the proposed land application sites and, if applicable, the source(s) of biosolids that may be applied.

(C) Proposals for general land application plans must provide information on how the public will be notified when specific sites are identified.

(v) A brief statement describing the applicant's biosolids or sewage sludge management practices.

(vi) A statement describing an interested person's opportunity to comment or request a public hearing or meeting on the proposal, including the last date for comments or requests and the contact person to whom comments or requests must be directed.

(A) The period for comments and requests must be at least thirty days following the posting.

(B) Comments and requests should be directed to the responsible department of ecology contact or the responsible local health jurisdiction contact if the authority is delegated.

(C) The following is an example: "*Any person wishing to comment on this proposal or wishing to request a public hearing or meeting must do so in writing within thirty days of this notice. Comments should be addressed to* (insert either '*the department of ecology contact listed*' or '*the local health jurisdiction contact listed*')."

(vii) The statement, "*If you wish to be included on an interested parties list to receive notification of activities relating to this project, please notify, in writing, the* (insert facility name) *contact listed*. (Insert facility name) *will provide written confirmation by certified mail, return receipt requested, to each interested person or organization that their name has been placed on the list*."

(viii) Any additional information considered necessary or proper.

(h) ***Notice to interested parties.*** Notices must be sent to all persons on a facility's interested parties list at the same time or before notice is run in a newspaper or posted at a land application site.

(i) ***Notices at land application sites.*** Notices at land application sites must be posted at all significant site access points and at least every 1/2 mile (805 meters) around the perimeter of the site.

(j) Following the completion of public notice and comment period requirements, the facility must provide written documentation to the department certifying completion of the process in accordance with the following:

(i) When newspaper notice has been conducted, either an *Affidavit of Publication* must be submitted or a copy of the newspaper notice that shows the date of publication must be submitted.

(ii) When site posting has been conducted, a copy of the final notice posted and a brief description describing how site posting and notification was conducted.

(k) Notice must be given by any other method required by the department.

(14) **Public hearings and meetings.**

(a) The department may require an applicant to hold a public hearing or meeting when applying for a permit or for any land application plan if it finds, on the basis of requests, a significant degree of public interest or if it determines that a public discussion might clarify one or more aspects important to compliance with the requirements of this chapter or an applicable permit.

(b) During the public comment period provided for in subsection (13) of this section, any person may request the department to require a public hearing or meeting if none has been scheduled. Any request for a public hearing or meeting must be in writing and must state the nature of the issues proposed to be raised. The department will consider all requests that are received not later than the final comment date specified in the notice required under subsection (13) of this section.

(c) ***Notice of a hearing.*** If the department determines that a public hearing must be held, the applicant must give notice of a public hearing in accordance with the procedures in subsection (13) of this section, except that posting of sites that are not specifically subject to the hearing is not required.

(i) The notice of hearing must contain the following information:

(A) The dates of previous public notices relating to the permit application.

(B) The date, time, and place of the hearing.

(C) A brief description of the nature and purpose of the hearing, including any rules and procedures that apply.

(ii) Copies of the notice and an explanation of all places where and when the notice was published must be submitted to:

(A) The contact person in the regional or headquarters office of the department that has lead responsibility for the permit.

(B) Any applicable local health jurisdiction that has accepted delegation of authority for conducting public hearings.

(d) Public hearings required under this subsection, must be held in each county where biosolids will be treated or applied to the land, unless otherwise allowed by the department.

(e) Public hearings required under this subsection must be held no sooner than thirty days after the publication of the notice required in (c) of this subsection and at a time and place as can be reasonably expected to be convenient to the department and interested parties.

(f) Public hearings must be attended by a representative of the permit applicant who is authorized to respond to questions from the public and the department and by a representative of the department.

(g) ***Notice of a meeting.*** Requirements for notice conducted for public meetings are the same as that required for public hearings unless otherwise allowed by the department.

(15) **Record and response to comments received on an application or during a public hearing or meeting.**

(a) The department will maintain a record of all written comments received during the public comment period in subsection (13) of this section, and of all comments properly submitted in response to a public hearing required under subsection (14) of this section.

(b) The department will prepare a response to all relevant comments received, and will briefly describe any changes that resulted (other than editorial changes) to a permit.

(c) The department is not obligated to consider or respond to comments or information that is received later than thirty days after the date of publication of public notice, or the date of a public hearing, whichever is later.

(16) **Compliance schedules.**

(a) A permit may specify a schedule leading to compliance with the federal Clean Water Act and these regulations. Any compliance schedule under this subsection must require compliance as soon as possible, but not later than any applicable statutory deadline under the Clean Water Act or chapter 70.95J RCW.

(b) ***Interim dates.*** If a permit establishes a compliance schedule that exceeds one year from the date of permit issuance, the schedule must set forth interim requirements and the date for their achievement. The time between interim dates must not exceed six months.

(c) ***Reporting.*** The permit must require that no later than fourteen days after each interim date and the final date of compliance, the permittee must notify the department in writing of its compliance or noncompliance with the interim or final requirements.

(17) **Fact sheet required for individual permits.**

(a) The department must prepare a fact sheet for every draft individual permit for a class I biosolids management facility, for every draft individual permit requiring permit conditions developed on a case-by-case basis to implement section 405 (d)(4) of the Clean Water Act, for every draft individual permit that includes a general land application plan, and for every draft individual permit that the director finds is the subject of widespread public interest or raises major issues.

(i) The fact sheet must briefly set forth the principal facts and the significant factual, legal, methodological, and policy questions considered in preparing the draft permit.

(ii) The director must send this fact sheet to the applicant and, on request, to any other person.

(b) ***Fact sheet contents.*** The fact sheet must include all of the following:

(i) A brief description of the type of facility or activity that is the subject of the draft permit.

(ii) Any calculations or other necessary explanation of the derivation of conditions for biosolids use and sewage sludge disposal, including a citation to the applicable standards for biosolids use or sewage sludge disposal and reasons why they are applicable, or in the case of conditions developed on a case-by-case basis to implement section 405 (d)(4) of the Clean Water Act, an explanation of, and the bases for the conditions.

(iii) For permits that include a general land application plan, a brief description of how each of the required elements of the land application plan is addressed in the permit.

(18) **Approval of coverage - provisional approval and final coverage.**

(a) ***Provisional approval.*** Except for new beneficial use facilities as described in (a)(ii) of this subsection, facilities that are in compliance with this chapter, an applicable permit, and any plans submitted as part of a request to obtain a permit are provisionally approved to engage in the biosolids management activities proposed in their applications.

(i) Facilities with provisional approval are subject to further review and permitting requirements at a later date, and are subject at all times to all applicable conditions of this chapter, an applicable permit, and any plans submitted as part of a request to obtain a permit.

(ii) New beneficial use facilities may not obtain provisional approval.

(b) ***Final coverage.*** After reviewing a permit application and considering other pertinent information including any testimony received during a public hearing or meeting or written comments submitted in response to a public notice, the department may approve coverage under a general permit or issue an individual permit.

If final approval is issued, the department will notify the applicant in writing of its decision including any additional requirements or stipulations that are imposed as a condition of approval in accordance with subsection (19) of this section.

(c) ***Disapproval.*** If an application for a permit is disapproved, the department will notify the applicant in writing, including an explanation of why the application was disapproved.

(d) In no case may a lack of action by the department be construed as relieving an applicant of the obligation to comply with any of the provisions of this chapter or an applicable permit, or as approving final use or disposal practices that are not consistent with the provisions of this chapter or an applicable permit, or that pose a threat to human health or the environment.

(19) **Additional or more stringent requirements.**

(a) On a case-by-case basis, the department may impose requirements for the beneficial use of biosolids that are in addition to or more stringent than the requirements in this chapter if the department believes that the additional or more stringent requirements are necessary to protect public health or the environment from any adverse effect of a pollutant in the biosolids or to ensure compliance with this chapter.

(b) In addition to other considerations, failure of a generator, applier, or landowner to conform to any applicable requirements of this chapter may be cause to impose additional or more stringent requirements.

(c) The department will impose any additional or more stringent requirements in an individual permit issued to a facility, in general permits issued in accordance with Appendix 5 of this chapter, and in the issuance of final coverage under a general permit.

(d) Any additional or more stringent requirements imposed in accordance with this section are considered to be permit requirements, fully enforceable in accordance with the provisions of this chapter and the applicable permit.

(e) If known, any additional requirements must be disclosed at a public hearing if a public hearing is held, or if imposed subsequent to a public hearing, must become a part of the written record required under subsection (15)(b) of this section.

(20) **Prohibition.** The department may not issue a permit when the Regional Administrator of EPA has objected in writing under 40 CFR 123.44.

(21) **Duration of permits.**

(a) Permits are issued for fixed terms up to, but not exceeding, five years from the effective date of the permit. Final coverage under a general permit may be issued for a period up to the remaining term of issuance for the permit.

(b) The term of a permit may not be extended by modification beyond five years.

(22) **Transfer of permit coverage.**

(a) Except as provided in (b) of this subsection, a permit may be transferred by the permittee to a new owner operator only if the permit has been modified or revoked and reissued to identify the new permittee and incorporate other requirements as may be necessary to assure compliance with the requirements of this chapter.

(b) ***Automatic transfer.*** Coverage under a permit is automatically transferred from the old permittee to a new permit-

tee on the date agreed to if all of the following conditions are met:

(i) A written, signed agreement between the old and new permittees containing a specific date for transfer of permit responsibility, coverage, and liability is submitted in accordance with (b)(i)(A) through (D) of this subsection at least thirty days in advance of the proposed date of transfer.

(A) The original to the biosolids coordinator in the regional office of the department where the facility is located.

(B) One copy to any other regional office of the department where the facility's biosolids or sewage sludge will be treated, stored, disposed, or applied to the land.

(C) One copy to the biosolids coordinator at the department's headquarters office.

(D) One copy to the local health jurisdiction in each county where biosolids or sewage sludge will be treated, stored, disposed, or applied to the land.

(ii) The department has not notified both permittees of any objection to the transfer, or of the intent to revoke the permit.

(c) No condition or requirement of a permit or this chapter may be waived by the transfer of permit coverage from one party to another.

(23) **Modification or revocation and reissuance of permits.**

(a) When the department receives any information (for example, upon inspection of a facility, receipt of information submitted by the permittee as required in the permit, receipt of a request for modification or revocation and reissuance, or upon a review of the permit file), the department may determine whether or not one or more of the causes listed in (b) or (c) of this subsection for modification or revocation and reissuance, or both, exist.

(i) If cause for modification or revocation and reissuance, or both, exists, the department may modify or revoke and reissue a permit and may request an updated application if necessary.

(ii) When a permit is modified, only the conditions subject to modification are reopened.

(iii) If a permit is revoked and reissued, the entire permit is reopened and subject to revision, and the permit may be reissued for a new term.

(iv) If cause does not exist under this section, the department may not modify or revoke and reissue a permit.

(b) ***Causes for modification.*** The following are causes for modification but not revocation and reissuance of permits except when the permittee requests or agrees.

(i) *Alterations.* There are material and substantial alterations or additions to the permitted facility or activity that occurred after permit issuance that justify the application of permit conditions that are different from or absent in the existing permit.

(ii) *Information.* The department has received new information. A permit may be modified during its term for this cause only if the information was not available at the time of permit issuance (other than revised regulations, guidance, or test methods) and would have justified the application of different permit conditions at the time of issuance.

(iii) *New regulations.* New regulations have been adopted or the standards or regulations on which the permit was based have been changed by adoption of amended standards or regulations or by judicial decision after the permit was issued.

(iv) *Compliance schedules.* The department determines good cause exists for modification of a compliance schedule, such as an act of God, strike, flood, or materials shortage or other events over which the permittee has little or no control and for which there is no reasonable available remedy. However, in no case may a compliance schedule be modified to extend beyond an applicable Clean Water Act statutory deadline.

(v) *Land application plans.* When required by a permit condition to incorporate a general land application plan for beneficial use of biosolids, to revise a general land application plan, or to add a general land application plan.

(c) ***Causes for modification or revocation and reissuance.*** The following are causes to modify or, alternatively, revoke and reissue a permit.

(i) Cause exists for termination under subsection (24) of this section and the department determines that modification or revocation and reissuance is appropriate.

(ii) The department has received notification of a proposed transfer of the permit.

(d) ***Public notice requirements.*** When a permit is modified or revoked and reissued, the public notice requirements of subsection (13) of this section, and if required the public hearing requirements of subsection (14) of this section must be complied with for the reopened conditions or reissued permit.

(24) **Causes for termination of permits, denying permit applications, or denying expansion of an existing permit.** The following are causes for terminating a permit during its term, or for denying a permit application, or for denying an expansion of an existing permit:

(a) Noncompliance by the permittee with any condition of the permit.

(b) The permittee's failure in the application or during the permit issuance process to disclose fully all relevant facts, or the permittee's misrepresentation of any relevant facts at any time.

(c) A determination that the permitted activity endangers human health or the environment and can only be regulated to acceptable levels by permit modification or termination.

(d) A change in any condition that requires either a temporary or a permanent reduction or elimination of any activity controlled by the permit.

(e) Failure by the permittee to pay a permit fee issued in accordance with WAC 173-308-320.

(25) **Requirement to coordinate permitting with delegated local health jurisdictions.** When a local health jurisdiction has received delegation to administer any portion of, or to carry out any activity required under this chapter, all facilities subject to permitting under this chapter must cooperate with the department and the local health jurisdiction by coordinating permitting activities so as to assure an opportunity for local health jurisdiction involvement consistent with the terms of the delegation agreement.

[Statutory Authority: Chapters 70.95J and 70.95 RCW. 07-12-010 (Order 06-06), § 173-308-310, filed 5/24/07, effective 6/24/07. Statutory Authority: RCW 70.95J.020 and 70.95.255. 98-05-101 (Order 97-30), § 173-308-310, filed 2/18/98, effective 3/21/98.]

WAC 173-308-320 Permit fees. (1) All facilities that are required to obtain a permit must pay an annual biosolids permit fee to the department.

(2) Biosolids permit fees are assessed on an annual basis and apply regardless of the date of issuance of a permit.

(3) Except for those facilities described in subsection (4)(h) of this section, biosolids permit fees are assessed and collected for fiscal years for wastewater treatment facilities and for calendar years for receiving-only facilities and septage management facilities. Fees are due and payable within forty-five days after the department mails a billing statement.

(a) Fees are considered delinquent if they are not received by the first invoice billing due date.

(i) If a fee is determined to be delinquent, the permittee will be notified by certified letter and have thirty days to bring their account up-to-date before further action is taken by the department.

(ii) Failure to pay a fee is a cause for termination of a permit in accordance with WAC 173-308-310(24).

(b) Upon request from the permittee, the department may at its discretion mail partial billing statements up to two times per year, in which case a facility is responsible only for the amount reflected on the current (and any past due) billing statement.

(4) The permit fee schedule is based on the number of residences or residential equivalents (residential equivalent value) contributing to a permittee's biosolids management system. All charges per residential equivalent and any maximum fees listed in this subsection will be adjusted by the annual fiscal growth factor calculated under chapter 43.135 RCW.

(a) All facilities required or requesting to obtain a permit or approval are assigned a minimum of one residential equivalent.

(b) For facilities with NPDES permits issued under chapter 173-220 WAC or state waste discharge permits issued under chapter 173-216 WAC, the department will use residential equivalent values determined under chapter 173-224 WAC. If no residential equivalent value is determined under chapter 173-224 WAC, the number of residences connected to the system or another appropriate criteria will be used to determine the residential equivalent value.

(c) The residential equivalent value for receiving-only facilities other than septage management facilities in (e) of this subsection is the sum of the residential equivalent values contributed from all sources, as determined by considering the portion of the current annual production of each originating source that is provided to the receiving facility.

(d) The residential equivalent value for facilities located outside of the state (e.g., those on tribal lands, other states, and other nations) who export solids into the state will be based on the portion of the current annual production of the facility that is exported into the state.

(e) For septage management facilities, each 1,250 gallons of septage received for treatment or applied to the land is equal to one residential equivalent.

(f) Equations (5) and (6), below, are used to calculate permit fees:

Equation (5)

$$\text{Permit Fee} = (\text{REV} \times \text{Cost per } RE_{FGF})$$

Where:

REV = residential equivalent value.

FGF = an annual fiscal growth factor expressed as a percentage, as determined under chapter 43.135 RCW.

Cost per RE_{FGF} = cost per residential equivalent in dollars including a fiscal growth factor. The cost per RE_{FGF} is obtained by multiplying the cost per residential equivalent in the preceding year by the current year's fiscal growth factor as follows in equation (6).

Equation (6)

$$\text{Cost per } RE_{FGF} = \text{Previous year's cost per RE} \times [1 + (FGF)]$$

(g) For implementation of the fiscal growth factor, the base year for all biosolids permit fees will be fiscal year 2008, ending June 30, 2008. In the base year, the FGF will be zero (0).

(h) ***Review fee for new facilities.*** New facilities proposed after July 1, 2007, will be required to pay a nonrefundable fee of $1,800.00 for the first residential equivalent prior to departmental review of an application package or proposal. In addition, following issuance of a permit or approval, the facility will be subject to the fees described in (i) of this subsection.

(i) A cost of $600.00 will be assigned to the first residential equivalent for all facilities. The cost per subsequent residential equivalent in the base year will be as follows:

(i) $0.00 per residential equivalent for permits issued to municipalities that own or operate incinerators that fire sewage sludge to dispose of sewage sludge generated by their own facility in a municipal solid waste landfill or through another facility on an emergency basis.

(ii) $0.051 per residential equivalent up to a maximum of $3000.00 for permits issued to receiving-only facilities.

(iii) $0.215 per residential equivalent for permits authorizing any other type of solids management activity including, but not limited to, the following:

(A) Direct beneficial use by a treatment works treating domestic sewage.

(B) Transfer from one facility to another facility, including delivery to an incinerator from nonincinerating jurisdictions.

(C) Prolonged treatment or storage including, but not limited to, lagoon systems.

(D) Treatment or land application of septage.

(E) Disposal of sewage sludge in a municipal solid waste landfill except for facilities under (i)(i) of this subsection.

(F) Exporting biosolids or sewage sludge from facilities located outside of the state.

(iv) $0.16 per residential equivalent above 100,000.

(5) Following is a summary table showing the equations used to calculate fees for the base year.

Facility Type	Fee Formula for Base Year
Septage management	$600 + (gallons ÷ 1,250 x $0.215)
Receiving-only (includes beneficial use facilities)	$600 + ($REV_{received}$ x $0.051) Maximum of $3,000
Out-of-state	$600 + ($REV_{exported}$ x $0.215)

Facility Type	Fee Formula for Base Year
Incineration	$600.00
All others (includes most wastewater treatment facilities)	$600 + ($REV_{<100,000}$ x $0.215) + ($REV_{\geq}100,000$ x $0.16)
New facility review fee	$1,800

Where:	
	$REV_{received}$ = residential equivalent values received (based on the portion of the residential equivalent values contributed from each source).
	$REV_{exported}$ = residential equivalent values exported (based on the portion of the annual production of the facility that is exported into the state).
	$REV_{<100,000}$ = residential equivalent values less than 100,000.
	$REV_{>100,000}$ = residential equivalent values greater than or equal to 100,000.

[Statutory Authority: Chapters 70.95J and 70.95 RCW. 07-12-010 (Order 06-06), § 173-308-320, filed 5/24/07, effective 6/24/07. Statutory Authority: RCW 70.95J.020 and 70.95.255. 98-05-101 (Order 97-30), § 173-308-320, filed 2/18/98, effective 3/21/98.]

Reviser's note: The brackets and enclosed material in the text of the above section occurred in the copy filed by the agency.

WAC 173-308-90001 Appendix 1—Minimum content for a permit application. (1) The activities conducted by the applicant that require it to obtain a permit, and if applying under a general permit, the name of the permit.

(2) Name, mailing address, and location of the facility for which the application is submitted.

(3) The operator's name, address, telephone number, ownership status, and status as federal, state, private, public, or other entity.

(4) Whether or not the facility or any associated facilities or land applications sites are located on tribal or federal lands.

(5) A listing of other relevant environmental permits, and all permits or construction approvals received or applied for under any of the following programs:

(a) Hazardous waste management program under the Resource Conservation and Recovery Act.

(b) Underground injection control program under the Safe Drinking Water Act.

(c) National pollutant discharge elimination system program under the Clean Water Act.

(d) Prevention of significant deterioration program under the Clean Air Act.

(e) Nonattainment program under the Clean Air Act.

(f) National emission standards for hazardous pollutants preconstruction approval under the Clean Air Act.

(g) Ocean dumping permits under the Marine Protection, Research, and Sanctuaries Act.

(h) Dredge or fill permits under section 404 of the Clean Water Act.

(6) A map extending one mile (1.6 kilometers) beyond the property boundaries of the facility, showing the location and means of access to the facility, and additional maps if necessary, showing the same for any associated treatment or storage facilities.

(7) Any biosolids monitoring data the applicant has for the last two years, including for land application sites any available soil, or surface or ground water monitoring data, with a description of the sampling locations, and for wells the approximate depth to ground water.

(8) A description of the applicant's biosolids use and disposal practices including, where applicable, the location of any sites where the applicant transfers biosolids for treatment or sewage sludge for disposal, as well as the name of the applicator or other contractor who applies the biosolids to land if different from the applicant.

(9) Land application plans, as required under WAC 173-308-310.

(10) The amount of biosolids produced and the amount of biosolids applied to the land during the previous year, and estimated to be produced or applied to the land on an annual basis during the life of the permit.

(11) Any information required to determine the appropriate standards for permitting under this chapter, and any other information the department may request and reasonably require to assess biosolids use or sewage sludge disposal practices, to determine whether or not to issue a permit, or to ascertain appropriate permit requirements under this chapter.

[Statutory Authority: Chapters 70.95J and 70.95 RCW. 07-12-010 (Order 06-06), § 173-308-90001, filed 5/24/07, effective 6/24/07.]

WAC 173-308-90002 Appendix 2—Minimum content for a notice of intent to be covered under a general permit. (1) The name of the general permit under which coverage is being sought, and a statement declaring the applicant's intent to comply with the requirements of the permit.

(2) The activities conducted by the applicant that require it to obtain coverage.

(3) Name, mailing address, and location of the facility for which the application is submitted.

(4) The operator's name, address, telephone number, ownership status, and status as federal, state, private, public, or other entity.

(5) The location and a description of any site(s) where biosolids or sewage sludge are treated, stored, disposed, or applied, and whether or not any permit, including a local solid waste permit has been issued for a site.

(6) Any information specifically required for a notice of intent under the applicable general permit.

[Statutory Authority: Chapters 70.95J and 70.95 RCW. 07-12-010 (Order 06-06), § 173-308-90002, filed 5/24/07, effective 6/24/07.]

WAC 173-308-90003 Appendix 3—Minimum content for a site specific land application plan. (1) Whether or not it is known or can be determined that biosolids containing pollutants in excess of the values WAC 173-308-160 Table 3 have ever been applied to the site, and if so:

(a) The date(s) when the biosolids were applied (if known).

(b) The amount of biosolids applied (if known).

(c) The concentrations of the pollutants in the biosolids (if known).

(d) The area(s) of the site to which the biosolids were applied (if known).

(2) A discussion of the types of crops grown or expected to be grown, their intended end use (e.g., pasture grass for a feed crop, corn as a food crop), and the current distribution of crops on the site.

(3) An explanation of how agronomic rates will be determined during the life of the site, along with any currently available calculations. Whenever agronomic rates or the method used to determine agronomic rates change, an update of the agronomic rate calculations must be filed with the department.

(4) Method(s) of application.

(5) Seasonal and daily timing of biosolids applications.

(6) Provisions for conducting any sampling of soils, surface waters, or ground water and any available data collected from the site within the last two years.

(7) The name of the county and water resource inventory area where biosolids will be applied.

(8) A description of how biosolids will be stored at the site that also addresses related off-site storage.

(9) Map(s) for the site(s) must be submitted. Maps must be of an appropriate scale to show the detail necessary for evaluation of the proposed application areas and so that a person may reasonably be able to locate the sites and any application units within a site (for example, 1:7,920 (eight inches to the mile) for detailed information with an overview map at 1:63,360 (one inch to the mile)). Minimally, maps must provide the following information:

(a) A legend.

(b) The location and means of access.

(c) Specific areas of the site where biosolids may be applied. If there is more than one site or more than one application unit within a site, a site or unit ID number should be included.

(d) The number of acres in the site or in any distinct application unit within a site.

(e) Location and extent of any wetlands on the site.

(f) A topographic relief of the application site and surrounding area.

(g) Adjacent properties and uses and their zoning classification.

(h) Any seasonal surface water bodies located on the site.

(i) Any perennial surface water bodies located on or within one-quarter mile (402 meters) of the site.

(j) The location of any wells located on or within one-quarter mile (402 meters) of the site that are listed in public records or otherwise known to the applicant, whether for domestic, irrigation, or other purposes.

(k) Buffer zones to features such as surface waters, wells, property boundaries, and roadways and the width of the buffer zones.

(l) The presence and extent of any threatened or endangered species or related critical habitat.

(m) The location of any critical areas on site, as required to be identified under chapter 36.70A RCW in the county's growth management plan.

(n) The location and size of any areas that will be used to store biosolids.

(10) If the seasonal ground water is three feet (0.91 meters) or less below the surface, a management plan describing how you will protect ground water. For example, you may propose to limit applications to the time of year when ground water has receded to less than three feet (0.91 meters) below the surface.

(11) A description of how access to the site will be restricted (e.g., signs posted around the site or other approved method of access restriction).

(12) A copy of the landowner agreement required under WAC 173-308-120(6).

(13) Any additional information requested by the department that is needed to evaluate the appropriateness of the site for biosolids application.

[Statutory Authority: Chapters 70.95J and 70.95 RCW. 07-12-010 (Order 06-06), § 173-308-90003, filed 5/24/07, effective 6/24/07.]

WAC 173-308-90004 Appendix 4—Minimum content for a general land application plan. (1) Describes the geographical area covered by the plan, including the names of all counties and water resource inventory areas where biosolids may be applied.

(2) Identifies site selection criteria.

(3) Describes how sites will be managed.

(4) Provides for not less than thirty days advance notice to the department of new or expanded land application sites, including those subject to provisional approval under WAC 173-308-310(18), to allow time for the department to object prior to the biosolids application.

(5) Provides for advance public notice as required in WAC 173-308-310(13), and that is reasonably calculated to reach potentially interested adjacent and abutting property owners.

[Statutory Authority: Chapters 70.95J and 70.95 RCW. 07-12-010 (Order 06-06), § 173-308-90004, filed 5/24/07, effective 6/24/07.]

WAC 173-308-90005 Appendix 5—Procedures for issuing general permits. When the department issues general permits, it will do so in accordance with the procedures in this section.

(1) **General permit coverage.**

(a) The director may issue general permits to satisfy any or all of the biosolids management requirements in chapter 70.95J RCW or other applicable state or federal biosolids management requirements.

(b) The director may issue general permits to cover categories or subcategories of facilities within appropriate geographic areas.

(c) General permits may be written to cover categories of treatment works treating domestic sewage that meet all of the following requirements:

(i) Involve the same or substantially similar types of operations.

(ii) Engage in the same types of biosolids use or sewage sludge disposal practices.

(iii) Require the same or substantially similar operating conditions or standards for biosolids use or sewage sludge disposal.

(iv) Require the same or substantially similar monitoring.

(v) In the opinion of the director are more appropriately controlled under a general permit than under individual permits.

(2) **General permit preparation - preliminary determination.**

(a) For all general permits, the department must make a preliminary determination to develop a general permit.

(i) Interested persons may petition the director requesting that a category of facilities be considered for the development of a general permit.

(ii) The department must respond to such a petition within ninety days of receipt.

(b) The department must provide public notice of all preliminary determinations to develop a general permit pursuant to subsection (5)(a) of this section.

(c) In the event that the department determines not to develop a general permit after publishing a preliminary determination pursuant to subsection (5)(a) of this section, the department must provide public notice to that effect in the same manner as the preliminary determination public notice was provided.

(3) **Fact sheets.**

(a) The department must prepare a fact sheet for every draft general permit determination. Such fact sheets must summarize the following:

(i) The legal basis of the permitting program.

(ii) The type of facility or activity which is 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) If available, a listing or some other means of identifying the facilities proposed to be covered under the general permit.

(vi) The information required to be submitted as part of the application for coverage under the general permit.

(vii) The general characteristics of the facilities being authorized under the general permit.

(viii) Standards and limitations imposed in the general permit.

(ix) A general description of the conditions in the general permit.

(x) Any compliance schedules proposed as part of the general permit.

(xi) The procedures for the formulation of final determinations, including:

(A) The thirty-day comment period required in subsection (5)(c)(iv) of this section, 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.

(B) The time and place of the public hearing(s) required in subsection (7) of this section.

(C) Any other procedures by which the public may participate in the formulation of the final determination.

(xii) A summary of the economic impact analysis required in subsection (4) of this section, including any mitigation proposed for small business.

(b) The department must provide copies of general permit fact sheets to any interested person upon request.

(4) **Economic impact analysis.**

(a) The department must prepare an economic impact analysis on all draft general permits which are intended to directly cover small business. The economic impact analysis must be prepared on the draft general permit for which public notice is being provided pursuant to subsection (5)(c) of this section.

(b) 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 chapter 70.95J RCW:

(i) Establishing differing compliance or reporting requirements or timetables for small businesses.

(ii) Clarifying, consolidating, or simplifying the compliance and reporting requirements under the general permit for small businesses.

(iii) Establishing performance rather than design standards.

(iv) Exempting small businesses from parts of the general permit.

(c) The contents of an economic impact analysis of a proposed general permit must include, at a minimum, the following:

(i) A brief description of the compliance requirements of the general permit, including:

(A) The minimum quality requirements.

(B) The monitoring requirements contained in the general permit.

(C) The reporting and recordkeeping requirements.

(D) Any plan submittal requirements.

(ii) The estimated costs of compliance, based upon existing data for facilities intended to be covered under the general permit. Costs must include:

(A) The costs associated with (c)(i) of this subsection.

(B) The costs of equipment, supplies, labor, and any increased administrative costs.

(iii) 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 must use one or more of the following as a basis for comparing costs:

(A) Cost per employee.

(B) Cost per hour of labor.

(C) Cost per one hundred dollars of sales.

(d) The following compliance costs associated with a general permit must not be included in the economic impact analysis:

(i) The costs necessary to comply with chapter 173-308 WAC.

(ii) The costs associated with requirements of the general permit which result from conformity or compliance, or both, with federal law or regulations.

(5) **Public notice.** The department must 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 must be circulated in a manner designed to inform interested and potentially affected persons of the proposed general permit.

(a) ***Public notice for preliminary determinations.*** The department must provide public notice of all preliminary determinations to develop a general permit as follows:

(i) The public notice must be circulated within the geographical area of the proposed general permit. Such notice may include any or all of the following:

(A) 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.

(B) Issuance of news releases, focus sheets, or newsletters.

(C) Publication in the State Register.

(ii) The department must request comments on whether a general permit is appropriate for the proposed category of facilities or whether individual permits are necessary.

(iii) The public notice must provide an opportunity for any interested or potentially affected party to submit information on facilities proposed to be covered under a general permit including:

(A) Any documented information on the characteristics of the biosolids including quantity, quality, and any land application sites. Information may be from an individual facility or be representative of the category as a whole.

(B) Any other relevant information.

(iv) The department must 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.

(b) In the event that the department determines not to develop a general permit after publishing a preliminary determination pursuant to (a) of this subsection, the department must provide public notice to that effect.

(c) ***Public notice for draft general permits.*** The department must provide public notice of every draft general permit as follows:

(i) The notice must be circulated throughout the geographical area covered by the general permit. Such circulation may include any or all of the following:

(A) Posting for a period of thirty days in post offices, public libraries, and public places within the geographical area covered by the general permit.

(B) 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.

(C) Issuance of news releases, focus sheets, or newsletters.

(ii) Notice must be mailed to any person upon request, including all persons on the general permit specific mailing list established pursuant to (a)(iv) of this subsection and all known, potential permittees.

(iii) At least thirty days before the public hearing(s) required in subsection (7) of this section, the department must have the following published in the State Register:

(A) The public notice contents contained in (c)(vi) of this subsection.

(B) A reference to the relevant sections of chapter 70.95J RCW as the statutory authority for issuing the general permit.

(C) The date on which the agency intends to issue the general permit.

(D) A short explanation of the permit, its purpose, and anticipated effects.

(E) A summary of the economic impact analysis required in subsection (4) of this section.

(iv) *Public comment period*. The department must 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 must 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.

(v) The department must make available during the public comment period:

(A) The draft general permit.

(B) The fact sheet on the draft general permit required pursuant to subsection (3) of this section.

(C) The economic impact analysis required pursuant to subsection (4) of this section.

(D) A copy of the proposed application for coverage.

(E) The notice required pursuant to (c)(iii) of this subsection.

(vi) The contents of the draft general permit public notice must, at a minimum, summarize the following:

(A) The name, address, and phone number of the agency issuing the public notice.

(B) The type of facilities and activities which are the subject of the general permit.

(C) The geographical area for which the general permit is valid.

(D) The criteria for which coverage under a general permit will be approved.

(E) If available, a listing or some other means of generally identifying the facilities proposed to be covered under the general permit.

(F) The tentative determination to issue a general permit.

(G) The procedures for the formulation of final determinations, including the thirty-day comment period required in (c)(iv) of this subsection and any other means by which interested persons may comment upon those determinations.

(H) The date, time, and place when the public hearing(s) required in subsection (7) of this section will be held.

(I) The address and phone number of state premises at which interested persons may obtain further information.

(J) The date and time after which comments will not be considered by the department in formulating the final determination on the draft general permit.

(d) ***Public notice for final general permits.*** The department must provide public notice of the issuance of a final general permit as follows:

(i) The notice of general permit issuance must be circulated in a manner similar to that used to circulate the notice on the draft general permit in (c)(i) of this subsection and must be published in the State Register.

(ii) The notice of general permit issuance must be provided to all persons on the general permit specific mailing list established pursuant to (a)(iv) of this subsection and all known, potential permittees.

(iii) The public notice of the issuance of a general permit must contain:

(A) The name, address, and phone number of the agency issuing the public notice.

(B) The type of facilities and activities which are the subject of the general permit.

(C) The geographical area for which the general permit is valid.

(D) The criteria for which coverage under a general permit will be approved.

(E) If available, a listing or some other means of generally identifying the facilities proposed to be covered under the general permit.

(F) A summary of the application process by which eligible facilities may obtain coverage under the general permit.

(G) An explanation of any changes to the final general permit, other than editing changes, and the principal reasons for adopting the changes.

(H) 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.

(I) The date after which the general permit will be effective. The effective date of a general permit must be no sooner than thirty days after the publication in the State Register of the public notice required pursuant to (d)(i) of this subsection.

(6) **Notice to other government agencies.** The department must notify other appropriate government agencies of each draft general permit determination and must provide such agencies an opportunity to submit their written views and recommendations.

(7) **Public hearings.**

(a) The department must hold one or more public hearing(s) on all draft general permits. The public hearing must be held during the public comment period provided pursuant to subsection (5)(c)(iv) of this section.

(b) The date, time, and place will be at the discretion of the department provided:

(i) At least thirty days is provided between the time the public notice is published pursuant to subsection (5)(c)(i) and (iii) of this section, and the time the hearing is held.

(ii) The hearing location is within the geographical area covered by the general permit.

(c) The department must cause a record to be made of all hearings required pursuant to this section. The record may be stenographic, mechanical, or electronic.

(8) **Public access to information.**

(a) In accordance with chapter 42.17 RCW and its published policy describing disclosure of public records, the department must make identifiable public records relating to all general permits available to the public for inspection and copying.

(b) The department must designate a general permit coordinator for each general permit. The coordinator must:

(i) Have knowledge of the general permit being prepared.

(ii) Maintain the records associated with the development of the general permit including the general permit file required pursuant to (c) of this subsection.

(iii) Be identified as the department contact in public notices regarding the general permit.

(c) ***General permit development file.*** The department must prepare a general permit development file for each issued general permit. The general permit development file must be available for public inspection subject to the provisions of this section. The general permit development file must contain:

(i) Copies of all public notices required pursuant to subsection (5) of this section.

(ii) A copy of the fact sheet required pursuant to subsection (3) of this section and any other documents not readily available to the public which were used in developing the terms and conditions of the general permit.

(iii) A copy of the economic impact analysis required pursuant to subsection (4) of this section.

(iv) Copies of the draft and final general permits and the application for coverage.

(v) All written comments received during the public comment period required pursuant to subsection (5)(c)(iv) of this section, on the draft general permit, fact sheet, economic impact analysis, and application for coverage.

(vi) The record of public hearings produced pursuant to subsection (7)(c) of this section.

(vii) The response to comments prepared pursuant to subsection (9)(a) of this section.

(d) The department must add the name of any person, upon request, to a mailing list to receive notices of department actions associated with a general permit.

(e) The department must provide facilities for the inspection of information relating to general permits and must ensure that employees honor requests for such inspection promptly without undue requirements or restrictions. The department must do either:

(i) Ensure that a machine or device for the copying of papers and documents is available for a reasonable fee.

(ii) Otherwise provide for, or coordinate with copying facilities or services such that requests for copies of nonconfidential, identifiable public records be honored promptly.

(9) **Issuance of general permits.**

(a) At the close of the public comment period required pursuant to subsection (5)(c)(iv) of this section, the department must prepare a response to all relevant comments received (both written and oral) and must briefly describe any changes, other than editing changes, and the principal reasons for making the changes to the draft general permit.

(b) General permits must 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.

(c) The department must provide public notice of the issuance of all final general permits pursuant to subsection (5)(d) of this section.

(d) General permits become effective thirty days after the date of publication in the State Register of the public notice required pursuant to subsection (5)(d) of this section unless a later date is specified by the department.

(10) **Appeals.**

(a) The terms and conditions of a general permit as they apply to the appropriate class of facilities are subject to appeal within thirty days of issuance of a general permit in accordance with chapter 43.21B RCW.

(b) The terms and conditions of a general permit, as they apply to an individual facility, are appealable, within thirty

days of the effective date of coverage of that facility, in accordance with chapter 43.21B RCW. This appeal is limited to the general permit's applicability or nonapplicability to that individual facility.

(c) The appeal of general permit coverage of an individual facility does not affect any other facilities covered under the general permit. If the terms and conditions of a general permit are found to be inapplicable to any individual facility, the matter must be remanded to the department for consideration of issuance of an individual permit or permits.

(11) **Modification, revocation and reissuance, and termination of general permits.** 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 facilities covered under the general permit.

(b) New biosolids or sewage sludge guidelines or standards are promulgated pursuant to the Clean Water Act or chapter 70.95J RCW, for the category of facilities covered under the general permit.

(c) Information is obtained which indicates that cumulative effects on the environment from facilities covered under the general permit are unacceptable.

(12) **Notice for determinations to modify or revoke.** In the event that the director has determined to modify or revoke, in whole or in part, a general permit pursuant to subsection (11) of this section the director must notify, in writing, all facilities covered under the general permit. The notification must 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.

(d) Any other information determined to be relevant by the department.

[Statutory Authority: Chapters 70.95J and 70.95 RCW. 07-12-010 (Order 06-06), § 173-308-90005, filed 5/24/07, effective 6/24/07.]

Chapter 173-322 WAC
REMEDIAL ACTION GRANTS AND LOANS

WAC

WAC 173-322-020 Definitions. Unless otherwise defined in this chapter, words and phrases used in this chapter shall be defined according to WAC 173-340-200.

"Abandoned or derelict vessels" means vessels that have little or no value and either have no identified owner or have an identified owner lacking financial resources to clean up and dispose of the vessel.

"Area-wide ground water contamination" means multiple adjacent properties with different ownership affected by hazardous substances from multiple sources that have resulted in commingled plumes of contaminated ground water that are not practicable to address separately.

"Cleanup action" means any remedial action, except interim actions, taken at a site to eliminate, render less toxic, stabilize, contain, immobilize, isolate, treat, destroy, or remove a hazardous substance that complies with WAC 173-340-350 through 173-340-390.

"Coordinated water system plan" means a plan for public water systems within a critical water supply service area which identifies the present and future water system concerns and sets forth a means for meeting those concerns in the most efficient manner possible pursuant to chapter 246-293 WAC.

"Decree" or "consent decree" means a consent decree issued under WAC 173-340-520 or the federal cleanup law.

"Department" means the department of ecology.

"Director" means the director of the department of ecology.

"Economically disadvantaged county" means a county that meets the following criteria:

• The per capita income of the county, as measured by the latest official estimate of the Washington state office of financial management, is in the lower twenty counties in the state; and

• The county is economically distressed, as defined by chapter 43.168 RCW.

The department will include a list of counties which are economically disadvantaged in the following publication: Washington state department of ecology, "*Remedial Action Program Guidelines*," Publication No. 99-505.

"Federal cleanup law" means the Comprehensive Environmental Response, Compensation, and Liability Act of 1980, as amended by the Superfund Amendments and Reauthorization Act of 1986, 42 U.S.C. 9601 et seq.

"Grant agreement" means a binding agreement between the local government and the department that authorizes the disbursement of funds to the local government to reimburse it for a portion of expenditures in support of a specified scope of services.

"Hazard ranking" means the ranking for hazardous waste sites used by the department pursuant to RCW 70.105D.030 (2)(b) and WAC 173-340-330.

"Hazardous substances" means any hazardous substance as defined in WAC 173-340-200.

"Hazardous waste site" means any facility where there has been confirmation of a release or threatened release of a hazardous substance that requires remedial action.

"Independent remedial actions" means remedial actions conducted without department oversight or approval and not under an order or consent decree.

"Initial containment of methamphetamine lab sites" means the first location where hazardous substances are confined by a container, vessel, barrier, or structure, whether natural or constructed, with a defined boundary, and that prevents or minimizes its release into the environment.

"Innovative technology" means new technologies that have been demonstrated to be technically feasible under certain site conditions, but have not been widely used under different site conditions. Innovative technology also means the innovative use of existing technologies that have been established for use under certain site conditions, but not the conditions that exist at the hazardous waste site for which a remedial action grant is sought. Innovative technology has limited performance and cost data available.

"Interim action" means a remedial action conducted under WAC 173-340-430.

"Loan agreement" means a binding agreement between the local government and the department that authorizes the disbursement of funds to the local government that must be repaid. The loan agreement includes terms such as interest rates and repayment schedule, scope of work, performance schedule, and project budget.

"Local government" means any political subdivision, regional governmental unit, district, municipal or public corporation, including cities, towns, and counties. The term encompasses but does not refer specifically to the departments within a city, town, or county.

"Methamphetamine lab site assessment" means the actions taken by a local health department or district under WAC 246-205-520 through 246-205-560, including posting the property, inspecting the property, determining whether the property is contaminated, posting contaminated property, and notifying occupants, property owners, and other persons with an interest in the contaminated property.

"Model Toxics Control Act" or "act" means chapter 70.105D RCW, first passed by the voters in the November 1988 general election as Initiative 97 and as since amended by the legislature.

"National Priorities List" or "NPL" means a list of hazardous waste sites at which the U.S. Environmental Protection Agency intends to proceed with enforcement or cleanup action.

"No further action (NFA) determination" means a written opinion issued by the department under WAC 173-340-515 (5)(b) that the independent remedial actions performed at a hazardous waste site meet the substantive requirements of chapter 173-340 WAC and that no further remedial action is required at the hazardous waste site. The opinion is advisory only and not binding on the department.

"Order" means an order issued under chapter 70.105D RCW, including enforcement orders issued under WAC 173-340-540 and agreed orders issued under WAC 173-340-530, or an order issued under the federal cleanup law, including unilateral administrative orders (UAO) and administrative orders on consent (AOC).

"Oversight costs" are remedial action costs of the department or the U.S. Environmental Protection Agency reasonably attributable to the administration of an order or decree for remedial action at a hazardous waste site.

"Oversight remedial actions" means remedial actions conducted under an order or decree.

"Partial funding" means funding less than the maximum percentage of eligible costs allowed under this chapter.

"Pilot study" means an experiment in remedial action method, with the purpose of testing the suitability of a particular cleanup technology or process for remedial action at a particular site.

"Potentially liable person" or "PLP" means any person whom the department finds, based on credible evidence, to be liable under RCW 70.105D.040.

"Potentially responsible party" or "PRP" means "covered persons" as defined under section 9607 (a)(1) through (4) of the federal cleanup law (42 U.S.C. Sec. 9607(a)).

"Public water system" means any system, excluding a system serving only one single-family residence and a system with four or fewer connections all of which serve residences on the same farm, providing piped water for human consumption, including any collection, treatment, storage, or distribution facilities under control of the purveyor and used primarily in connection with the system and collection or pretreatment storage facilities not under control of the purveyor but primarily used in connection with such system.

"Purveyor" means an agency or subdivision of the state or a municipal corporation, firm, company, mutual or cooperative association, institution, partnership, or person or any other entity that owns or operates a public water system, or the authorized agent of such entities.

"Recycling" means a remedial action which permanently removes hazardous substances from the site and successfully directs the material into a new product suitable for further industrial or consumer use.

"Remedial action" means any action or expenditure consistent with the purposes of chapter 70.105D RCW to identify, eliminate, or minimize any threat posed by hazardous substances to human health or the environment including any investigative and monitoring activities with respect to any release or threatened release of a hazardous substance and any health assessments or health effects studies conducted in order to determine the risk or potential risk to human health.

"Remedial design (RD)" means an engineering study during which technical plans and specifications are developed to guide subsequent cleanup action at a hazardous waste site.

"Remedial investigation/feasibility study" or "RI/FS" means a remedial action that consists of activities conducted under WAC 173-340-350 intended to collect, develop, and evaluate sufficient information regarding a site to enable the selection of a cleanup action under WAC 173-340-360 through 173-340-390.

"Retroactive costs" means costs incurred before the date of the grant agreement.

"Safe drinking water" means water meeting drinking water quality standards set by chapter 246-290 WAC.

"Safe drinking water action" means an action by a local government purveyor or other purveyor to provide safe drinking water through public water systems to areas contaminated by or threatened by contamination from hazardous waste sites.

"Site" means any building, structure, installation, equipment, pipe or pipeline (including any pipe into a sewer or publicly owned treatment works), well, pit, pond, lagoon, impoundment, ditch, landfill, storage container, motor vehicle, rolling stock, vessel, or aircraft; or any site or area where a hazardous substance, other than a legal consumer product in consumer use, has been deposited, stored, disposed of, or placed, or otherwise come to be located.

"Site hazard assessment" means a remedial action that consists of an investigation performed under WAC 173-340-320.

"Treatment" means a remedial action which permanently destroys, detoxifies, or recycles hazardous substances.

[Statutory Authority: RCW 70.105D.070. 07-08-010 (Order 06-13), § 173-322-020, filed 3/22/07, effective 4/22/07; 05-07-104 (Order 04-06), § 173-322-020, filed 3/18/05, effective 4/18/05. Statutory Authority: Chapter 70.105D RCW. 01-05-024 (Order 97-09A), § 173-322-020, filed 2/12/01, effective 3/15/01. Statutory Authority: RCW 43.21A.080. 93-24-047, § 173-322-020, filed 11/23/93, effective 12/24/93. Statutory Authority: Chap-

ter 70.105D RCW. 90-10-057 (Order 89-45), § 173-322-020, filed 5/1/90, effective 6/1/90.]

WAC 173-322-130 Loans. (1) **Purpose.** This section establishes requirements for a program of remedial action loans to local governments under RCW 70.105D.070 (3)(a) and (7). The loan program shall be limited to providing loans to supplement local government funding and funding from other sources to meet the match requirements for oversight remedial action grants. The intent of the loan program is to encourage and expedite the cleanup of hazardous waste sites and to lessen the impact of the cleanup cost on ratepayers and taxpayers.

(2) **Types of loans.** The loan program includes two different types of loans, a standard loan and an extraordinary financial hardship loan. The two types of loans have different applicant eligibility requirements and different terms and conditions for repayment based upon the applicant's ability to repay the loan.

(a) **Standard loan.** A standard loan is a loan that includes the terms and conditions for repayment.

(b) **Extraordinary financial hardship loan.** An extraordinary financial hardship loan is a loan that includes deferred terms and conditions for repayment. Deferred terms and conditions may not be indefinite. Any such loan must be approved by the director.

(3) **Applicant eligibility.** To be eligible for a loan, the applicant must meet the following requirements:

(a) The applicant must be a local government, as defined in WAC 173-322-020;

(b) The applicant must meet the eligibility requirements for an oversight remedial action grant set forth in WAC 173-322-070(2);

(c) The applicant must agree to undergo an independent third-party financial review to determine its financial need for the loan, ability to repay the loan, and inability to obtain funds from other sources. The financial review shall be conducted at the direction and cost of the department. Based on that financial review, the applicant must demonstrate the following:

(i) For a standard loan, its financial need for the loan, ability to repay the loan, and inability to obtain funds from any other source;

(ii) For an extraordinary financial hardship loan, its financial need for the loan, inability to repay the loan under present circumstances, inability to obtain funds from any other source, and inability to bond or raise its tax base;

(d) The hazardous waste site must present an immediate danger to human health and the environment; and

(e) The inability to obtain a loan would significantly delay the cleanup and subsequent use, sale or redevelopment of the properties affected by the hazardous waste site.

(4) **Application process.**

(a) **Submittal.** The loan application must be submitted to the department at the same time as the associated oversight remedial action grant application.

(b) **Content.** The loan application must be completed on forms provided by the department and include the following:

(i) Sufficient evidence to demonstrate the following:

(A) For a standard loan, the applicant's financial need for the loan, ability to repay the loan, and inability to obtain matching funds from any other source;

(B) For an extraordinary financial hardship loan, the applicant's financial need for the loan, inability to repay the loan under present circumstances, inability to obtain funds from any other source, and inability to bond or raise its tax base;

(ii) Sufficient evidence that the hazardous waste site presents an immediate danger to human health and the environment;

(iii) Sufficient evidence that the inability to obtain a loan would significantly delay the cleanup and subsequent use, sale or redevelopment of the properties affected by the hazardous waste site; and

(iv) A copy of the applicant's most recent Comprehensive Annual Financial Report.

(5) **Application evaluation and prioritization.**

(a) The department will evaluate the loan application together with the associated oversight remedial action grant application. The grant and loan applications will be evaluated by the department for completeness and adequacy. After the grant and loan applications have been completed, the department and the applicant will negotiate a scope of work and budget for the grant and loan. The department will consider cost eligibility and other sources of funding when negotiating the scope of work and budget for the grant and loan.

(b) If the department determines that the applicant meets eligibility requirements for an extraordinary financial hardship loan in subsection (3) of this section, then the department may, upon the approval by the director, provide such a loan to the applicant instead of a standard loan.

(c) The department will fund the loan from the same fund allocation used to fund the associated oversight remedial action grant. When the demand for funds allocated for oversight remedial action grants and loans exceeds the amount of funds available, the department will prioritize the associated grant and loan applications together using the criteria set forth in WAC 173-322-070(5).

(6) **Cost eligibility.** The eligible costs for the loan program shall be the same as the eligible costs for the oversight remedial action grant program set forth in WAC 173-322-070(6).

(7) **Retroactive cost eligibility.** The eligibility of retroactive costs for the loan program shall be the same as the eligibility of retroactive costs for the oversight remedial action grant program set forth in WAC 173-322-070(7).

(8) **Funding and repayment.**

(a) **General.** If the department provides the applicant an oversight remedial action grant and the grant is funded to the maximum extent allowed under WAC 173-322-070(8), then the department may also provide the applicant a loan to enable the applicant to meet the match requirement for the grant. The loan shall be used to supplement local government funding and funding from other sources to meet the match requirement.

(b) **Department funding of match requirement.** The department may provide a loan to the applicant for up to one hundred percent of the match requirement for the oversight remedial action grant.

(c) **Local government funding of match requirement.** The applicant shall fund those eligible costs not funded by the department under the grant or loan. The applicant may not use in-kind services or proceeds from contribution claims to meet the match requirement.

(d) **Repayment of loan.** The terms and conditions for repayment of the loan shall be based on the applicant's ability to repay the loan, as determined by an independent third-party financial review. The independent third-party financial review shall be conducted at the direction and cost of the department. For extraordinary financial hardship loans, the repayment terms and conditions can be deferred. Deferred terms are dependent on periodic review of the applicant's ability to pay. Deferred terms and conditions may not be indefinite.

[Statutory Authority: RCW 70.105D.070. 07-08-010 (Order 06-13), § 173-322-130, filed 3/22/07, effective 4/22/07; 05-07-104 (Order 04-06), § 173-322-130, filed 3/18/05, effective 4/18/05.]

Chapter 173-340 WAC
MODEL TOXICS CONTROL ACT—CLEANUP

WAC

WAC 173-340-708 Human health risk assessment procedures. (1) **Purpose.** This section defines the risk assessment framework that shall be used to establish cleanup levels, and remediation levels using a quantitative risk assessment, under this chapter. As used in this section, cleanup levels and remediation levels means the human health risk assessment component of these levels. This chapter defines certain default values and methods to be used in calculating cleanup levels and remediation levels. This section allows varying from these default values and methods under certain circumstances. When deciding whether to approve alternate values and methods the department shall ensure that the use of alternative values and methods will not significantly delay site cleanups.

(2) **Selection of indicator hazardous substances.**

When defining cleanup requirements at a site that is contaminated with a large number of hazardous substances, the department may eliminate from consideration those hazardous substances that contribute a small percentage of the overall threat to human health and the environment. The remaining hazardous substances shall serve as indicator hazardous substances for purposes of defining site cleanup requirements. See WAC 173-340-703 for additional information on establishing indicator hazardous substances.

(3) **Reasonable maximum exposure.**

(a) Cleanup levels and remediation levels shall be based on estimates of current and future resource uses and reasonable maximum exposures expected to occur under both current and potential future site use conditions, as specified further in this chapter.

(b) The reasonable maximum exposure is defined as the highest exposure that is reasonably expected to occur at a site under current and potential future site use. WAC 173-340-720 through 173-340-760 define the reasonable maximum exposures for ground water, surface water, soil, and air. These reasonable maximum exposures will apply to most sites where individuals or groups of individuals are or could be exposed to hazardous substances. For example, the reasonable maximum exposure for most ground water is defined as exposure to hazardous substances in drinking water and other domestic uses.

(c) Persons performing cleanup actions under this chapter may use the evaluation criteria in WAC 173-340-720 through 173-340-760, where allowed in those sections, to demonstrate that the reasonable maximum exposure scenarios specified in those sections are not appropriate for cleanup levels for a particular site. For example, the criteria in WAC 173-340-720(2) could be used to demonstrate that the reasonable maximum exposure for ground water beneath a site does not need to be based on drinking water use. The use of an alternate exposure scenario shall be documented by the person performing the cleanup action. Documentation for the use of alternate exposure scenarios under this provision shall be based on the results of investigations performed in accordance with WAC 173-340-350.

(d) Persons performing cleanup actions under this chapter may also use alternate reasonable maximum exposure scenarios to help assess the protectiveness to human health of a cleanup action alternative that incorporates remediation levels and uses engineered controls and/or institutional controls to limit exposure to the contamination remaining on the site.

(i) An alternate reasonable maximum exposure scenario shall reflect the highest exposure that is reasonably expected to occur under current and potential future site conditions considering, among other appropriate factors, the potential for institutional controls to fail and the extent of the time period of failure under these scenarios and the land uses at the site.

(ii) Land uses other than residential and industrial, such as agricultural, recreational, and commercial, shall not be used as the basis for a reasonable maximum exposure scenario for the purpose of establishing a cleanup level. However, these land uses may be used as a basis for an alternate reasonable maximum exposure scenario for the purpose of assessing the protectiveness of a remedy. For example, if a cap (with appropriate institutional controls) is the proposed cleanup action at a commercial site, the reasonable maximum exposure scenario for assessing the protectiveness of the cap with regard to direct soil contact could be changed from a child living on the site to a construction or maintenance worker and child trespasser scenario.

(iii) The department expects that in evaluating the protectiveness of a remedy with regard to the soil direct contact pathway, many types of commercial sites may, where appropriate, qualify for alternative exposure scenarios under this provision since contaminated soil at these sites is typically characterized by a cover of buildings, pavement, and landscaped areas. Examples of these types of sites include:

(A) Commercial properties in a location removed from single family homes, duplexes or subdivided individual lots;

(B) Private and public recreational facilities where access to these facilities is physically controlled (e.g., a private golf course to which access is restricted by fencing);

(C) Urban residential sites (e.g., upper-story residential units over ground floor commercial businesses);

(D) Offices, restaurants, and other facilities primarily devoted to support administrative functions of a commercial/industrial nature (e.g., an employee credit union or cafeteria in a large office or industrial complex).

(e) A conceptual site model may be used to identify when individuals or groups of individuals may be exposed to hazardous substances through more than one exposure pathway. For example, a person may be exposed to hazardous substances from a site by drinking contaminated ground water, eating contaminated fish, and breathing contaminated air. At sites where the same individuals or groups of individuals are or could be consistently exposed through more than one pathway, the reasonable maximum exposure shall represent the total exposure through all of those pathways. At such sites, the cleanup levels and remediation levels derived for individual pathways under WAC 173-340-720 through 173-340-760 and WAC 173-340-350 through 173-340-390 shall be adjusted downward to take into account multiple exposure pathways.

(4) **Cleanup levels for individual hazardous substances.** Cleanup levels for individual hazardous substances will generally be based on a combination of requirements in applicable state and federal laws and risk assessment.

(5) **Multiple hazardous substances.**

(a) Cleanup levels for individual hazardous substances established under Methods B and C and remediation levels shall be adjusted downward to take into account exposure to multiple hazardous substances. This adjustment needs to be made only if, without this adjustment, the hazard index would exceed one (1) or the total excess cancer risk would exceed one in one hundred thousand (1×10^{-5}).

(b) Adverse effects resulting from exposure to two or more hazardous substances with similar types of toxic response are assumed to be additive unless scientific evidence is available to demonstrate otherwise. Cancer risks resulting from exposure to two or more carcinogens are assumed to be additive unless scientific evidence is available to demonstrate otherwise.

(c) For noncarcinogens, for purposes of establishing cleanup levels under Methods B and C, and for remediation levels, the health threats resulting from exposure to two or more hazardous substances with similar types of toxic response may be apportioned between those hazardous substances in any combination as long as the hazard index does not exceed one (1).

(d) For carcinogens, for purposes of establishing cleanup levels under Methods B and C, and for remediation levels, the cancer risks resulting from exposure to multiple hazardous substances may be apportioned between hazardous substances in any combination as long as the total excess cancer risk does not exceed one in one hundred thousand (1×10^{-5}).

(e) The department may require biological testing to assess the potential interactive effects associated with chemical mixtures.

(f) When making adjustments to cleanup levels and remediation levels for multiple hazardous substances, the concentration for individual hazardous substances shall not be adjusted downward to less than the practical quantitation limit or natural background.

(6) **Multiple pathways of exposure.**

(a) Estimated doses of individual hazardous substances resulting from more than one pathway of exposure are assumed to be additive unless scientific evidence is available to demonstrate otherwise.

(b) Cleanup levels and remediation levels based on one pathway of exposure shall be adjusted downward to take into account exposures from more than one exposure pathway. The number of exposure pathways considered at a given site shall be based on the reasonable maximum exposure scenario as defined in WAC 173-340-708(3). This adjustment needs to be made only if exposure through multiple pathways is likely to occur at a site and, without the adjustment, the hazard index would exceed one (1) or the total excess cancer risk would exceed one in one hundred thousand (1×10^{-5}).

(c) For noncarcinogens, for purposes of establishing cleanup levels under Methods B and C, and remediation levels, the health threats associated with exposure via multiple pathways may be apportioned between exposure pathways in any combination as long as the hazard index does not exceed one (1).

(d) For carcinogens, for purposes of establishing cleanup levels under Methods B and C, and for remediation levels, the cancer risks associated with exposure via multiple pathways may be apportioned between exposure pathways in any combination as long as the total excess cancer risk does not exceed one in one hundred thousand (1×10^{-5}).

(e) When making adjustments to cleanup levels and remediation levels for multiple pathways of exposure, the concentration for individual hazardous substances shall not be adjusted downward to less than the practical quantitation limit or natural background.

(7) **Reference doses.**

(a) The chronic reference dose/reference concentration and the developmental reference dose/reference concentration shall be used to establish cleanup levels and remediation levels under this chapter. Cleanup levels and remediation levels shall be established using the value which results in the most protective concentration.

(b) Inhalation reference doses/reference concentrations shall be used in WAC 173-340-750. Where the inhalation reference dose/reference concentration is reported as a concentration in air, that value shall be converted to a corresponding inhaled intake (mg/kg-day) using a human body weight of 70 kg and an inhalation rate of 20 m^3/day, and take into account, where available, the respiratory deposition and absorption characteristics of the gases and inhaled particles.

(c) A subchronic reference dose/reference concentration may be used to evaluate potential noncarcinogenic effects resulting from exposure to hazardous substances over short periods of time. This value may be used in place of the chronic reference dose/reference concentration where it can be demonstrated that a particular hazardous substance will degrade to negligible concentrations during the exposure period.

(d) For purposes of establishing cleanup levels and remediation levels for hazardous substances under this chapter, a reference dose/reference concentration established by the United States Environmental Protection Agency and available through the "integrated risk information system" (IRIS) data base shall be used. If a reference dose/reference concen-

tration is not available through the IRIS data base, a reference dose/reference concentration from the U.S. EPA Health Effects Assessment Summary Table ("HEAST") data base or, if more appropriate, the National Center for Environmental Assessment ("NCEA") shall be used.

(e) If a reference dose/reference concentration is available through IRIS, HEAST, or the NCEA, it shall be used unless the department determines that there is clear and convincing scientific data which demonstrates that the use of this value is inappropriate.

(f) If a reference dose/reference concentration for a hazardous substance including petroleum fractions and petroleum constituents is not available through IRIS, HEAST or the NCEA or is demonstrated to be inappropriate under (e) of this subsection and the department determines that development of a reference dose/reference concentration is necessary for the hazardous substance at the site, then a reference dose/reference concentration shall be established on a case-by-case basis. When establishing a reference dose on a case-by-case basis, the methods described in "Reference Dose (RfD): Description and Use in Health Risk Assessment: Background Document 1A", USEPA, March 15, 1993, shall be used.

(g) In estimating a reference dose/reference concentration for a hazardous substance under (e) or (f) of this subsection, the department shall, as appropriate, consult with the science advisory board, the department of health, and the United States Environmental Protection Agency and may, as appropriate, consult with other qualified persons. Scientific data supporting such a change shall be subject to the requirements under WAC 173-340-702 (14), (15) and (16). Once the department has established a reference dose/reference concentration for a hazardous substance under this provision, the department is not required to consult again for the same hazardous substance.

(h) Where a reference dose/reference concentration other than those established under (d) or (g) of this subsection is used to establish a cleanup level or remediation level at individual sites, the department shall summarize the scientific rationale for the use of those values in the cleanup action plan. The department shall provide the opportunity for public review and comment on this value in accordance with the requirements of WAC 173-340-380 and 173-340-600.

(8) **Carcinogenic potency factor.**

(a) For purposes of establishing cleanup levels and remediation levels for hazardous substances under this chapter, a carcinogenic potency factor established by the United States Environmental Protection Agency and available through the IRIS data base shall be used. If a carcinogenic potency factor is not available from the IRIS data base, a carcinogenic potency factor from HEAST or, if more appropriate, from the NCEA shall be used.

(b) If a carcinogenic potency factor is available from the IRIS, HEAST or the NCEA, it shall be used unless the department determines that there is clear and convincing scientific data which demonstrates that the use of this value is inappropriate.

(c) If a carcinogenic potency factor is not available through IRIS, HEAST or the NCEA or is demonstrated to be inappropriate under (b) of this subsection and the department determines that development of a cancer potency factor is necessary for the hazardous substance at the site, then one of the following methods shall be used to establish a carcinogenic potency factor:

(i) The carcinogenic potency factor may be derived from appropriate human epidemiology data on a case-by-case basis; or

(ii) The carcinogenic potency factor may be derived from animal bioassay data using the following procedures:

(A) All carcinogenicity bioassays shall be reviewed and data of appropriate quality shall be used for establishing the carcinogenic potency factor.

(B) The linearized multistage extrapolation model shall be used to estimate the slope of the dose-response curve unless the department determines that there is clear and convincing scientific data which demonstrates that the use of an alternate extrapolation model is more appropriate;

(C) All doses shall be adjusted to give an average daily dose over the study duration; and

(D) An interspecies scaling factor shall be used to take into account differences between animals and humans. For oral carcinogenic toxicity values this scaling factor shall be based on the assumption that milligrams per surface area is an equivalent dose between species unless the department determines there is clear and convincing scientific data which demonstrates that an alternate procedure is more appropriate. The slope of the dose response curve for the test species shall be multiplied by this scaling factor in order to obtain the carcinogenic potency factor, except where such scaling factors are incorporated into the extrapolation model under (B) of this subsection. The procedure to derive a human equivalent concentration of inhaled particles and gases shall take into account, where available, the respiratory deposition and absorption characteristics of the gases and inhaled particles. Where adequate pharmacokinetic and metabolism studies are available, data from these studies may be used to adjust the interspecies scaling factor.

(d) **Mixtures of dioxins and furans.** When establishing and determining compliance with cleanup levels and remediation levels for mixtures of chlorinated dibenzo-p-dioxins (dioxins) and/or chlorinated dibenzofurans (furans), the following procedures shall be used:

(i) **Assessing as single hazardous substance.** When establishing and determining compliance with cleanup levels and remediation levels, including when determining compliance with the excess cancer risk requirements in this chapter, mixtures of dioxins and/or furans shall be considered a single hazardous substance.

(ii) **Establishing cleanup levels and remediation levels.** The cleanup levels and remediation levels established for 2,3,7,8 tetrachloro dibenzo-p-dioxin (2,3,7,8-TCDD) shall be used, respectively, as the cleanup levels and remediation levels for mixtures of dioxins and/or furans.

(iii) **Determining compliance with cleanup levels and remediation levels.** When determining compliance with the cleanup levels and remediation levels established for mixtures of dioxins and/or furans, the following procedures shall be used:

(A) Calculate the total toxic equivalent concentration of 2,3,7,8-TCDD for each sample of the mixture. The total toxic equivalent concentration shall be calculated using the following method, unless the department determines that there is

clear and convincing scientific data which demonstrates that the use of this method is inappropriate:

(I) Analyze samples from the medium of concern to determine the concentration of each dioxin and furan congener listed in Table 708-1;

(II) For each sample analyzed, multiply the measured concentration of each congener in the sample by its corresponding toxicity equivalency factor (TEF) in Table 708-1 to obtain the toxic equivalent concentration of 2,3,7,8-TCDD for that congener; and

(III) For each sample analyzed, add together the toxic equivalent concentrations of all the congeners within the sample to obtain the total toxic equivalent concentration of 2,3,7,8-TCDD for that sample.

(B) After calculating the total toxic equivalent concentration of each sample of the mixture, use the applicable compliance monitoring requirements in WAC 173-340-720 through 173-340-760 to determine whether the total toxic equivalent concentrations of the samples comply with the cleanup level or remediation level for the mixture at the applicable point of compliance.

(iv) **Protecting the quality of other media.** When establishing cleanup levels and remediation levels for mixtures of dioxins and/or furans in a medium of concern that are based on protection of another medium (the receiving medium) (e.g., soil levels protective of ground water quality), the following procedures shall be used:

(A) The cleanup level or remediation level for 2,3,7,8-TCDD in the receiving medium shall be used, respectively, as the cleanup level or remediation level for the receiving medium.

(B) When determining the concentrations in the medium of concern that will achieve the cleanup level or remediation level in the receiving medium, the congener-specific physical and chemical properties shall be considered during that assessment.

(e) **Mixtures of carcinogenic PAHs.** When establishing and determining compliance with cleanup levels and remediation levels for mixtures of carcinogenic polycyclic aromatic hydrocarbons (carcinogenic PAHs), the following procedures shall be used:

(i) **Assessing as single hazardous substance.** When establishing and determining compliance with cleanup levels and remediation levels, including when determining compliance with the excess cancer risk requirements in this chapter, mixtures of carcinogenic PAHs shall be considered a single hazardous substance.

(ii) **Establishing cleanup levels and remediation levels.** The cleanup levels and remediation levels established for benzo(a)pyrene shall be used, respectively, as the cleanup levels and remediation levels for mixtures of carcinogenic PAHs.

(iii) **Determining compliance with cleanup levels and remediation levels.** When determining compliance with cleanup levels and remediation levels established for mixtures of carcinogenic PAHs, the following procedures shall be used:

(A) Calculate the total toxic equivalent concentration of benzo (a) pyrene for each sample of the mixture. The total toxic equivalent concentration shall be calculated using the following method, unless the department determines that there is clear and convincing scientific data which demonstrates that the use of this method is inappropriate:

(I) Analyze samples from the medium of concern to determine the concentration of each carcinogenic PAH listed in Table 708-2 and, for those carcinogenic PAHs required by the department under WAC 173-340-708 (8)(e)(iv), in Table 708-3;

(II) For each sample analyzed, multiply the measured concentration of each carcinogenic PAH in the sample by its corresponding toxicity equivalency factor (TEF) in Tables 708-2 and 708-3 to obtain the toxic equivalent concentration of benzo(a)pyrene for that carcinogenic PAH; and

(III) For each sample analyzed, add together the toxic equivalent concentrations of all the carcinogenic PAHs within the sample to obtain the total toxic equivalent concentration of benzo(a)pyrene for that sample.

(B) After calculating the total toxic equivalent concentration of each sample of the mixture, use the applicable compliance monitoring requirements in WAC 173-340-720 through 173-340-760 to determine whether the total toxic equivalent concentrations of the samples comply with the cleanup level or remediation level for the mixture at the applicable point of compliance.

(iv) **Protecting the quality of other media.** When establishing cleanup levels and remediation levels for mixtures of carcinogenic PAHs in a medium of concern that are based on protection of another medium (the receiving medium) (e.g., soil levels protective of ground water quality), the following procedures shall be used:

(A) The cleanup level or remediation level for benzo(a)pyrene in the receiving medium shall be used, respectively, as the cleanup level or remediation level for the receiving medium.

(B) When determining the concentrations in the medium of concern that will achieve the cleanup level or remediation level in the receiving medium, the carcinogenic PAH-specific physical and chemical properties shall be considered during that assessment.

(v) When using this methodology, at a minimum, the compounds in Table 708-2 shall be analyzed for and included in the calculations. The department may require additional compounds in Table 708-3 to be included in the methodology should site testing data or information from other comparable sites or waste types indicate the additional compounds are potentially present at the site. *NOTE: Many of the polycyclic aromatic hydrocarbons in Table 708-3 are found primarily in air emissions from combustion sources and may not be present in the soil or water at contaminated sites. Users should consult with the department for information on the need to test for these additional compounds.*

(f) **PCB mixtures.** When establishing and determining compliance with cleanup levels and remediation levels for polychlorinated biphenyls (PCBs) mixtures, the following procedures shall be used:

(i) **Assessing as single hazardous substance.** When establishing and determining compliance with cleanup levels and remediation levels, including when determining compliance with the excess cancer risk requirements in this chapter, PCB mixtures shall be considered a single hazardous substance.

(ii) **Establishing cleanup levels and remediation levels.** When establishing cleanup levels and remediation levels under Methods B and C for PCB mixtures, the following procedures shall be used unless the department determines that there is clear and convincing scientific data which demonstrates that the use of these methods is inappropriate:

(A) Assume the PCB mixture is equally potent and use the appropriate carcinogenic potency factor provided for under WAC 173-340-708 (8)(a) through (c) for the entire mixture; or

(B) Use the toxicity equivalency factors for the dioxin-like PCBs congeners in Table 708-4 and procedures approved by the department. When using toxicity equivalency factors, the department may require that the health effects posed by the dioxin-like PCB congeners and non-dioxin-like PCB congeners be considered in the evaluation.

(iii) **Determining compliance with cleanup levels and remediation levels.** When determining compliance with cleanup levels and remediation levels established for PCB mixtures, the following procedures shall be used:

(A) Analyze compliance monitoring samples for a total PCB concentration and use the applicable compliance monitoring requirements in WAC 173-340-720 through 173-340-760 to determine whether the total PCB concentrations of the samples complies with the cleanup level or remediation level for the mixture at the applicable point of compliance; or

(B) When using toxicity equivalency factors to determine compliance with cleanup or remediation levels for PCB mixtures, use procedures approved by the department.

(g) In estimating a carcinogenic potency factor for a hazardous substance under (c) of this subsection, or approving the use of a toxicity equivalency factor other than that established under (d), (e) or (f) of this subsection, the department shall, as appropriate, consult with the science advisory board, the department of health, and the United States Environmental Protection Agency and may, as appropriate, consult with other qualified persons. Scientific data supporting such a change shall be subject to the requirements under WAC 173-340-702 (14), (15) and (16). Once the department has established a carcinogenic potency factor or approved an alternative toxicity equivalency factor for a hazardous substance under this provision, the department is not required to consult again for the same hazardous substance.

(h) Where a carcinogenic potency factor other than that established under (a) of this subsection or a toxicity equivalency factor other than that established under (d), (e) or (f) of this subsection is used to establish cleanup levels or remediation levels at individual sites, the department shall summarize the scientific rationale for the use of that value in the cleanup action plan. The department shall provide the opportunity for public review and comment on this value in accordance with the requirements of WAC 173-340-380 and 173-340-600.

(9) **Bioconcentration factors.**

(a) For purposes of establishing cleanup levels and remediation levels for a hazardous substance under WAC 173-340-730, a bioconcentration factor established by the United States Environmental Protection Agency and used to establish the ambient water quality criterion for that substance under section 304 of the Clean Water Act shall be used. These values shall be used unless the department determines that there is adequate scientific data which demonstrates that the use of an alternate value is more appropriate. If the department determines that a bioconcentration factor is appropriate for a specific hazardous substance and no such factor has been established by USEPA, then other appropriate EPA documents, literature sources or empirical information may be used to determine a bioconcentration factor.

(b) When using a bioconcentration factor other than that used to establish the ambient water quality criterion, the department shall, as appropriate, consult with the science advisory board, the department of health, and the United States Environmental Protection Agency. Scientific data supporting such a value shall be subject to the requirements under WAC 173-340-702 (14), (15) and (16). Once the department has established a bioconcentration factor for a hazardous substance under this provision, the department is not required to consult again for the same hazardous substance.

(c) Where a bioconcentration factor other than that established under (a) of this subsection is used to establish cleanup levels or remediation levels at individual sites, the department shall summarize the scientific rationale for the use of that factor in the draft cleanup action plan. The department shall provide the opportunity for public review and comment on the value in accordance with the requirements of WAC 173-340-380 and 173-340-600.

(10) **Exposure parameters.**

(a) As a matter of policy, the department has defined in WAC 173-340-720 through 173-340-760 the default values for exposure parameters to be used when establishing cleanup levels and remediation levels under this chapter. Except as provided for in (b) and (c) of this subsection and in WAC 173-340-720 through 173-340-760, these default values shall not be changed for individual hazardous substances or sites.

(b) Exposure parameters that are primarily a function of the exposed population characteristics (such as body weight and lifetime) and those that are primarily a function of human behavior that cannot be controlled through an engineered or institutional control (such as: Fish consumption rate; soil ingestion rate; drinking water ingestion rate; and breathing rate) are not expected to vary on a site-by-site basis. The default values for these exposure parameters shall not be changed when calculating cleanup levels except when necessary to establish a more stringent cleanup level to protect human health. For remediation levels the default values for these exposure parameters may only be changed when an alternate reasonable maximum exposure scenario is used, as provided for in WAC 173-340-708 (3)(d), that reflects a different exposed population such as using an adult instead of a child exposure scenario. Other exposure parameters may be changed only as follows:

(i) For calculation of cleanup levels, the types of exposure parameters that may be changed are those that are:

(A) Primarily a function of reliably measurable characteristics of the hazardous substance, soil, hydrologic or hydrogeologic conditions at the site; and

(B) Not dependent on the success of engineered controls or institutional controls for controlling exposure of persons to the hazardous substances at the site.

The default values for these exposure parameters may be changed where there is adequate scientific data to demon-

strate that use of an alternative or additional value would be more appropriate for the conditions present at the site. Examples of exposure parameters for which the default values may be changed under this provision are as follows: Contaminant leaching and transport variables (such as the soil organic carbon content, aquifer permeability and soil sorption coefficient); inhalation correction factor; fish bioconcentration factor; soil gastrointestinal absorption fraction; and inhalation absorption percentage.

(ii) For calculation of remediation levels, in addition to the exposure parameters that may be changed under (b)(i) of this subsection, the types of exposure parameters that may be changed from the default values are those where a demonstration can be made that the proposed cleanup action uses engineered controls and/or institutional controls that can be successfully relied on, for the reasonably foreseeable future, to control contaminant mobility and/or exposure to the contamination remaining on the site. In general, exposure parameters that may be changed under this provision are those that define the exposure frequency, exposure duration and exposure time. The default values for these exposure parameters may be changed where there is adequate scientific data to demonstrate that use of an alternative or additional value would be more appropriate for the conditions present at the site. Examples of exposure parameters for which the default value may be changed under this provision are as follows: Infiltration rate; frequency of soil contact; duration of soil exposure; duration of drinking water exposure; duration of air exposure; drinking water fraction; and fish diet fraction.

(c) When the modifications provided for in (b) of this subsection result in significantly higher values for cleanup levels or remediation levels than would be calculated using the default values for exposure parameters, the risk from other potentially relevant pathways of exposure shall be addressed under the procedures provided for in WAC 173-340-720 through 173-340-760. For exposure pathways and parameters for which default values are not specified in this chapter, the framework provided for by this subsection, along with the quality of information requirements in WAC 173-340-702, shall be used to establish appropriate or additional assumptions for these parameters and pathways.

(d) Where the department approves the use of exposure parameters other than those established under WAC 173-340-720 through 173-340-760 to establish cleanup levels or remediation levels at individual sites, the department shall summarize the scientific rationale for the use of those parameters in the cleanup action plan. The department shall provide the opportunity for public review and comment on those values in accordance with the requirements of WAC 173-340-380 and 173-340-600. Scientific data supporting such a change shall be subject to the requirements under WAC 173-340-702 (14), (15) and (16).

(11) **Probabilistic risk assessment.** Probabilistic risk assessment methods may be used under this chapter only on an informational basis for evaluating alternative remedies. Such methods shall not be used to replace cleanup standards and remediation levels derived using deterministic methods under this chapter until the department has adopted rules describing adequate technical protocols and policies for the use of probabilistic risk assessment under this chapter.

[Statutory Authority: RCW 70.105D.030(2). 07-21-065 (Order 06-10), § 173-340-708, filed 10/12/07, effective 11/12/07. Statutory Authority: Chapter 70.105D RCW. 01-05-024 (Order 97-09A), § 173-340-708, filed 2/12/01, effective 8/15/01; 91-04-019, § 173-340-708, filed 1/28/91, effective 2/28/91.]

WAC 173-340-740 Unrestricted land use soil cleanup standards. (1) **General considerations.**

(a) Presumed exposure scenario soil cleanup levels shall be based on estimates of the reasonable maximum exposure expected to occur under both current and future site use conditions. The department has determined that residential land use is generally the site use requiring the most protective cleanup levels and that exposure to hazardous substances under residential land use conditions represents the reasonable maximum exposure scenario. Unless a site qualifies for use of an industrial soil cleanup level under WAC 173-340-745, soil cleanup levels shall use this presumed exposure scenario and be established in accordance with this section.

(b) In the event of a release of a hazardous substance to the soil at a site, a cleanup action complying with this chapter shall be conducted to address all areas where the concentration of hazardous substances in the soil exceeds cleanup levels at the relevant point of compliance.

(c) The department may require more stringent soil cleanup standards than required by this section where, based on a site-specific evaluation, the department determines that this is necessary to protect human health and the environment. Any imposition of more stringent requirements under this provision shall comply with WAC 173-340-702 and 173-340-708. The following are examples of situations that may require more stringent cleanup levels.

(i) Concentrations that eliminate or substantially reduce the potential for food chain contamination;

(ii) Concentrations that eliminate or substantially reduce the potential for damage to soils or biota in the soils which could impair the use of soils for agricultural or silvicultural purposes;

(iii) Concentrations necessary to address the potential health risk posed by dust at a site;

(iv) Concentrations necessary to protect the ground water at a particular site;

(v) Concentrations necessary to protect nearby surface waters from hazardous substances in runoff from the site; and

(vi) Concentrations that eliminate or minimize the potential for the accumulation of vapors in buildings or other structures.

(d) Relationship between soil cleanup levels and other cleanup standards. Soil cleanup levels shall be established at concentrations that do not directly or indirectly cause violations of ground water, surface water, sediment, or air cleanup standards established under this chapter or applicable state and federal laws. A property that qualifies for a Method C soil cleanup level under WAC 173-340-745 does not necessarily qualify for a Method C cleanup level in other media. Each medium must be evaluated separately using the criteria applicable to that medium.

(2) **Method A soil cleanup levels for unrestricted land use.**

(a) **Applicability.** Method A soil cleanup levels may only be used at sites qualifying under WAC 173-340-704(1).

(b) **General requirements.** Method A soil cleanup levels shall be at least as stringent as all of the following:

(i) Concentrations in Table 740-1 and compliance with the corresponding footnotes;

(ii) Concentrations established under applicable state and federal laws;

(iii) Concentrations that result in no significant adverse effects on the protection and propagation of terrestrial ecological receptors using the procedures specified in WAC 173-340-7490 through 173-340-7493, unless it is demonstrated under those sections that establishing a soil concentration is unnecessary; and

(iv) For a hazardous substance that is deemed an indicator hazardous substance under WAC 173-340-708(2) and for which there is no value in Table 740-1 or applicable state and federal laws, a concentration that does not exceed the natural background concentration or the practical quantification limit, subject to the limitations in this chapter.

(3) **Method B soil cleanup levels for unrestricted land use.**

(a) **Applicability.** Method B soil cleanup levels consist of standard and modified cleanup levels determined using the procedures in this subsection. Either standard or modified Method B soil cleanup levels may be used at any site.

(b) **Standard Method B soil cleanup levels.** Standard Method B cleanup levels for soils shall be at least as stringent as all of the following:

(i) **Applicable state and federal laws.** Concentrations established under applicable state and federal laws;

(ii) **Environmental protection.** Concentrations that result in no significant adverse effects on the protection and propagation of terrestrial ecological receptors established using the procedures specified in WAC 173-340-7490 through 173-340-7494 unless it is demonstrated under those sections that establishing a soil concentration is unnecessary.

(iii) **Human health protection.** For hazardous substances for which sufficiently protective, health-based criteria or standards have not been established under applicable state and federal laws, those concentrations that protect human health as determined by evaluating the following exposure pathways:

(A) **Ground water protection.** Concentrations that will not cause contamination of ground water at levels which exceed ground water cleanup levels established under WAC 173-340-720 as determined using the methods described in WAC 173-340-747.

(B) **Soil direct contact.** Concentrations that, due to direct contact with contaminated soil, are estimated to result in no acute or chronic noncarcinogenic toxic effects on human health using a hazard quotient of one (1) and concentrations for which the upper bound on the estimated excess cancer risk is less than or equal to one in one million (1×10^{-6}). Equations 740-1 and 740-2 and the associated default assumptions shall be used to calculate the concentration for direct contact with contaminated soil.

(I) **Noncarcinogens.** For noncarcinogenic toxic effects of hazardous substances due to soil ingestion, concentrations shall be determined using Equation 740-1. For petroleum mixtures and components of such mixtures, see (b)(iii)(B)(III) of this subsection.

[Equation 740-1]

$$\text{Soil Cleanup Level (mg/kg)} = \frac{\text{RfD x ABW x UCF x HQ x AT}}{\text{SIR x AB1 x EF x ED}}$$

Where:

RfD	=	Reference dose as defined in WAC 173-340-708(7) (mg/kg-day)
ABW	=	Average body weight over the exposure duration (16 kg)
UCF	=	Unit conversion factor (1,000,000 mg/kg)
SIR	=	Soil ingestion rate (200 mg/day)
AB1	=	Gastrointestinal absorption fraction (1.0) (unitless)
EF	=	Exposure frequency (1.0) (unitless)
HQ	=	Hazard quotient (1) (unitless)
AT	=	Averaging time (6 years)
ED	=	Exposure duration (6 years)

(II) **Carcinogens.** For carcinogenic effects of hazardous substances due to soil ingestion, concentrations shall be determined using Equation 740-2. For petroleum mixtures and components of such mixtures, see (b)(iii)(B)(III) of this subsection.

[Equation 740-2]

$$\text{Soil Cleanup Level (mg/kg)} = \frac{\text{RISK x ABW x AT x UCF}}{\text{CPF x SIR x AB1 x ED x EF}}$$

Where:

RISK	=	Acceptable cancer risk level (1 in 1,000,000) (unitless)
ABW	=	Average body weight over the exposure duration (16 kg)
AT	=	Averaging time (75 years)
UCF	=	Unit conversion factor (1,000,000 mg/kg)
CPF	=	Carcinogenic potency factor as defined in WAC 173-340-708(8) (kg-day/mg)
SIR	=	Soil ingestion rate (200 mg/day)
AB1	=	Gastrointestinal absorption fraction (1.0) (unitless). May use 0.6 for mixtures of dioxins and/or furans
ED	=	Exposure duration (6 years)
EF	=	Exposure frequency (1.0) (unitless)

(III) **Petroleum mixtures.** For noncarcinogenic effects of petroleum mixtures, a total petroleum hydrocarbon cleanup level shall be calculated taking into account the additive effects of the petroleum fractions and volatile organic compounds substances present in the petroleum mixture. Equation 740-3 shall be used for this calculation. This equation takes into account concurrent exposure due to ingestion and dermal contact with petroleum contaminated soils. Cleanup levels for other noncarcinogens and known or suspected carcinogens within the petroleum mixture shall be calculated using Equations 740-4 and 740-5. See Table 830-1 for the analyses required for various petroleum products to use this method.

[Equation 740-3]

$$C_{soil} = \frac{HI \times ABW \times AT}{EF \times ED\left[\left(\frac{SIR \times AB1}{10^6 mg/kg}\sum_{i=1}^{n}\frac{F(i)}{RfDo(i)}\right)+\left(\frac{SA \times AF}{10^6 mg/kg}\sum_{i=1}^{n}\frac{F(i)\times ABS(i)}{RfDd(i)}\right)\right]}$$

Where:

C_{soil}	=	TPH soil cleanup level (mg/kg)
HI	=	Hazard index (1) (unitless)
ABW	=	Average body weight over the exposure duration (16 kg)
AT	=	Averaging time (6 years)
EF	=	Exposure frequency (1.0) (unitless)
ED	=	Exposure duration (6 years)
SIR	=	Soil ingestion rate (200 mg/day)
AB1	=	Gastrointestinal absorption fraction (1.0) (unitless)

F(i) = Fraction (by weight) of petroleum component (i) (unitless)
SA = Dermal surface area (2,200 cm^2)
AF = Adherence factor (0.2 mg/cm^2-day)
ABS = Dermal absorption fraction for petroleum component (i) (unitless). May use chemical-specific values or the following defaults:
- 0.0005 for volatile petroleum components with vapor press >= benzene
- 0.03 for volatile petroleum components with vapor press < benzene
- 0.1 for other petroleum components

RfDo(i) = Oral reference dose of petroleum component (i) as defined in WAC 173-340-708(7) (mg/kg-day)
RfDd(i) = Dermal reference dose for petroleum component (i) (mg/kg-day) derived by RfDo x GI
GI = Gastrointestinal absorption conversion factor (unitless). May use chemical-specific values or the following defaults:
- 0.8 for volatile petroleum components
- 0.5 for other petroleum components

n = The number of petroleum components (petroleum fractions plus volatile organic compounds with an RfD) present in the petroleum mixture. (See Table 830-1.)

(C) **Soil vapors.** The soil to vapor pathway shall be evaluated for volatile organic compounds whenever any of the following conditions exist:

(I) For gasoline range organics, whenever the total petroleum hydrocarbon (TPH) concentration is significantly higher than a concentration derived for protection of ground water for drinking water beneficial use under WAC 173-340-747(6) using the default assumptions;

(II) For diesel range organics, whenever the total petroleum hydrocarbon (TPH) concentration is greater than 10,000 mg/kg;

(III) For other volatile organic compounds, including petroleum components, whenever the concentration is significantly higher than a concentration derived for protection of ground water for drinking water beneficial use under WAC 173-340-747(4).

See subsection (3)(c)(iv)(B) of this section for methods that may be used to evaluate the soil to vapor pathway.

(c) **Modified Method B soil cleanup levels.**

(i) **General.** Modified Method B soil cleanup levels are standard Method B soil cleanup levels, modified with chemical-specific or site-specific data. When making these modifications, the resultant cleanup levels shall meet applicable state and federal laws, meet health risk levels for standard Method B soil cleanup levels, and be demonstrated to be environmentally protective using the procedures specified in WAC 173-340-7490 through 173-340-7494. Changes to exposure assumptions must comply with WAC 173-340-708(10).

(ii) **Allowable modifications.** The following modifications can be made to the default assumptions in the standard Method B equations to derive modified Method B soil cleanup levels:

(A) For the protection of ground water, see WAC 173-340-747;

(B) For soil ingestion, the gastrointestinal absorption fraction, may be modified if the requirements of WAC 173-340-702 (14), (15), (16), and 173-340-708(10) are met;

(C) For dermal contact, the adherence factor, dermal absorption fraction and gastrointestinal absorption conversion factor may be modified if the requirements of WAC 173-340-702 (14), (15), (16), and 173-340-708(10) are met;

(D) The toxicity equivalent factors provided in WAC 173-340-708 (8)(d), (e), and (f), may be modified if the requirements of WAC 173-340-708 (8)(g) and (h) are met;

(E) The reference dose and cancer potency factor may be modified if the requirements in WAC 173-340-708 (7) and (8) are met; and

(F) Other modifications incorporating new science as provided for in WAC 173-340-702 (14), (15) and (16).

(iii) **Dermal contact.** For hazardous substances other than petroleum mixtures, dermal contact with the soil shall be evaluated whenever the proposed changes to Equations 740-1 or 740-2 would result in a significantly higher soil cleanup level than would be calculated without the proposed changes. When conducting this evaluation, the following equations and default assumptions shall be used.

(A) For noncarcinogens use Equation 740-4. This equation takes into account concurrent exposure due to ingestion and dermal contact with soil.

[Equation 740-4]

$$C_{soil} = \frac{HQ \times ABW \times AT}{EF \times ED\left[\left(\frac{1}{RfDo} \times \frac{SIR \times AB1}{10^6 mg/kg}\right) + \left(\frac{1}{RfDd} \times \frac{SA \times AF \times ABS}{10^6 mg/kg}\right)\right]}$$

Where:
C_{soil} = Soil cleanup level (mg/kg)
HQ = Hazard quotient (unitless)
ABW = Average body weight over the exposure duration (16 kg)
AT = Averaging time (6 years)
EF = Exposure frequency (1.0) (unitless)
ED = Exposure duration (6 years)
SIR = Soil ingestion rate (200 mg/day)
AB1 = Gastrointestinal absorption fraction (1.0) (unitless)
SA = Dermal surface area (2,200 cm^2)
AF = Adherence factor (0.2 mg/cm^2-day)
ABS = Dermal absorption fraction (unitless). May use chemical-specific values or the following defaults:
- 0.01 for inorganic hazardous substances
- 0.0005 for volatile organic compounds with vapor press >= benzene
- 0.03 for volatile organic compounds with vapor press < benzene
- 0.1 for other organic hazardous substances

RfDo = Oral reference dose as defined in WAC 173-340-708(7) (mg/kg-day)
RfDd = Dermal reference dose (mg/kg-day) derived by RfDo x GI
GI = Gastrointestinal absorption conversion factor (unitless). May use chemical specific values or the following defaults:
- 0.2 for inorganic hazardous substances
- 0.8 for volatile organic compounds
- 0.5 for other organic hazardous substances

(B) For carcinogens use Equation 740-5. This equation takes into account concurrent exposure due to ingestion and dermal contact with soil.

[Equation 740-5]

$$C_{soil} = \frac{RISK \times ABW \times AT}{EF \times ED \left[\left(\frac{SIR \times AB1 \times CPFo}{10^6 mg/kg} \right) + \left(\frac{SA \times AF \times ABS \times CPFd}{10^6 mg/kg} \right) \right]}$$

Where:

C_{soil}	=	Soil cleanup level (mg/kg)
RISK	=	Acceptable cancer risk (1 in 1,000,000) (unitless)
ABW	=	Average body weight over the exposure duration (16 kg)
AT	=	Averaging time (75 years)
EF	=	Exposure frequency (1.0) (unitless)
ED	=	Exposure duration (6 years)
SIR	=	Soil ingestion rate (200 mg/day)
AB1	=	Gastrointestinal absorption fraction (1.0) (unitless). May use 0.6 for mixtures of dioxins and/or furans
CPFo	=	Oral cancer potency factor as defined in WAC 173-340-708(8) (kg-day/mg)
CPFd	=	Dermal cancer potency factor (kg-day/mg) derived by CPFo/GI
GI	=	Gastrointestinal absorption conversion factor (unitless). May use chemical-specific values or the following defaults: • 0.2 for inorganic hazardous substances • 0.8 for volatile organic compounds and for mixtures of dioxins and/or furans • 0.5 for other organic hazardous substances
SA	=	Dermal surface area (2,200 cm^2)
AF	=	Adherence factor (0.2 mg/cm^2-day)
ABS	=	Dermal absorption fraction (unitless). May use chemical-specific values or the following defaults: • 0.01 for inorganic hazardous substances • 0.0005 for volatile organic compounds with vapor press > = benzene • 0.03 for volatile organic compounds with vapor press < benzene and for mixtures of dioxins and/or furans • 0.1 for other organic hazardous substances

(C) Modifications may be made to Equations 740-4 and 740-5 as provided for in subsection (3)(c)(ii) of this section.

(iv) **Soil vapors.**

(A) **Applicability.** The soil to vapor pathway shall be evaluated for volatile organic compounds whenever any of the following conditions exist:

(I) For other than petroleum hydrocarbon mixtures, the proposed changes to the standard Method B equations (Equations 740-1 and 740-2) or default values would result in a significantly higher soil cleanup level than would be calculated without the proposed changes;

(II) For petroleum hydrocarbon mixtures, the proposed changes to the standard Method B equations (Equations 740-3, 740-4 and 740-5) or default values would result in a significantly higher soil cleanup level than would be calculated without the proposed changes;

(III) For gasoline range organics, whenever the total petroleum hydrocarbon (TPH) concentration is significantly higher than a concentration derived for protection of ground water for drinking water beneficial use under WAC 173-340-747(6) using the default assumptions;

(IV) For diesel range organics, whenever the total petroleum hydrocarbon (TPH) concentration is greater than 10,000 mg/kg;

(V) For other volatile organic compounds, including petroleum components, whenever the concentration is significantly higher than a concentration derived for protection of ground water for drinking water beneficial use under WAC 173-340-747(4).

(B) **Evaluation methods.** Soil cleanup levels that are protective of the indoor and ambient air shall be determined on a site-specific basis. Soil cleanup levels may be evaluated as being protective of air pathways using any of the following methods:

(I) Measurements of the soil vapor concentrations, using methods approved by the department, demonstrating vapors in the soil would not exceed air cleanup levels established under WAC 173-340-750.

(II) Measurements of ambient air concentrations and/or indoor air vapor concentrations throughout buildings, using methods approved by the department, demonstrating air does not exceed cleanup levels established under WAC 173-340-750. Such measurements must be representative of current and future site conditions when vapors are likely to enter and accumulate in structures. Measurement of ambient air may be excluded if it can be shown that indoor air is the most protective point of exposure.

(III) Use of modeling methods approved by the department to demonstrate the air cleanup standards established under WAC 173-340-750 will not be exceeded. When this method is used, the department may require soil vapor and/or air monitoring to be conducted to verify the calculations and compliance with air cleanup standards.

(IV) Other methods as approved by the department demonstrating the air cleanup standards established under WAC 173-340-750 will not be exceeded.

(d) **Using modified Method B to evaluate soil remediation levels.** In addition to the adjustments allowed under subsection (3)(c) of this section, adjustments to the reasonable maximum exposure scenario or default exposure assumptions are allowed when using a quantitative site-specific risk assessment to evaluate the protectiveness of a remedy. See WAC 173-340-355, 173-340-357, and 173-340-708 (3)(d) and (10)(b).

(4) **Method C soil cleanup levels.** This section does not provide procedures for establishing Method C soil cleanup levels. Except for qualifying industrial properties, Method A and Method B, as described in this section, are the only methods available for establishing soil cleanup levels at sites. See WAC 173-340-745 for use of Method C soil cleanup levels at qualifying industrial properties. See also WAC 173-340-357 and 173-340-708 (3)(d) for how land use may be considered when selecting a cleanup action at a site.

(5) **Adjustments to cleanup levels.**

(a) **Total site risk adjustments.** Soil cleanup levels for individual hazardous substances developed in accordance with subsection (3) of this section, including cleanup levels based on applicable state and federal laws, shall be adjusted downward to take into account exposure to multiple hazardous substances and/or exposure resulting from more than one pathway of exposure. These adjustments need to be made only if, without these adjustments, the hazard index would exceed one (1) or the total excess cancer risk would exceed one in one hundred thousand (1×10^{-5}). These adjustments shall be made in accordance with the procedures specified in WAC 173-340-708 (5) and (6). In making these adjustments, the hazard index shall not exceed one (1) and the total excess

cancer risk shall not exceed one in one hundred thousand (1 x 10^{-5}).

(b) **Adjustments to applicable state and federal laws.** Where a cleanup level developed under subsection (2) or (3) of this section is based on an applicable state or federal law and the level of risk upon which the standard is based exceeds an excess cancer risk of one in one hundred thousand (1 x 10^{-5}) or a hazard index of one (1), the cleanup level must be adjusted downward so that the total excess cancer risk does not exceed one in one hundred thousand (1 x 10^{-5}) and the hazard index does not exceed one (1) at the site.

(c) **Natural background and PQL considerations.** Cleanup levels determined under subsection (2) or (3) of this section, including cleanup levels adjusted under subsection (5)(a) and (b) of this section, shall not be set at levels below the practical quantitation limit or natural background, whichever is higher. See WAC 173-340-707 and 173-340-709 for additional requirements pertaining to practical quantitation limits and natural background.

(6) **Point of compliance.**

(a) The point of compliance is the point or points where the soil cleanup levels established under subsection (2) or (3) of this section shall be attained.

(b) For soil cleanup levels based on the protection of ground water, the point of compliance shall be established in the soils throughout the site.

(c) For soil cleanup levels based on protection from vapors, the point of compliance shall be established in the soils throughout the site from the ground surface to the uppermost ground water saturated zone (e.g., from the ground surface to the uppermost water table).

(d) For soil cleanup levels based on human exposure via direct contact or other exposure pathways where contact with the soil is required to complete the pathway, the point of compliance shall be established in the soils throughout the site from the ground surface to fifteen feet below the ground surface. This represents a reasonable estimate of the depth of soil that could be excavated and distributed at the soil surface as a result of site development activities.

(e) For soil cleanup levels based on ecological considerations, see WAC 173-340-7490 for the point of compliance.

(f) The department recognizes that, for those cleanup actions selected under this chapter that involve containment of hazardous substances, the soil cleanup levels will typically not be met at the points of compliance specified in (b) through (e) of this subsection. In these cases, the cleanup action may be determined to comply with cleanup standards, provided:

(i) The selected remedy is permanent to the maximum extent practicable using the procedures in WAC 173-340-360;

(ii) The cleanup action is protective of human health. The department may require a site-specific human health risk assessment conforming to the requirements of this chapter to demonstrate that the cleanup action is protective of human health;

(iii) The cleanup action is demonstrated to be protective of terrestrial ecological receptors under WAC 173-340-7490 through 173-340-7494;

(iv) Institutional controls are put in place under WAC 173-340-440 that prohibit or limit activities that could interfere with the long-term integrity of the containment system;

(v) Compliance monitoring under WAC 173-340-410 and periodic reviews under WAC 173-340-430 are designed to ensure the long-term integrity of the containment system; and

(vi) The types, levels and amount of hazardous substances remaining on-site and the measures that will be used to prevent migration and contact with those substances are specified in the draft cleanup action plan.

(7) **Compliance monitoring.**

(a) Compliance with soil cleanup levels shall be based on total analyses of the soil fraction less than two millimeters in size. When it is reasonable to expect that larger soil particles could be reduced to two millimeters or less during current or future site use and this reduction could cause an increase in the concentrations of hazardous substances in the soil, soil cleanup levels shall also apply to these larger soil particles. Compliance with soil cleanup levels shall be based on dry weight concentrations. The department may approve the use of alternate procedures for stabilized soils.

(b) When soil levels have been established at a site, sampling of the soil shall be conducted to determine if compliance with the soil cleanup levels has been achieved. Sampling and analytical procedures shall be defined in a compliance monitoring plan prepared under WAC 173-340-410. The sample design shall provide data that are representative of the area where exposure to hazardous substances may occur.

(c) The data analysis and evaluation procedures used to evaluate compliance with soil cleanup levels shall be defined in a compliance monitoring plan prepared under WAC 173-340-410. These procedures shall meet the following general requirements:

(i) Methods of data analysis shall be consistent with the sampling design. Separate methods may be specified for surface soils and deeper soils;

(ii) When cleanup levels are based on requirements specified in applicable state and federal laws, the procedures for evaluating compliance that are specified in those requirements shall be used to evaluate compliance with cleanup levels unless those procedures conflict with the intent of this section;

(iii) Where procedures for evaluating compliance are not specified in an applicable state and federal law, statistical methods shall be appropriate for the distribution of sampling data for each hazardous substance. If the distributions for hazardous substances differ, more than one statistical method may be required; and

(iv) The data analysis plan shall specify which parameters are to be used to determine compliance with soil cleanup levels.

(A) For cleanup levels based on short-term or acute toxic effects on human health or the environment, an upper percentile soil concentration shall be used to evaluate compliance with cleanup levels.

(B) For cleanup levels based on chronic or carcinogenic threats, the true mean soil concentration shall be used to evaluate compliance with cleanup levels.

(d) When data analysis procedures for evaluating compliance are not specified in an applicable state or federal law the following procedures shall be used:

(i) A confidence interval approach that meets the following requirements:

(A) The upper one sided ninety-five percent confidence limit on the true mean soil concentration shall be less than the soil cleanup level. For lognormally distributed data, the upper one-sided ninety-five percent confidence limit shall be calculated using Land's method; and

(B) Data shall be assumed to be lognormally distributed unless this assumption is rejected by a statistical test. If a lognormal distribution is inappropriate, data shall be assumed to be normally distributed unless this assumption is rejected by a statistical test. The W test, D'Agostino's test, or, censored probability plots, as appropriate for the data, shall be the statistical methods used to determine whether the data are lognormally or normally distributed;

(ii) For an evaluation conducted under (c)(iv)(A) of this subsection, a parametric test for percentiles based on tolerance intervals to test the proportion of soil samples having concentrations less than the soil cleanup level. When using this method, the true proportion of samples that do not exceed the soil cleanup level shall not be less than ninety percent. Statistical tests shall be performed with a Type I error level of 0.05;

(iii) Direct comparison of soil sample concentrations with cleanup levels may be used to evaluate compliance with cleanup levels where selective sampling of soil can be reliably expected to find suspected soil contamination. There must be documented, reliable information that the soil samples have been taken from the appropriate locations. Persons using this method must demonstrate that the basis used for selecting the soil sample locations provides a high probability that any existing areas of soil contamination have been found; or

(iv) Other statistical methods approved by the department.

(e) All data analysis methods used, including those specified in state and federal law, must meet the following requirements:

(i) No single sample concentration shall be greater than two times the soil cleanup level. Higher exceedances to control false positive error rates at five percent may be approved by the department when the cleanup level is based on background concentrations; and

(ii) Less than ten percent of the sample concentrations shall exceed the soil cleanup level. Higher exceedances to control false positive error rates at five percent may be approved by the department when the cleanup level is based on background concentrations.

(f) When using statistical methods to demonstrate compliance with soil cleanup levels, the following procedures shall be used for measurements below the practical quantitation limit:

(i) Measurements below the method detection limit shall be assigned a value equal to one-half the method detection limit when not more than fifteen percent of the measurements are below the practical quantitation limit.

(ii) Measurements above the method detection limit but below the practical quantitation limit shall be assigned a value equal to the method detection limit when not more than fifteen percent of the measurements are below the practical quantitation limit.

(iii) When between fifteen and fifty percent of the measurements are below the practical quantitation limit and the data are assumed to be lognormally or normally distributed, Cohen's method shall be used to calculate a corrected mean and standard deviation for use in calculating an upper confidence limit on the true mean soil concentration.

(iv) If more than fifty percent of the measurements are below the practical quantitation limit, the largest value in the data set shall be used in place of an upper confidence limit on the true mean soil concentration.

(v) The department may approve alternate statistical procedures for handling nondetected values or values below the practical quantitation limit.

(vi) If a hazardous substance or petroleum fraction has never been detected in any sample at a site and these substances are not suspected of being present at the site based on site history and other knowledge, that hazardous substance or petroleum fraction may be excluded from the statistical analysis.

[Statutory Authority: RCW 70.105D.030(2). 07-21-065 (Order 06-10), § 173-340-740, filed 10/12/07, effective 11/12/07. Statutory Authority: Chapter 70.105D RCW. 01-05-024 (Order 97-09A), § 173-340-740, filed 2/12/01, effective 8/15/01; 96-04-010 (Order 94-37), § 173-340-740, filed 1/26/96, effective 2/26/96; 91-04-019, § 173-340-740, filed 1/28/91, effective 2/28/91.]

Reviser's note: The brackets and enclosed material in the text of the above section occurred in the copy filed by the agency.

WAC 173-340-745 Soil cleanup standards for industrial properties. (1) **Applicability.**

(a) Criteria. This section shall be used to establish soil cleanup levels where the department has determined that industrial land use represents the reasonable maximum exposure. Soil cleanup levels for this presumed exposure scenario shall be established in accordance with this section. To qualify as an industrial land use and to use an industrial soil cleanup level a site must meet the following criteria:

(i) The area of the site where industrial property soil cleanup levels are proposed must meet the definition of an industrial property under WAC 173-340-200;

Industrial soil cleanup levels are based on an adult worker exposure scenario. It is essential to evaluate land uses and zoning for compliance with this definition in the context of this exposure scenario. Local governments use a variety of zoning categories for industrial land uses so a property does not necessarily have to be in a zone called "industrial" to meet the definition of "industrial property." Also, there are land uses allowed in industrial zones that are actually commercial or residential, rather than industrial, land uses. Thus, an evaluation to determine compliance with this definition should include a review of the actual text in the comprehensive plan and zoning ordinance pertaining to the site and a visit to the site to observe land uses in the zone. When evaluating land uses to determine if a property use not specifically listed in the definition is a "traditional industrial use" or to determine if the property is "zoned for industrial use," the following characteristics shall be considered:

(A) People do not normally live on industrial property. The primary potential exposure is to adult employees of businesses located on the industrial property;

(B) Access to industrial property by the general public is generally not allowed. If access is allowed, it is highly limited and controlled due to safety or security considerations;

(C) Food is not normally grown/raised on industrial property. (However, food processing operations are commonly considered industrial facilities);

(D) Operations at industrial properties are often (but not always) characterized by use and storage of chemicals, noise, odors and truck traffic;

(E) The surface of the land at industrial properties is often (but not always) mostly covered by buildings or other structures, paved parking lots, paved access roads and material storage areas—minimizing potential exposure to the soil; and

(F) Industrial properties may have support facilities consisting of offices, restaurants, and other facilities that are commercial in nature but are primarily devoted to administrative functions necessary for the industrial use and/or are primarily intended to serve the industrial facility employees and not the general public.

(ii) The cleanup action provides for appropriate institutional controls implemented in accordance with WAC 173-340-440 to limit potential exposure to residual hazardous substances. This shall include, at a minimum, placement of a covenant on the property restricting use of the area of the site where industrial soil cleanup levels are proposed to industrial property uses; and

(iii) Hazardous substances remaining at the property after remedial action would not pose a threat to human health or the environment at the site or in adjacent nonindustrial areas. In evaluating compliance with this criterion, at a minimum the following factors shall be considered:

(A) The potential for access to the industrial property by the general public, especially children. The proximity of the industrial property to residential areas, schools or childcare facilities shall be considered when evaluating access. In addition, the presence of natural features, manmade structures, arterial streets or intervening land uses that would limit or encourage access to the industrial property shall be considered. Fencing shall not be considered sufficient to limit access to an industrial property since this is insufficient to assure long term protection;

(B) The degree of reduction of potential exposure to residual hazardous substances by the selected remedy. Where the residual hazardous substances are to be capped to reduce exposure, consideration shall be given to the thickness of the cap and the likelihood of future site maintenance activities, utility and drainage work, or building construction reexposing residual hazardous substances;

(C) The potential for transport of residual hazardous substances to off-property areas, especially residential areas, schools and childcare facilities;

(D) The potential for significant adverse effects on wildlife caused by residual hazardous substances using the procedures in WAC 173-340-7490 through 173-340-7494; and

(E) The likelihood that these factors would not change for the foreseeable future.

(b) **Expectations.** In applying the criteria in (a) of this subsection, the department expects the following results:

(i) The department expects that properties zoned for heavy industrial or high intensity industrial use and located within a city or county that has completed a comprehensive plan and adopted implementing zoning regulations under the Growth Management Act (chapter 36.70A RCW) will meet the definition of industrial property. For cities and counties not planning under the Growth Management Act, the department expects that spot zoned industrial properties will not meet the definition of industrial property but that properties that are part of a larger area zoned for heavy industrial or high intensity industrial use will meet the definition of an industrial property;

(ii) For both GMA and non-GMA cities and counties, the department expects that light industrial and commercial zones and uses should meet the definition of industrial property where the land uses are comparable to those cited in the definition of industrial property or the land uses are an integral part of a qualifying industrial use (such as, ancillary or support facilities). This will require a site-by-site evaluation of the zoning text and land uses;

(iii) The department expects that for portions of industrial properties in close proximity to (generally, within a few hundred feet) residential areas, schools or childcare facilities, residential soil cleanup levels will be used unless:

(A) Access to the industrial property is very unlikely or, the hazardous substances that are not treated or removed are contained under a cap of clean soil (or other materials) of substantial thickness so that it is very unlikely the hazardous substances would be disturbed by future site maintenance and construction activities (depths of even shallow footings, utilities and drainage structures in industrial areas are typically three to six feet); and

(B) The hazardous substances are relatively immobile (or have other characteristics) or have been otherwise contained so that subsurface lateral migration or surficial transport via dust or runoff to these nearby areas or facilities is highly unlikely; and

(iv) Note that a change in the reasonable maximum exposure to industrial site use primarily affects the direct contact exposure pathway. Thus, for example, for sites where the soil cleanup level is based primarily on the potential for the hazardous substance to leach and cause ground water contamination, it is the department's expectation that an industrial land use will not affect the soil cleanup level. Similarly, where the soil cleanup level is based primarily on surface water protection or other pathways other than direct human contact, land use is not expected to affect the soil cleanup level.

(2) **General considerations.**

(a) In the event of a release of a hazardous substance at a site qualifying as industrial property, a cleanup action that complies with this chapter shall be conducted to address those soils with hazardous substance concentrations which exceed industrial soil cleanup levels at the relevant point of compliance.

(b) Soil cleanup levels for areas beyond the industrial property boundary that do not qualify for industrial soil cleanup levels under this section (including implementation of institutional controls and a covenant restricting use of the

property to industrial property uses) shall be established in accordance with WAC 173-340-740.

(c) Industrial soil cleanup levels shall be established at concentrations that do not directly or indirectly cause violations of ground water, surface water, sediment or air cleanup standards established under this chapter or under applicable state and federal laws. A property that qualifies for an industrial soil cleanup level under this section does not necessarily qualify for a Method C cleanup level in other media. Each medium must be evaluated separately using the criteria applicable to that medium.

(d) The department may require more stringent soil cleanup standards than required by this section when, based on a site-specific evaluation, the department determines that this is necessary to protect human health and the environment, including consideration of the factors in WAC 173-340-740 (1)(c). Any imposition of more stringent requirements under this provision shall comply with WAC 173-340-702 and 173-340-708.

(3) **Method A industrial soil cleanup levels.**

(a) **Applicability.** Method A industrial soil cleanup levels may be used only at any industrial property qualifying under WAC 173-340-704(1).

(b) **General requirements.** Method A industrial soil cleanup levels shall be at least as stringent as all of the following:

(i) Concentrations in Table 745-1 and compliance with the corresponding footnotes;

(ii) Concentrations established under applicable state and federal laws;

(iii) Concentrations that result in no significant adverse effects on the protection and propagation of terrestrial ecological receptors using the procedures specified in WAC 173-340-7490 through 173-340-7493, unless it is demonstrated under those sections that establishing a soil concentration is unnecessary; and

(iv) For a hazardous substance that is deemed an indicator hazardous substance under WAC 173-340-708(2) and for which there is no value in Table 745-1 or applicable state and federal laws, a concentration that does not exceed the natural background concentration or the practical quantification limit, subject to the limitations in this chapter.

(4) **Method B industrial soil cleanup levels.** This section does not provide procedures for establishing Method B industrial soil cleanup levels. Method C is the standard method for establishing soil cleanup levels at industrial sites and its use is conditioned upon the continued use of the site for industrial purposes. The person conducting the cleanup action also has the option of establishing unrestricted land use soil cleanup levels under WAC 173-340-740 for qualifying industrial properties. This option may be desirable when the person wants to avoid restrictions on the future use of the property. When a site does not qualify for a Method A or Method C industrial soil cleanup level under this section, or the user chooses to establish unrestricted land use soil cleanup levels at a site, soil cleanup levels must be established using Methods A or B under WAC 173-340-740.

(5) **Method C industrial soil cleanup levels.**

(a) **Applicability.** Method C industrial soil cleanup levels consist of standard and modified cleanup levels as described in this subsection. Either standard or modified Method C soil cleanup levels may be used at any industrial property qualifying under subsection (1) of this section.

(b) **Standard Method C industrial soil cleanup levels.** Standard Method C industrial soil cleanup levels for industrial properties shall be at least as stringent as all of the following:

(i) **Applicable state and federal laws.** Concentrations established under applicable state and federal laws;

(ii) **Environmental protection.** Concentrations that result in no significant adverse effects on the protection and propagation of wildlife established using the procedures specified in WAC 173-340-7490 through 173-340-7494, unless it is demonstrated under those sections that establishing a soil concentration is unnecessary.

(iii) **Human health protection.** For hazardous substances for which sufficiently protective, health-based criteria or standards have not been established under applicable state and federal laws, those concentrations that protect human health as determined by evaluating the following exposure pathways:

(A) **Ground water protection.** Concentrations that will not cause contamination of ground water to concentrations which exceed ground water cleanup levels established under WAC 173-340-720 as determined using the methods described in WAC 173-340-747.

(B) **Soil direct contact.** Concentrations that, due to direct contact with contaminated soil, are estimated to result in no acute or chronic noncarcinogenic toxic effects on human health using a hazardous quotient of one (1) and concentrations for which the upper bound on the estimated excess cancer risk is less than or equal to one in one hundred thousand (1×10^{-5}). Equations 745-1 and 745-2 and the associated default assumptions shall be used to conduct this calculation.

(I) **Noncarcinogens.** For noncarcinogenic toxic effects of hazardous substances due to soil ingestion, concentrations shall be determined using Equation 745-1. For petroleum mixtures and components of such mixtures, see (b)(iii)(B)(III) of this subsection.

[Equation 745-1]

$$\text{Soil Cleanup Level (mg/kg)} = \frac{\text{RfD x ABW x UCF x HQ x AT}}{\text{SIR x AB1 x EF x ED}}$$

Where:

RfD	=	Reference dose as specified in WAC 173-340-708(7) (mg/kg-day)
ABW	=	Average body weight over the exposure duration (70 kg)
UCF	=	Unit conversion factor (1,000,000 mg/kg)
SIR	=	Soil ingestion rate (50 mg/day)
AB1	=	Gastrointestinal absorption fraction (1.0) (unitless)
EF	=	Exposure frequency (0.4) (unitless)
HQ	=	Hazard quotient (1) (unitless)
AT	=	Averaging time (20 years)
ED	=	Exposure duration (20 years)

(II) **Carcinogens.** For carcinogenic effects of hazardous substances due to soil ingestion, concentrations shall be determined using Equation 745-2. For petroleum mixtures and components of such mixtures, see (b)(iii)(B)(III) of this subsection.

[Equation 745-2]

$$\text{Soil Cleanup Level (mg/kg)} = \frac{\text{RISK x ABW x AT x UCF}}{\text{CPF x SIR x AB1 x ED x EF}}$$

Where:

RISK	=	Acceptable cancer risk level (1 in 100,000) (unitless)
ABW	=	Average body weight over the exposure duration (70 kg)
AT	=	Averaging time (75 years)
UCF	=	Unit conversion factor (1,000,000 mg/kg)
CPF	=	Carcinogenic Potency Factor as specified in WAC 173-340-708(8) (kg-day/mg)
SIR	=	Soil ingestion rate (50 mg/day)
AB1	=	Gastrointestinal absorption fraction (1.0) (unitless). May use 0.6 for mixtures of dioxins and/or furans
ED	=	Exposure duration (20 years)
EF	=	Exposure frequency (0.4) (unitless)

(III) **Petroleum mixtures.** For noncarcinogenic effects of petroleum mixtures, a total petroleum hydrocarbon cleanup level shall be calculated taking into account the additive effects of the petroleum fractions and volatile organic compounds present in the petroleum mixture. Equation 745-3 shall be used for this calculation. This equation takes into account concurrent exposure due to ingestion and dermal contact with petroleum contaminated soils. Cleanup levels for other noncarcinogens and known or suspected carcinogens within the petroleum mixture shall be calculated using Equations 745-4 and 745-5. See Table 830-1 for the analyses required for various petroleum products to use this method.

[Equation 745-3]

$$C_{soil} = \frac{HI \times ABW \times AT}{EF \times ED \left[\left(\frac{SIR \times AB1}{10^6 mg/kg} \sum_{i=1}^{n} \frac{F(i)}{RfDo(i)} \right) + \left(\frac{SA \times AF}{10^6 mg/kg} \sum_{i=1}^{n} \frac{F(i) \times ABS(i)}{RfDd(i)} \right) \right]}$$

Where:

C_{soil}	=	TPH soil cleanup level (mg/kg)
HI	=	Hazard index (1) (unitless)
ABW	=	Average body weight over the exposure duration (70 kg)
AT	=	Averaging time (20 years)
EF	=	Exposure frequency (0.7) (unitless)
ED	=	Exposure duration (20 years)
SIR	=	Soil ingestion rate (50 mg/day)
AB1	=	Gastrointestinal absorption fraction (1.0) (unitless)
F(i)	=	Fraction (by weight) of petroleum component (i) (unitless)
SA	=	Dermal surface area (2,500 cm^2)
AF	=	Adherence factor (0.2 mg/cm^2-day)
ABS	=	Dermal absorption fraction for petroleum component (i) (unitless). May use chemical-specific values or the following defaults: • 0.0005 for volatile petroleum components with vapor press > = benzene • 0.03 for volatile petroleum components with vapor press < benzene • 0.1 for other petroleum components
RfDo(i)	=	Oral reference dose of petroleum component (i) as defined in WAC 173-340-708(7) (mg/kg-day)
RfDd(i)	=	Dermal reference dose for petroleum component (i) (mg/kg-day) derived by RfDo x GI
GI	=	Gastrointestinal absorption conversion factor (unitless). May use chemical-specific values or the following defaults: • 0.8 for volatile petroleum components • 0.5 for other petroleum components
n	=	The number of petroleum components (petroleum fractions plus volatile organic compounds with an RfD) present in the petroleum mixture. (See Table 830-1.)

(C) **Soil vapors.** The soil to vapor pathway shall be evaluated for volatile organic compounds whenever any of the following conditions exist:

(I) For gasoline range organics, whenever the total petroleum hydrocarbon (TPH) concentration is significantly higher than a concentration derived for protection of ground water for drinking water beneficial use under WAC 173-340-747(6) using the default assumptions;

(II) For diesel range organics, whenever the total petroleum hydrocarbon (TPH) concentration is greater than 10,000 mg/kg;

(III) For other volatile organic compounds, including petroleum components, whenever the concentration is significantly higher than a concentration derived for protection of ground water for drinking water beneficial use under WAC 173-340-747(4).

See subsection (5)(c)(iv)(B) of this section for methods that may be used to evaluate the soil to vapor pathway.

(c) **Modified Method C soil cleanup levels.**

(i) **General.** Modified Method C soil cleanup levels are standard Method C soil cleanup levels modified with chemical-specific or site-specific data. When making these adjustments, the resultant cleanup levels shall meet applicable state and federal laws, meet health risk levels for standard Method C soil cleanup levels, and be demonstrated to be environmentally protective using the procedures specified in WAC 173-340-7490 through 173-340-7494. Changes to exposure assumptions must comply with WAC 173-340-708(10).

(ii) **Allowable modifications.** The following modifications may be made to the default assumptions in the standard Method C equations to derive modified Method C soil cleanup levels:

(A) For the protection of ground water see WAC 173-340-747;

(B) For soil ingestion, the gastrointestinal absorption fraction may be modified if the requirements of WAC 173-340-702 (14), (15), (16), and 173-340-708(10) are met;

(C) For dermal contact, the adherence factor, dermal absorption fraction and gastrointestinal absorption conversion factor may be modified if the requirements of WAC 173-340-702 (14), (15), (16), and 173-340-708(10) are met;

(D) The toxicity equivalent factors provided in WAC 173-340-708 (8)(d), (e) and (f), may be modified provided the requirements of WAC 173-340-708 (8)(g) and (h) are met;

(E) The reference dose and cancer potency factor may be modified if the requirements in WAC 173-340-708 (7) and (8) are met; and

(F) Modifications incorporating new science as provided for in WAC 173-340-702 (14), (15) and (16).

(iii) **Dermal contact.** For hazardous substances other than petroleum mixtures, dermal contact with the soil shall be evaluated whenever the proposed changes to Equations 745-1 and 745-2 would result in a significantly higher soil cleanup level than would be calculated without the proposed changes. When conducting this evaluation, the following equations and default assumptions shall be used:

(A) For noncarcinogens use Equation 745-4. This equation takes into account concurrent exposure due to ingestion and dermal contact with soil.

[Equation 745-4]

$$C_{soil} = \frac{HQ \times ABW \times AT}{EF \times ED \left[\left(\frac{1}{RfDo} \times \frac{SIR \times AB1}{10^6 mg/kg}\right) + \left(\frac{1}{RfDd} \times \frac{SA \times AF \times ABS}{10^6 mg/kg}\right)\right]}$$

Where:

C_{soil} = Soil cleanup level (mg/kg)
HQ = Hazard quotient (unitless)
ABW = Average body weight over the exposure duration (70 kg)
AT = Averaging time (20 years)
EF = Exposure frequency (0.7) (unitless)
ED = Exposure duration (20 years)
SIR = Soil ingestion rate (50 mg/day)
AB1 = Gastrointestinal absorption fraction (1.0) (unitless)
SA = Dermal surface area (2,500 mg/cm^2)
AF = Adherence factor (0.2 mg/cm^2-day)
ABS = Dermal absorption fraction (unitless). May use chemical-specific values or the following defaults:
- 0.01 for inorganic hazardous substances
- 0.0005 for volatile organic compounds with vapor press >= benzene
- 0.03 for volatile organic compounds with vapor press < benzene
- 0.1 for other organic hazardous substances

RfDo = Oral reference dose as defined in WAC 173-340-708(7) (mg/kg-day)
RfDd = Dermal reference dose (mg/kg-day) derived by RfDo x GI
GI = Gastrointestinal absorption conversion factor (unitless). May use chemical-specific values or the following defaults:
- 0.2 for inorganic hazardous substances
- 0.8 for volatile organic compounds
- 0.5 for other organic hazardous substances

(B) For carcinogens use Equation 745-5. This equation takes into account concurrent exposure due to ingestion and dermal contact with soil.

[Equation 745-5]

$$C_{soil} = \frac{RISK \times ABW \times AT}{EF \times ED \left[\left(\frac{SIR \times AB1 \times CPFo}{10^6 mg/kg}\right) + \left(\frac{SA \times AF \times ABS \times CPFd}{10^6 mg/kg}\right)\right]}$$

Where:

C_{soil} = Soil cleanup level (mg/kg)
RISK = Acceptable cancer risk (1 in 100,000) (unitless)
ABW = Average body weight over the exposure duration (70 kg)
AT = Averaging time (75 years)
EF = Exposure frequency (0.7) (unitless)
ED = Exposure duration (20 years)
SIR = Soil ingestion rate (50 mg/day)
AB1 = Gastrointestinal absorption fraction (1.0) (unitless). May use 0.6 for mixtures of dioxins and/or furans
CPFo = Oral cancer potency factor as defined in WAC 173-340-708(8) (kg-day/mg)
CPFd = Dermal cancer potency factor (kg-day/mg) derived by CPFo/GI
GI = Gastrointestinal absorption conversion factor (unitless). May use chemical-specific values or the following defaults:
- 0.2 for inorganic hazardous substances
- 0.8 for volatile organic compounds and mixtures of dioxins and/or furans
- 0.5 for other organic hazardous substances

SA = Dermal surface area (2,500 cm^2)
AF = Adherence factor (0.2 mg/cm^2-day)
ABS = Dermal absorption fraction (unitless). May use chemical-specific values or the following defaults:
- 0.01 for inorganic hazardous substances
- 0.0005 for volatile organic compounds with vapor press >= benzene
- 0.03 for volatile organic compounds substances with vapor press < benzene and for mixtures of dioxins and/or furans
- 0.1 for other organic hazardous substances

(C) Modifications may be made to Equations 745-4 and 745-5 as provided for in subsection (5)(c)(ii) of this section.

(iv) **Soil vapors.**

(A) **Applicability.** The soil to vapor pathway shall be evaluated for volatile organic compounds whenever any of the following conditions exist:

(I) For other than petroleum hydrocarbon mixtures, the proposed changes to the standard Method C equations (Equations 745-1 and 745-2) or default values would result in a significantly higher soil cleanup level than would be calculated without the proposed changes;

(II) For petroleum hydrocarbon mixtures, the proposed changes to the standard Method C equations (Equations 745-3, 745-4 and 745-5) or default values would result in a significantly higher soil cleanup level than would be calculated without the proposed changes;

(III) For gasoline range organics, whenever the total petroleum hydrocarbon (TPH) concentration is significantly higher than a concentration derived for protection of ground water for drinking water beneficial use under WAC 173-340-747(6) using the default assumptions;

(IV) For diesel range organics, whenever the total petroleum hydrocarbon (TPH) concentration is greater than 10,000 mg/kg;

(V) For other volatile organic compounds, including petroleum components, whenever the concentration is significantly higher than a concentration derived for protection of ground water for drinking water beneficial use under WAC 173-340-747(4).

(B) **Evaluation methods.** Soil cleanup levels that are protective of the indoor and ambient air shall be determined on a site-specific basis. Soil cleanup levels may be evaluated as being protective of air pathways using any of the following methods:

(I) Measurements of the soil vapor concentrations, using methods approved by the department, demonstrating vapors in the soil would not exceed air cleanup levels established under WAC 173-340-750.

(II) Measurements of ambient air concentrations and/or indoor air vapor concentrations throughout buildings, using methods approved by the department, demonstrating air does not exceed cleanup levels established under WAC 173-340-750. Such measurements must be representative of current and future site conditions when vapors are likely to enter and accumulate in structures. Measurement of ambient air may be excluded if it can be shown that indoor air is the most protective point of exposure.

(III) Use of modeling methods approved by the department to demonstrate the air cleanup standards established

under WAC 173-340-750 will not be exceeded. When this method is used, the department may require soil vapor and/or air monitoring to be conducted to verify the calculations and compliance with air cleanup standards.

(IV) Other methods as approved by the department demonstrating the air cleanup standards established under WAC 173-340-750 will not be exceeded.

(d) **Using modified Method C to evaluate industrial soil remediation levels.** In addition to the adjustments allowed under subsection (5)(c) of this section, other adjustments to the reasonable maximum exposure scenario or default exposure assumptions are allowed when using a quantitative site-specific risk assessment to evaluate the protectiveness of a remedy. See WAC 173-340-355, 173-340-357, and 173-340-708 (3)(d) and (10)(b).

(6) **Adjustments to industrial soil cleanup levels.**

(a) **Total site risk adjustments.** Soil cleanup levels for individual hazardous substances developed in accordance with subsection (5) of this section, including cleanup levels based on state and federal laws, shall be adjusted downward to take into account exposure to multiple hazardous substances and/or exposure resulting from more than one pathway of exposure. These adjustments need to be made only if, without these adjustments, the hazard index would exceed one (1) or the total excess cancer risk would exceed one in one hundred thousand (1×10^{-5}). These adjustments shall be made in accordance with the procedures specified in WAC 173-340-708 (5) and (6). In making these adjustments, the hazard index shall not exceed one (1) and the total excess cancer risk shall not exceed one in one hundred thousand (1×10^{-5}).

(b) **Adjustments to applicable state and federal laws.** Where a cleanup level developed under subsection (3) or (5) of this section is based on an applicable state or federal law and the level of risk upon which the standard is based exceeds an excess cancer risk of one in one hundred thousand (1×10^{-5}) or a hazard index of one (1), the cleanup level shall be adjusted downward so that total excess cancer risk does not exceed one in one hundred thousand (1×10^{-5}) and the hazard index does not exceed one (1) at the site.

(c) **Natural background and analytical considerations.** Cleanup levels determined under subsection (3) or (5) of this section, including cleanup levels adjusted under subsection (6)(a) and (b) of this section, shall not be set at levels below the practical quantitation limit or natural background concentration, whichever is higher. See WAC 173-340-707 and 173-340-709 for additional requirements pertaining to practical quantitation limits and natural background.

(7) **Point of compliance.** The point of compliance for industrial property soil cleanup levels shall be established in accordance with WAC 173-340-740(6).

(8) **Compliance monitoring.** Compliance monitoring and data analysis and evaluation for industrial property soil cleanup levels shall be performed in accordance with WAC 173-340-410 and 173-340-740(7).

[Statutory Authority: RCW 70.105D.030(2). 07-21-065 (Order 06-10), § 173-340-745, filed 10/12/07, effective 11/12/07. Statutory Authority: Chapter 70.105D RCW. 01-05-024 (Order 97-09A), § 173-340-745, filed 2/12/01, effective 8/15/01; 96-04-010 (Order 94-37), § 173-340-745, filed 1/26/96, effective 2/26/96; 91-04-019, § 173-340-745, filed 1/28/91, effective 2/28/91.]

Reviser's note: The brackets and enclosed material in the text of the above section occurred in the copy filed by the agency.

WAC 173-340-900 Tables.

Table 708-1: Toxicity Equivalency Factors for Chlorinated dibenzo-p-dioxins and Chlorinated Dibenzofurans Congeners

CAS Number	Hazardous Substance	Toxicity Equivalency Factor (unitless)[1]
	Dioxin Congeners	
1746-01-6	2,3,7,8-Tetrachloro dibenzo-p-dioxin	1
40321-76-4	1,2,3,7,8-Pentachloro dibenzo-p-dioxin	1
39227-28-6	1,2,3,4,7,8-Hexachloro dibenzo-p-dioxin	0.1
57653-85-7	1,2,3,6,7,8-Hexachloro dibenzo-p-dioxin	0.1
19408-74-3	1,2,3,7,8,9-Hexachloro dibenzo-p-dioxin	0.1
35822-46-9	1,2,3,4,6,7,8-Heptachloro dibenzo-p-dioxin	0.01
3268-87-9	1,2,3,4,6,7,8,9-Octachloro dibenzo-p-dioxin	0.0003
	Furan Congeners	
51207-31-9	2,3,7,8-Tetrachloro dibenzofuran	0.1
57117-41-6	1,2,3,7,8-Pentachloro dibenzofuran	0.03
57117-31-4	2,3,4,7,8-Pentachloro dibenzofuran	0.3
70648-26-9	1,2,3,4,7,8-Hexachloro dibenzofuran	0.1
57117-44-9	1,2,3,6,7,8-Hexachloro dibenzofuran	0.1
72918-21-9	1,2,3,7,8,9-Hexachloro dibenzofuran	0.1
60851-34-5	2,3,4,6,7,8-Hexachloro dibenzofuran	0.1
67562-39-4	1,2,3,4,6,7,8-Heptachloro dibenzofuran	0.01
55673-89-7	1,2,3,4,7,8,9-Heptachloro dibenzofuran	0.01
39001-02-0	1,2,3,4,6,7,8,9-Octachloro dibenzofuran	0.0003

[1] Source: Van den Berg et al. 2006. The 2005 World Health Organization Re-evaluation of Human and Mammalian Toxic Equivalency Factors for Dioxins and Dioxin-like Compounds.
Toxicological Sciences 2006 93(2):223-241; doi:10.1093/toxsci/kfl055.

Table 708-2: Toxicity Equivalency Factors for Minimum Required Carcinogenic Polyaromatic Hydrocarbons (cPAHs) under WAC 173-340-708(e)

CAS Number	Hazardous Substance	TEF (unitless)[1]
50-32-08	benzo[a]pyrene	1
56-55-3	benzo[a]anthracene	0.1
205-99-2	benzo[b]fluoranthene	0.1
207-08-9	benzo[k]fluoranthene	0.1
218-01-9	chrysene	0.01
53-70-3	dibenz[a, h]anthracene	0.1
193-39-5	indeno[1,2,3-cd]pyrene	0.1

[1]Source: Cal-EPA, 2005. Air Toxics Hot Spots Program Risk Assessment Guidelines, Part II Technical Support Document for Describing Available Cancer Potency Factors. Office of Environmental Health Hazard Assessment, California Environmental Protection Agency. May 2005.

Table 708-3: Toxicity Equivalency Factors for Carcinogenic Polyaromatic Hydrocarbons (cPAHs) that May be Required under WAC 173-340-708 (8)(e)(v)

CAS Number	Hazardous Substance	TEF (unitless)[1]
205-82-3	benzo(j)fluoranthene	0.1
224-42-0	dibenz[a, j]acridine	0.1
226-36-8	dibenz[a, h]acridine	0.1
194-59-2	7H-dibenzo[c, g]carbazole	1
192-65-4	dibenzo[a, e]pyrene	1
189-64-0	dibenzo[a, h]pyrene	10
189-55-9	dibenzo[a, i]pyrene	10
191-30-0	dibenzo[a, l]pyrene	10
3351-31-3	5-methylchrysene	1
5522-43-0	1-nitropyrene	0.1
57835-92-4	4-nitropyrene	0.1
42397-64-8	1,6-dinitropyrene	10
42397-65-9	1,8-dinitropyrene	1
7496-02-8	6-nitrochrysene	10
607-57-8	2-nitrofluorene	0.01
57-97-6	7,12-dimethylbenzanthracene	10
56-49-5	3-methylcholanthrene	1
602-87-9	5-nitroacenaphthene	0.01

[1]Source: Cal-EPA, 2005. Air Toxics Hot Spots Program Risk Assessment Guidelines, Part II Technical Support Document for Describing Available Cancer Potency Factors. Office of Environmental Health Hazard Assessment, California Environmental Protection Agency. May 2005.

Table 708-4: Toxicity Equivalency Factors for Dioxin-Like Polychlorinated Biphenyls (PCBs)

CAS Number	Hazardous Substance	TEF (unitless)[1]
	Dioxin-Like PCBs	
32598-13-3	3,3',4,4'-Tetrachlorobiphenyl (PCB 77)	0.0001
70362-50-4	3,4,4',5- Tetrachlorobiphenyl (PCB 81)	0.0003
32598-14-4	2,3,3',4,4'-Pentachlorobiphenyl (PCB 105)	0.00003
74472-37-0	2,3,4,4',5-Pentachlorobiphenyl (PCB 114)	0.00003
31508-00-6	2,3',4,4',5-Pentachlorobiphenyl (PCB 118)	0.00003
65510-44-3	2',3,4,4',5-Pentachlorobiphenyl (PCB 123)	0.00003
57465-28-8	3,3',4,4',5-Pentachlorobiphenyl (PCB 126)	0.1
38380-08-4	2,3,3',4,4',5-Hexachlorobiphenyl (PCB 156)	0.00003
69782-90-7	2,3,3',4,4',5'-Hexachlorobiphenyl (PCB 157)	0.00003
52663-72-6	2,3',4,4',5,5'-Hexachlorobiphenyl (PCB 167)	0.00003
32774-16-6	3,3',4,4',5,5'-Hexachlorobiphenyl (PCB 169)	0.03
39635-31-9	2,3,3',4,4',5,5'-Heptachlorobiphenyl (PCB 189)	0.00003

[1]Source: Van den Berg et al. 2006. The 2005 World Health Organization Re-evaluation of Human and Mammalian Toxic Equivalency Factors for Dioxins and Dioxin-like Compounds. Toxicological Sciences 2006 93(2):223-241; doi:10.1093/toxsci/kfl055.

Table 720-1 Method A Cleanup Levels for Ground Water.[a]

Hazardous Substance	CAS Number	Cleanup Level
Arsenic	7440-38-2	5 ug/liter[b]
Benzene	71-43-2	5 ug/liter[c]
Benzo(a)pyrene	50-32-8	0.1 ug/liter[d]
Cadmium	7440-43-9	5 ug/liter[e]
Chromium (Total)	7440-47-3	50 ug/liter[f]
DDT	50-29-3	0.3 ug/liter[g]
1,2 Dichloroethane (EDC)	107-06-2	5 ug/liter[h]
Ethylbenzene	100-41-4	700 ug/liter[i]
Ethylene dibromide (EDB)	106-93-4	0.01 ug/liter[j]
Gross Alpha Particle Activity		15 pCi/liter[k]
Gross Beta Particle Activity		4 mrem/yr[l]
Lead	7439-92-1	15 ug/liter[m]
Lindane	58-89-9	0.2 ug/liter[n]
Methylene chloride	75-09-2	5 ug/liter[o]
Mercury	7439-97-6	2 ug/liter[p]
MTBE	1634-04-4	20 ug/liter[q]
Naphthalenes	91-20-3	160 ug/liter[r]
PAHs (carcinogenic)		See benzo(a)pyrene[d]
PCB mixtures		0.1 ug/liter[s]
Radium 226 and 228		5 pCi/liter[t]
Radium 226		3 pCi/liter[u]
Tetrachloroethylene	127-18-4	5 ug/liter[v]
Toluene	108-88-3	1,000 ug/liter[w]
Total Petroleum Hydrocarbons[x]		
[Note: Must also test for and meet cleanup levels for other petroleum components—see footnotes!]		
Gasoline Range Organics		
Benzene present in ground water		800 ug/liter
No detectable benzene in ground water		1,000 ug/liter
Diesel Range Organics		500 ug/liter
Heavy Oils		500 ug/liter
Mineral Oil		500 ug/liter
1,1,1 Trichloroethane	71-55-6	200 ug/liter[y]
Trichloroethylene	79-01-6	5 ug/liter[z]
Vinyl chloride	75-01-4	0.2 ug/liter[aa]
Xylenes	1330-20-7	1,000 ug/liter[bb]

Footnotes:

a **Caution on misusing this table.** This table has been developed for specific purposes. It is intended to provide conservative cleanup levels for drinking water beneficial uses at sites undergoing routine cleanup actions or those sites with relatively few hazardous substances. This table may not be appropriate for defining cleanup levels at other sites. For these reasons, the values in this table should not automatically be used to define cleanup levels that must be met for financial, real estate, insurance coverage or placement, or similar transactions or purposes. Exceedances of the values in this table do not necessarily mean the ground water must be restored to those levels at all sites. The level of restoration depends on the remedy selected under WAC 173-340-350 through 173-340-390.

b **Arsenic.** Cleanup level based on background concentrations for state of Washington.

c **Benzene.** Cleanup level based on applicable state and federal law (WAC 246-290-310 and 40 C.F.R. 141.61).

d **Benzo(a)pyrene.** Cleanup level based on applicable state and federal law (WAC 246-290-310 and 40 C.F.R. 141.61), adjusted to a 1 x 10^{-5} risk. If other carcinogenic PAHs are suspected of being present at the site, test for them and use this value as the total concentration that all carcinogenic PAHs must meet using the toxicity equivalency methodology in WAC 173-340-708(8).

e **Cadmium.** Cleanup level based on applicable state and federal law (WAC 246-290-310 and 40 C.F.R. 141.62).

f **Chromium (Total).** Cleanup level based on concentration derived using Equation 720-1 for hexavalent chromium. This is a total value for chromium III and chromium VI. If just chromium III is present at the site, a cleanup level of 100 ug/l may be used (based on WAC 246-290-310 and 40 C.F.R. 141.62).

g **DDT (dichlorodiphenyltrichloroethane).** Cleanup levels based on concentration derived using Equation 720-2.

h **1,2 Dichloroethane (ethylene dichloride or EDC).** Cleanup level based on applicable state and federal law (WAC 246-290-310 and 40 C.F.R. 141.61).

i **Ethylbenzene.** Cleanup level based on applicable state and federal law (WAC 246-290-310 and 40 C.F.R. 141.61).

j **Ethylene dibromide (1,2 dibromoethane or EDB).** Cleanup level based on concentration derived using Equation 720-2, adjusted for the practical quantitation limit.

k **Gross Alpha Particle Activity, excluding uranium.** Cleanup level based on applicable state and federal law (WAC 246-290-310 and 40 C.F.R. 141.15).

l **Gross Beta Particle Activity, including gamma activity.** Cleanup level based on applicable state and federal law (WAC 246-290-310 and 40 C.F.R. 141.15).

m **Lead.** Cleanup level based on applicable state and federal law (40 C.F.R. 141.80).

n **Lindane.** Cleanup level based on applicable state and federal law (WAC 246-290-310 and 40 C.F.R. 141.61).

o **Methylene chloride (dichloromethane).** Cleanup level based on applicable state and federal law (WAC 246-290-310 and 40 C.F.R. 141.61).

p **Mercury.** Cleanup level based on applicable state and federal law (WAC 246-290-310 and 40 C.F.R. 141.62).

q **Methyl tertiary-butyl ether (MTBE).** Cleanup level based on federal drinking water advisory level (EPA-822-F-97-009, December 1997).

r **Naphthalenes.** Cleanup level based on concentration derived using Equation 720-1. This is a total value for naphthalene, 1-methyl naphthalene and 2-methyl naphthalene.

s **PCB mixtures.** Cleanup level based on concentration derived using Equation 720-2, adjusted for the practical quantitation limit. This cleanup level is a total value for all PCBs.

t **Radium 226 and 228.** Cleanup level based on applicable state and federal law (WAC 246-290-310 and 40 C.F.R. 141.15).

u **Radium 226.** Cleanup level based on applicable state law (WAC 246-290-310).

v **Tetrachloroethylene.** Cleanup level based on applicable state and federal law (WAC 246-290-310 and 40 C.F.R. 141.61).

w **Toluene.** Cleanup level based on applicable state and federal law (WAC 246-290-310 and 40 C.F.R. 141.61).

x **Total Petroleum Hydrocarbons (TPH).** TPH cleanup values have been provided for the most common petroleum products encountered at contaminated sites. Where there is a mixture of products or the product composition is unknown, samples must be tested using both the NWTPH-Gx and NWTPH-Dx methods and the lowest applicable TPH cleanup level must be met.

- **Gasoline range organics** means organic compounds measured using method NWTPH-Gx. Examples are aviation and automotive gasoline. The cleanup level is based on protection of ground water for noncarcinogenic effects during drinking water use. Two cleanup levels are provided. The higher value is based on the assumption that no benzene is present in the ground water sample. If any detectable amount of benzene is present in the ground water sample, then the lower TPH cleanup level must be used. No interpolation between these cleanup levels is allowed. The ground water cleanup level for any carcinogenic components of the petroleum [such as benzene, EDB and EDC] and any noncarcinogenic components [such as ethylbenzene, toluene, xylenes and MTBE], if present at the site, must also be met. See Table 830-1 for the minimum testing requirements for gasoline releases.
- **Diesel range organics** means organic compounds measured using NWTPH-Dx. Examples are diesel, kerosene, and #1 and #2 heating oil. The cleanup level is based on protection from noncarcinogenic effects during drinking water use. The ground water cleanup level for any carcinogenic components of the petroleum [such as benzene and PAHs] and any noncarcinogenic components [such as ethylbenzene, toluene, xylenes and naphthalenes], if present at the site, must also be met. See Table 830-1 for the minimum testing requirements for diesel releases.
- **Heavy oils** means organic compounds measured using NWTPH-Dx. Examples are #6 fuel oil, bunker C oil, hydraulic oil and waste oil. The cleanup level is based on protection from noncarcinogenic effects during drinking water use, assuming a product composition similar to diesel fuel. The ground water cleanup level for any carcinogenic components of the petroleum [such as benzene, PAHs and PCBs] and any noncarcinogenic components [such as ethylbenzene, toluene, xylenes and naphthalenes], if present at the site, must also be met. See Table 830-1 for the minimum testing requirements for heavy oil releases.
- **Mineral oil** means non-PCB mineral oil, typically used as an insulator and coolant in electrical devices such as transformers and capacitors measured using NWTPH-Dx. The cleanup level is based on protection from noncarcinogenic effects during drinking water use. Sites using this cleanup level must analyze ground water samples for PCBs and meet the PCB cleanup level in this table unless it can be demonstrated that: (1) The release originated from an electrical device manufactured after July 1, 1979; or (2) oil containing PCBs was never used in the equipment suspected as the source of the release; or (3) it can be documented that the oil released was recently tested and did not contain PCBs. Method B (or Method C, if applicable) must be used for releases of oils containing greater than 50 ppm PCBs. See Table 830-1 for the minimum testing requirements for mineral oil releases.

y **1,1,1 Trichloroethane.** Cleanup level based on applicable state and federal law (WAC 246-290-310 and 40 C.F.R. 141.61).

z **Trichloroethylene.** Cleanup level based on applicable state and federal law (WAC 246-290-310 and 40 C.F.R. 141.61).

aa **Vinyl chloride.** Cleanup level based on applicable state and federal law (WAC 246-290-310 and 40 C.F.R. 141.61), adjusted to a 1 x 10^{-5} risk.

bb **Xylenes.** Cleanup level based on xylene not exceeding the maximum allowed cleanup level in this table for total petroleum hydrocarbons and on prevention of adverse aesthetic characteristics. This is a total value for all xylenes.

Table 740-1
Method A Soil Cleanup Levels for Unrestricted Land Uses.[a]

Hazardous Substance	CAS Number	Cleanup Level
Arsenic	7440-38-2	20 mg/kg[b]
Benzene	71-43-2	0.03 mg/kg[c]
Benzo(a)pyrene	50-32-8	0.1 mg/kg[d]
Cadmium	7440-43-9	2 mg/kg[e]
Chromium		
Chromium VI	18540-29-9	19 mg/kg[f1]
Chromium III	16065-83-1	2,000 mg/kg[f2]
DDT	50-29-3	3 mg/kg[g]
Ethylbenzene	100-41-4	6 mg/kg[h]
Ethylene dibromide (EDB)	106-93-4	0.005 mg/kg[i]
Lead	7439-92-1	250 mg/kg[j]
Lindane	58-89-9	0.01 mg/kg[k]
Methylene chloride	75-09-2	0.02 mg/kg[l]
Mercury (inorganic)	7439-97-6	2 mg/kg[m]
MTBE	1634-04-4	0.1 mg/kg[n]
Naphthalenes	91-20-3	5 mg/kg[o]
PAHs (carcinogenic)		See benzo(a)pyrene[d]
PCB Mixtures		1 mg/kg[p]
Tetrachloroethylene	127-18-4	0.05 mg/kg[q]
Toluene	108-88-3	7 mg/kg[r]
Total Petroleum Hydrocarbons[s]		
[Note: Must also test for and meet cleanup levels for other petroleum components—see footnotes!]		
Gasoline Range Organics		
Gasoline mixtures without benzene and the total of ethylbenzene, toluene and xylene are less than 1% of the gasoline mixture		100 mg/kg
All other gasoline mixtures		30 mg/kg
Diesel Range Organics		2,000 mg/kg
Heavy Oils		2,000 mg/kg

Hazardous Substance	CAS Number	Cleanup Level
Mineral Oil		4,000 mg/kg
1,1,1 Trichloroethane	71-55-6	2 mg/kg[t]
Trichloroethylene	79-01-6	0.03 mg/kg[u]
Xylenes	1330-20-7	9 mg/kg[v]

Footnotes:

a **Caution on misusing this table.** This table has been developed for specific purposes. It is intended to provide conservative cleanup levels for sites undergoing routine cleanup actions or for sites with relatively few hazardous substances, and the site qualifies under WAC 173-340-7491 for an exclusion from conducting a simplified or site-specific terrestrial ecological evaluation, or it can be demonstrated using a terrestrial ecological evaluation under WAC 173-340-7492 or 173-340-7493 that the values in this table are ecologically protective for the site. This table may not be appropriate for defining cleanup levels at other sites. For these reasons, the values in this table should not automatically be used to define cleanup levels that must be met for financial, real estate, insurance coverage or placement, or similar transactions or purposes. Exceedances of the values in this table do not necessarily mean the soil must be restored to these levels at a site. The level of restoration depends on the remedy selected under WAC 173-340-350 through 173-340-390.

b **Arsenic.** Cleanup level based on direct contact using Equation 740-2 and protection of ground water for drinking water use using the procedures in WAC 173-340-747(4), adjusted for natural background for soil.

c **Benzene.** Cleanup level based on protection of ground water for drinking water use, using the procedures in WAC 173-340-747 (4) and (6).

d **Benzo(a)pyrene.** Cleanup level based on direct contact using Equation 740-2. If other carcinogenic PAHs are suspected of being present at the site, test for them and use this value as the total concentration that all carcinogenic PAHs must meet using the toxicity equivalency methodology in WAC 173-340-708(8).

e **Cadmium.** Cleanup level based on protection of ground water for drinking water use, using the procedures described in WAC 173-340-747(4), adjusted for the practical quantitation limit for soil.

f1 **Chromium VI.** Cleanup level based on protection of ground water for drinking water use, using the procedures described in WAC 173-340-747(4).

f2 **Chromium III.** Cleanup level based on protection of ground water for drinking water use, using the procedures described in WAC 173-340-747(4). Chromium VI must also be tested for and the cleanup level met when present at a site.

g **DDT (dichlorodiphenyltrichloroethane).** Cleanup level based on direct contact using Equation 740-2.

h **Ethylbenzene.** Cleanup level based on protection of ground water for drinking water use, using the procedures described in WAC 173-340-747(4).

i **Ethylene dibromide (1,2 dibromoethane or EDB).** Cleanup level based on protection of ground water for drinking water use, using the procedures described in WAC 173-340-747(4), adjusted for the practical quantitation limit for soil.

j **Lead.** Cleanup level based on preventing unacceptable blood lead levels.

k **Lindane.** Cleanup level based on protection of ground water for drinking water use, using the procedures described in WAC 173-340-747(4), adjusted for the practical quantitation limit.

l **Methylene chloride (dichloromethane).** Cleanup level based on protection of ground water for drinking water use, using the procedures described in WAC 173-340-747(4).

m **Mercury.** Cleanup level based on protection of ground water for drinking water use, using the procedures described in WAC 173-340-747(4).

n **Methyl tertiary-butyl ether (MTBE).** Cleanup level based on protection of ground water for drinking water use, using the procedures described in WAC 173-340-747(4).

o **Naphthalenes.** Cleanup level based on protection of ground water for drinking water use, using the procedures described in WAC 173-340-747(4). This is a total value for naphthalene, 1-methyl naphthalene and 2-methyl naphthalene.

p **PCB Mixtures.** Cleanup level based on applicable federal law (40 C.F.R. 761.61). This is a total value for all PCBs.

q **Tetrachloroethylene.** Cleanup level based on protection of ground water for drinking water use, using the procedures described in WAC 173-340-747(4).

r **Toluene.** Cleanup level based on protection of ground water for drinking water use, using the procedures described in WAC 173-340-747(4).

s **Total Petroleum Hydrocarbons (TPH).** TPH cleanup values have been provided for the most common petroleum products encountered at contaminated sites. Where there is a mixture of products or the product composition is unknown, samples must be tested using both the NWTPH-Gx and NWTPH-Dx methods and the lowest applicable TPH cleanup level must be met.

- **Gasoline range organics** means organic compounds measured using method NWTPH-Gx. Examples are aviation and automotive gasoline. The cleanup level is based on protection of ground water for noncarcinogenic effects during drinking water use using the procedures described in WAC 173-340-747(6). Two cleanup levels are provided. The lower value of 30 mg/kg can be used at any site. When using this lower value, the soil must also be tested for and meet the benzene soil cleanup level. The higher value of 100 mg/kg can only be used if the soil is tested and found to contain no benzene and the total of ethylbenzene, toluene and xylene are less than 1% of the gasoline mixture. No interpolation between these cleanup levels is allowed. In both cases, the soil cleanup level for any other carcinogenic components of the petroleum [such as EDB and EDC], if present at the site, must also be met. Also, in both cases, soil cleanup levels for any noncarcinogenic components [such as toluene, ethylbenzene, xylenes, naphthalene, and MTBE], also must be met if these substances are found to exceed ground water cleanup levels at the site. See Table 830-1 for the minimum testing requirements for gasoline releases.
- **Diesel range organics** means organic compounds measured using method NWTPH-Dx. Examples are diesel, kerosene, and #1 and #2 heating oil. The cleanup level is based on preventing the accumulation of free product on the ground water, as described in WAC 173-340-747(10). The soil cleanup level for any carcinogenic components of the petroleum [such as benzene and PAHs], if present at the site, must also be met. Soil cleanup levels for any noncarcinogenic components [such as toluene, ethylbenzene, xylenes and naphthalenes], also must be met if these substances are found to exceed the ground water cleanup levels at the site. See Table 830-1 for the minimum testing requirements for diesel releases.
- **Heavy oils** means organic compounds measured using NWTPH-Dx. Examples are #6 fuel oil, bunker C oil, hydraulic oil and waste oil. The cleanup level is based on preventing the accumulation of free product on the ground water, as described in WAC 173-340-747(10) and assuming a product composition similar to diesel fuel. The soil cleanup level for any carcinogenic components of the petroleum [such as benzene, PAHs and PCBs], if present at the site, must also be met. Soil cleanup levels for any noncarcinogenic components [such as toluene, ethylbenzene, xylenes and naphthalenes], also must be met if found to exceed the ground water cleanup levels at the site. See Table 830-1 for the minimum testing requirements for heavy oil releases.
- **Mineral oil** means non-PCB mineral oil, typically used as an insulator and coolant in electrical devices such as transformers and capacitors, measured using NWTPH-Dx. The cleanup level is based on preventing the accumulation of free product on the ground water, as described in WAC 173-340-747(10). Sites using this cleanup level must also analyze soil samples and meet the soil cleanup level for PCBs, unless it can be demonstrated that: (1) The release originated from an electrical device that was manufactured after July 1, 1979; or (2) oil containing PCBs was never used in the equipment suspected as the source of the release; or (3) it can be documented that the oil released was recently tested and did not contain PCBs. Method B must be used for releases of oils containing greater than 50 ppm PCBs. See Table 830-1 for the minimum testing requirements for mineral oil releases.

t **1,1,1 Trichloroethane.** Cleanup level based on protection of ground water for drinking water use, using the procedures described in WAC 173-340-747(4).

u **Trichloroethylene.** Cleanup level based on protection of ground water for drinking water use, using the procedures described in WAC 173-340-747(4).

v **Xylenes.** Cleanup level based on protection of ground water for drinking water use, using the procedures described in WAC 173-340-747(4). This is a total value for all xylenes.

Table 745-1

Method A Soil Cleanup Levels for Industrial Properties.[a]

Hazardous Substance	CAS Number	Cleanup Level
Arsenic	7440-38-2	20 mg/kg[b]
Benzene	71-43-2	0.03 mg/kg[c]
Benzo(a)pyrene	50-32-8	2 mg/kg[d]
Cadmium	7440-43-9	2 mg/kg[e]

Hazardous Substance	CAS Number	Cleanup Level
Chromium		
Chromium VI	18540-29-9	19 mg/kg[f1]
Chromium III	16065-83-1	2,000 mg/kg[f2]
DDT	50-29-3	4 mg/kg[g]
Ethylbenzene	100-41-4	6 mg/kg[h]
Ethylene dibromide (EDB)	106-93-4	0.005 mg/kg[i]
Lead	7439-92-1	1,000 mg/kg[j]
Lindane	58-89-9	0.01 mg/kg[k]
Methylene chloride	75-09-2	0.02 mg/kg[l]
Mercury (inorganic)	7439-97-6	2 mg/kg[m]
MTBE	1634-04-4	0.1 mg/kg[n]
Naphthalene	91-20-3	5 mg/kg[o]
PAHs (carcinogenic)		See benzo(a)pyrene[d]
PCB Mixtures		10 mg/kg[p]
Tetrachloroethylene	127-18-4	0.05 mg/kg[q]
Toluene	108-88-3	7 mg/kg[r]
Total Petroleum Hydrocarbons[s]		
[Note: Must also test for and meet cleanup levels for other petroleum components—see footnotes!]		
Gasoline Range Organics		
Gasoline mixtures without benzene and the total of ethylbenzene, toluene and xylene are less than 1% of the gasoline mixture		100 mg/kg
All other gasoline mixtures		30 mg/kg
Diesel Range Organics		2,000 mg/kg
Heavy Oils		2,000 mg/kg
Mineral Oil		4,000 mg/kg
1,1,1 Trichloroethane	71-55-6	2 mg/kg[t]
Trichloroethylene	79-01-6	0.03 mg/kg[u]
Xylenes	1330-20-7	9 mg/kg[v]

Footnotes:

a **Caution on misusing this table.** This table has been developed for specific purposes. It is intended to provide conservative cleanup levels for sites undergoing routine cleanup actions or for industrial properties with relatively few hazardous substances, and the site qualifies under WAC 173-340-7491 for an exclusion from conducting a simplified or site-specific terrestrial ecological evaluation, or it can be demonstrated using a terrestrial ecological evaluation under WAC 173-340-7492 or 173-340-7493 that the values in this table are ecologically protective for the site. This table may not be appropriate for defining cleanup levels at other sites. For these reasons, the values in this table should not automatically be used to define cleanup levels that must be met for financial, real estate, insurance coverage or placement, or similar transactions or purposes. Exceedances of the values in this table do not necessarily mean the soil must be restored to these levels at a site. The level of restoration depends on the remedy selected under WAC 173-340-350 through 173-340-390.

b **Arsenic.** Cleanup level based on protection of ground water for drinking water use, using the procedures in WAC 173-340-747(4), adjusted for natural background for soil.

c **Benzene.** Cleanup level based on protection of ground water for drinking water use, using the procedures described in WAC 173-340-747 (4) and (6).

d **Benzo(a)pyrene.** Cleanup level based on protection of ground water for drinking water use, using the procedures described in WAC 173-340-747(4). If other carcinogenic PAHs are suspected of being present at the site, test for them and use this value as the total concentration that all carcinogenic PAHs must meet using the toxicity equivalency methodology in WAC 173-340-708(8).

e **Cadmium.** Cleanup level based on protection of ground water for drinking water use, using the procedures described in WAC 173-340-747(4), adjusted for the practical quantitation limit for soil.

f1 **Chromium VI.** Cleanup level based on protection of ground water for drinking water use, using the procedures described in WAC 173-340-747(4).

f2 **Chromium III.** Cleanup level based on protection of ground water for drinking water use, using the procedures described in WAC 173-340-747(4). Chromium VI must also be tested for and the cleanup level met when present at a site.

g **DDT (dichlorodiphenyltrichloroethane).** Cleanup level based on protection of ground water for drinking water use, using the procedures described in WAC 173-340-747(4).

h **Ethylbenzene.** Cleanup level based on protection of ground water for drinking water use, using the procedures described in WAC 173-340-747(4).

i **Ethylene dibromide (1,2 dibromoethane or EDB).** Cleanup level based on protection of ground water for drinking water use, using the procedures described in WAC 173-340-747(4), adjusted for the practical quantitation limit for soil.

j **Lead.** Cleanup level based on direct contact.

k **Lindane.** Cleanup level based on protection of ground water for drinking water use, using the procedures described in WAC 173-340-747(4), adjusted for the practical quantitation limit.

l **Methylene chloride (dichloromethane).** Cleanup level based on protection of ground water for drinking water use, using the procedures described in WAC 173-340-747(4).

m **Mercury.** Cleanup level based on protection of ground water for drinking water use, using the procedures described in WAC 173-340-747(4).

n **Methyl tertiary-butyl ether (MTBE).** Cleanup level based on protection of ground water for drinking water use, using the procedures described in WAC 173-340-747(4).

o **Naphthalenes.** Cleanup level based on protection of ground water for drinking water use, using the procedures described in WAC 173-340-747(4). This is a total value for naphthalene, 1-methyl naphthalene and 2-methyl naphthalene.

p **PCB Mixtures.** Cleanup level based on applicable federal law (40 C.F.R. 761.61). This is a total value for all PCBs. This value may be used only if the PCB contaminated soils are capped and the cap maintained as required by 40 C.F.R. 761.61. If this condition cannot be met, the value in Table 740-1 must be used.

q **Tetrachloroethylene.** Cleanup level based on protection of ground water for drinking water use, using the procedures described in WAC 173-340-747(4).

r **Toluene.** Cleanup level based on protection of ground water for drinking water use, using the procedure described in WAC 173-340-747(4).

s **Total Petroleum Hydrocarbons (TPH).** TPH cleanup values have been provided for the most common petroleum products encountered at contaminated sites. Where there is a mixture of products or the product composition is unknown, samples must be tested using both the NWTPH-Gx and NWTPH-Dx methods and the lowest applicable TPH cleanup level must be met.

- **Gasoline range organics** means organic compounds measured using method NWTPH-Gx. Examples are aviation and automotive gasoline. The cleanup level is based on protection of ground water for noncarcinogenic effects during drinking water use using the procedures described in WAC 173-340-747(6). Two cleanup levels are provided. The lower value of 30 mg/kg can be used at any site. When using this lower value, the soil must also be tested for and meet the benzene soil cleanup level. The higher value of 100 mg/kg can only be used if the soil is tested and found to contain no benzene and the total of ethylbenzene, toluene and xylene are less than 1% of the gasoline mixture. No interpolation between these cleanup levels is allowed. In both cases, the soil cleanup level for any other carcinogenic components of the petroleum [such as EDB and EDC], if present at the site, must also be met. Also, in both cases, soil cleanup levels for any noncarcinogenic components [such as toluene, ethylbenzene, xylenes, naphthalene, and MTBE], also must be met if these substances are found to exceed ground water cleanup levels at the site. See Table 830-1 for the minimum testing requirements for gasoline releases.
- **Diesel range organics** means organic compounds measured using method NWTPH-Dx. Examples are diesel, kerosene, and #1 and #2 heating oil. The cleanup level is based on preventing the accumulation of free product on the ground water, as described in WAC 173-340-747(10). The soil cleanup level for any carcinogenic components of the petroleum [such as benzene, and PAHs], if present at the site, must also be met. Soil cleanup levels for any noncarcinogenic components [such as toluene, ethylbenzene, xylenes and naphthalenes], also must be met if these substances are found to exceed the ground water cleanup levels at the site. See Table 830-1 for the minimum testing requirements for diesel releases.
- **Heavy oils** means organic compounds measured using NWTPH-Dx. Examples are #6 fuel oil, bunker C oil, hydraulic oil and waste oil. The cleanup level is based on preventing the accumulation of free product on the ground water, as described in WAC 173-340-747(10) and assuming a product composition similar to diesel fuel. The soil cleanup level for any carcinogenic compo-

nents of the petroleum [such as benzene, PAHs and PCBs], if present at the site, must also be met. Soil cleanup levels for any noncarcinogenic components [such as toluene, ethylbenzene, xylenes and naphthalenes], also must be met if found to exceed the ground water cleanup levels at the site. See Table 830-1 for the minimum testing requirements for heavy oil releases.

- **Mineral oil** means non-PCB mineral oil, typically used as an insulator and coolant in electrical devices such as transformers and capacitors, measured using NWTPH-Dx. The cleanup level is based on preventing the accumulation of free product on the ground water, as described in WAC 173-340-747(10). Sites using this cleanup level must also analyze soil samples and meet the soil cleanup level for PCBs, unless it can be demonstrated that: (1) The release originated from an electrical device that was manufactured after July 1, 1979; or (2) oil containing PCBs was never used in the equipment suspected as the source of the release; or (3) it can be documented that the oil released was recently tested and did not contain PCBs. Method B or C must be used for releases of oils containing greater than 50 ppm PCBs. See Table 830-1 for the minimum testing requirements for mineral oil releases.

t **1,1,1 Trichloroethane.** Cleanup level based on protection of ground water for drinking water use, using the procedures described in WAC 173-340-747(4).

u **Trichloroethylene.** Cleanup level based on protection of ground water for drinking water use, using the procedures described in WAC 173-340-747(4).

v **Xylenes.** Cleanup level based on protection of ground water for drinking water use, using the procedure in WAC 173-340-747(4). This is a total value for all xylenes.

Table 747-1
Soil Organic Carbon-Water Partitioning Coefficient (K_{oc}) Values: Nonionizing Organics.

Hazardous Substance	K_{oc} (ml/g)
ACENAPHTHENE	4,898
ALDRIN	48,685
ANTHRACENE	23,493
BENZ(a)ANTHRACENE	357,537
BENZENE	62
BENZO(a)PYRENE	968,774
BIS(2-CHLOROETHYL)ETHER	76
BIS(2-ETHYLHEXYL)PHTHALATE	111,123
BROMOFORM	126
BUTYL BENZYL PHTHALATE	13,746
CARBON TETRACHLORIDE	152
CHLORDANE	51,310
CHLOROBENZENE	224
CHLOROFORM	53
DDD	45,800
DDE	86,405
DDT	677,934
DIBENZO(a,h)ANTHRACENE	1,789,101
1,2-DICHLOROBENZENE (o)	379
1,4-DICHLOROBENZENE (p)	616
DICHLOROETHANE-1,1	53
DICHLOROETHANE-1,2	38
DICHLOROETHYLENE-1,1	65
trans-1,2 DICHLOROETHYLENE	38
DICHLOROPROPANE-1,2	47
DICHLOROPROPENE-1,3	27
DIELDRIN	25,546
DIETHYL PHTHALATE	82
DI-N-BUTYLPHTHALATE	1,567
EDB	66
ENDRIN	10,811
ENDOSULFAN	2,040
ETHYL BENZENE	204
FLUORANTHENE	49,096
FLUORENE	7,707
HEPTACHLOR	9,528
HEXACHLOROBENZENE	80,000
α-HCH (α-BHC)	1,762
β-HCH (β-BHC)	2,139
γ-HCH (LINDANE)	1,352
MTBE	11
METHOXYCHLOR	80,000
METHYL BROMIDE	9
METHYL CHLORIDE	6
METHYLENE CHLORIDE	10
NAPHTHALENE	1,191
NITROBENZENE	119
PCB-Arochlor 1016	107,285
PCB-Arochlor 1260	822,422
PENTACHLOROBENZENE	32,148
PYRENE	67,992
STYRENE	912
1,1,2,2,-TETRACHLOROETHANE	79
TETRACHLOROETHYLENE	265
TOLUENE	140
TOXAPHENE	95,816
1,2,4-TRICHLOROBENZENE	1,659
TRICHLOROETHANE -1,1,1	135
TRICHLOROETHANE-1,1,2	75
TRICHLOROETHYLENE	94
o-XYLENE	241
m-XYLENE	196
p-XYLENE	311

Sources: Except as noted below, the source of the K_{oc} values is the 1996 *EPA Soil Screening Guidance: Technical Background Document*. The values obtained from this document represent the geometric mean of a survey of values published in the scientific literature. Sample populations ranged from 1-65. EDB value from *ATSDR Toxicological Profile* (TP 91/13). MTBE value from *USGS Final Draft Report on Fuel Oxygenates* (March 1996). PCB-Arochlor values from 1994 *EPA Draft Soil Screening Guidance*.

Table 747-2
Predicted Soil Organic Carbon-Water Partitioning Coefficient (K_{oc}) as a Function of pH: Ionizing Organics.

Hazardous Substance	K_{oc} Value (ml/g)		
	pH = 4.9	pH = 6.8	pH = 8.0
Benzoic acid	5.5	0.6	0.5
2-Chlorophenol	398	388	286
2-4-Dichlorophenol	159	147	72
2-4-Dinitrophenol	0.03	0.01	0.01
Pentachlorophenol	9,055	592	410
2,3,4,5-Tetrachlorophenol	17,304	4,742	458
2,3,4,6-Tetrachlorophenol	4,454	280	105
2,4,5-Trichlorophenol	2,385	1,597	298
2,4,6-Trichlorophenol	1,040	381	131

Source: 1996 *EPA Soil Screening Guidance: Technical Background Document*. The predicted K_{oc} values in this table were derived using a relationship from thermodynamic equilibrium considerations to predict the total sorption of an ionizable organic compound from the partitioning of its ionized and neutral forms.

Table 747-3
Metals Distribution Coefficients (K_d).

Hazardous Substance	K_d (L/kg)
Arsenic	29

Hazardous Substance	K_d (L/kg)
Cadmium	6.7
Total Chromium	1,000
Chromium VI	19
Copper	22
Mercury	52
Nickel	65
Lead	10,000
Selenium	5
Zinc	62

Source: Multiple sources compiled by the department of ecology.

Table 747-4
Petroleum EC Fraction Physical/Chemical Values.

Fuel Fraction	Equivalent Carbon Number[1]	Water Solubility[2] (mg/L)	Mol. Wt.[3] (g/mol)	Henry's Constant[4] (cc/cc)	GFW[5] (mg/mol)	Density[6] (mg/l)	Soil Organic Carbon-Water Partitioning Coefficient K_{oc}[7] (L/kg)
ALIPHATICS							
EC 5 - 6	5.5	36.0	81.0	33.0	81,000	670,000	800
EC > 6 - 8	7.0	5.4	100.0	50.0	100,000	700,000	3,800
EC > 8 - 10	9.0	0.43	130.0	80.0	130,000	730,000	30,200
EC > 10 - 12	11.0	0.034	160.0	120.0	160,000	750,000	234,000
EC > 12 - 16	14.0	7.6E-04	200.0	520.0	200,000	770,000	5.37E+06
EC > 16 - 21	19.0	1.3E-06	270.0	4,900	270,000	780,000	9.55E+09
EC > 21 - 34	28.0	1.5E-11	400.0	100,000	400,000	790,000	1.07E+10
AROMATICS							
EC > 8 - 10	9.0	65.0	120.0	0.48	120,000	870,000	1,580
EC > 10 - 12	11.0	25.0	130.0	0.14	130,000	900,000	2,510
EC > 12 - 16	14.0	5.8	150.0	0.053	150,000	1,000,000	5,010
EC > 16 - 21	19.0	0.51	190.0	0.013	190,000	1,160,000	15,800
EC > 21 - 34	28.0	6.6E-03	240.0	6.7E-04	240,000	1,300,000	126,000
TPH COMPONENTS							
Benzene	6.5	1,750	78.0	0.228	78,000	876,500	62.0
Toluene	7.6	526.0	92.0	0.272	92,000	866,900	140.0
Ethylbenzene	8.5	169.0	106.0	0.323	106,000	867,000	204.0
Total Xylenes[8] (average of 3)	8.67	171.0	106.0	0.279	106,000	875,170	233.0
n-Hexane[9]	6.0	9.5	86.0	74.0	86,000	659,370	3,410
MTBE[10]		50,000	88.0	0.018	88,000	744,000	10.9
Naphthalenes	11.69	31.0	128.0	0.0198	128,000	1,145,000	1,191

Sources:

1 **Equivalent Carbon Number.** Gustafson, J.B. et al., *Selection of Representative TPH Fractions Based on Fate and Transport Considerations. Total Petroleum Hydrocarbon Criteria Working Group Series*, Volume 3 (1997) [hereinafter *Criteria Working Group*].

2 **Water Solubility.** For aliphatics and aromatics EC groups, *Criteria Working Group.* For TPH components except n-hexane and MTBE, *1996 EPA Soil Screening Guidance: Technical Background Document*.

3 **Molecular Weight.** *Criteria Working Group.*

4 **Henry's Constant.** For aliphatics and aromatics EC groups, *Criteria Working Group.* For TPH components except n-hexane and MTBE, *1996 EPA Soil Screening Guidance: Technical Background Document*.

5 **Gram Formula Weight (GFW).** Based on 1000 x Molecular Weight.

6 **Density.** For aliphatics and aromatics EC groups, based on correlation between equivalent carbon number and data on densities of individual hazardous substances provided in *Criteria Working Group.* For TPH components except n-hexane and MTBE, *1996 EPA Soil Screening Guidance: Technical Background Document.*

7 **Soil Organic Carbon-Water Partitioning Coefficient.** For aliphatics and aromatics EC groups, *Criteria Working Group.* For TPH components except n-hexane and MTBE, *1996 EPA Soil Screening Guidance: Technical Background Document.*

8 **Total Xylenes.** Values for total xylenes are a weighted average of m, o and p xylene based on gasoline composition data from the *Criteria Working Group* (m = 51% of total xylene; o = 28% of total xylene; and p = 21% of total xylene).

9 **n-Hexane.** For values other than density, *Criteria Working Group*. For the density value, *Hawley's Condensed Chemical Dictionary,* 11th ed., revised by N. Irving Sax and Richard J. Lewis (1987).

10 **MTBE.** *USGS Final Report on Fuel Oxygenates* (March 1996).

Table 747-5
Residual Saturation Screening Levels for TPH.

Fuel	Screening Level (mg/kg)
Weathered Gasoline	1,000
Middle Distillates (e.g., Diesel No. 2 Fuel Oil)	2,000
Heavy Fuel Oils (e.g., No. 6 Fuel Oil)	2,000
Mineral Oil	4,000
Unknown Composition or Type	1,000

Note: The residual saturation screening levels for petroleum hydrocarbons specified in Table 747-5 are based on coarse sand and gravelly soils; however, they may be used for any soil type. Screening levels are based on the presumption that there are no preferential pathways for NAPL to flow downward to ground water. If such pathways exist, more stringent residual saturation screening levels may need to be established.

Table 749-1
Simplified Terrestrial Ecological Evaluation - Exposure Analysis Procedure under WAC 173-340-7492 (2)(a)(ii).[a]

Estimate the area of contiguous (connected) undeveloped land on the site or within 500 feet of any area of the site to the nearest 1/2 acre (1/4 acre if the area is less than 0.5 acre). "Undeveloped land" means land that is not covered by existing buildings, roads, paved areas or other barriers that will prevent wildlife from feeding on plants, earthworms, insects or other food in or on the soil.		
1) From the table below, find the number of points corresponding to the area and enter this number in the box to the right.		
Area (acres)	Points	
0.25 or less	4	
0.5	5	
1.0	6	
1.5	7	
2.0	8	
2.5	9	
3.0	10	
3.5	11	
4.0 or more	12	
2) Is this an industrial or commercial property? See WAC 173-340-7490 (3)(c). If yes, enter a score of 3 in the box to the right. If no, enter a score of 1.		
3) Enter a score in the box to the right for the habitat quality of the site, using the rating system shown below[b]. (High = 1, Intermediate = 2, Low = 3)		
4) Is the undeveloped land likely to attract wildlife? If yes, enter a score of 1 in the box to the right. If no, enter a score of 2. See footnote c.		
5) Are there any of the following soil contaminants present: Chlorinated dibenzo-p-dioxins/dibenzofurans, PCB mixtures, DDT, DDE, DDD, aldrin, chlordane, dieldrin, endosulfan, endrin, heptachlor, benzene hexachloride, toxaphene, hexachlorobenzene, pentachlorophenol, pentachlorobenzene? If yes, enter a score of 1 in the box to the right. If no, enter a score of 4.		
6) Add the numbers in the boxes on lines 2 through 5 and enter this number in the box to the right. If this number is larger than the number in the box on line 1, the simplified terrestrial ecological evaluation may be ended under WAC 173-340-7492 (2)(a)(ii).		

Footnotes:

a It is expected that this habitat evaluation will be undertaken by an experienced field biologist. If this is not the case, enter a conservative score (1) for questions 3 and 4.

b Habitat rating system. Rate the quality of the habitat as high, intermediate or low based on your professional judgment as a field biologist. The following are suggested factors to consider in making this evaluation:
Low: Early successional vegetative stands; vegetation predominantly noxious, nonnative, exotic plant species or weeds. Areas severely disturbed by human activity, including intensively cultivated croplands. Areas isolated from other habitat used by wildlife.
High: Area is ecologically significant for one or more of the following reasons: Late-successional native plant communities present; relatively high species diversity; used by an uncommon or rare species; priority habitat (as defined by the Washington department of fish and wildlife); part of a larger area of habitat where size or fragmentation may be important for the retention of some species.
Intermediate: Area does not rate as either high or low.

c Indicate "yes" if the area attracts wildlife or is likely to do so. Examples: Birds frequently visit the area to feed; evidence of high use by mammals (tracks, scat, etc.); habitat "island" in an industrial area; unusual features of an area that make it important for feeding animals; heavy use during seasonal migrations.

Table 749-2
Priority Contaminants of Ecological Concern for Sites that Qualify for the Simplified Terrestrial Ecological Evaluation Procedure.[a]

Priority contaminant	Soil concentration (mg/kg)	
	Unrestricted land use[b]	Industrial or commercial site
METALS[C]		
Antimony	See note d	See note d
Arsenic III	20 mg/kg	20 mg/kg
Arsenic V	95 mg/kg	260 mg/kg
Barium	1,250 mg/kg	1,320 mg/kg
Beryllium	25 mg/kg	See note d
Cadmium	25 mg/kg	36 mg/kg
Chromium (total)	42 mg/kg	135 mg/kg
Cobalt	See note d	See note d
Copper	100 mg/kg	550 mg/kg
Lead	220 mg/kg	220 mg/kg
Magnesium	See note d	See note d
Manganese	See note d	23,500 mg/kg
Mercury, inorganic	9 mg/kg	9 mg/kg
Mercury, organic	0.7 mg/kg	0.7 mg/kg
Molybdenum	See note d	71 mg/kg
Nickel	100 mg/kg	1,850 mg/kg
Selenium	0.8 mg/kg	0.8 mg/kg
Silver	See note d	See note d
Tin	275 mg/kg	See note d
Vanadium	26 mg/kg	See note d
Zinc	270 mg/kg	570 mg/kg
PESTICIDES		
Aldicarb/aldicarb sulfone (total)	See note d	See note d
Aldrin	0.17 mg/kg	0.17 mg/kg
Benzene hexachloride (including lindane)	10 mg/kg	10 mg/kg
Carbofuran	See note d	See note d
Chlordane	1 mg/kg	7 mg/kg
Chlorpyrifos/chlorpyrifos-methyl (total)	See note d	See note d
DDT/DDD/DDE (total)	1 mg/kg	1 mg/kg
Dieldrin	0.17 mg/kg	0.17 mg/kg
Endosulfan	See note d	See note d
Endrin	0.4 mg/kg	0.4 mg/kg
Heptachlor/heptachlor epoxide (total)	0.6 mg/kg	0.6 mg/kg
Hexachlorobenzene	31 mg/kg	31 mg/kg
Parathion/methyl parathion (total)	See note d	See note d
Pentachlorophenol	11 mg/kg	11 mg/kg
Toxaphene	See note d	See note d
OTHER CHLORINATED ORGANICS		
Chlorinated dibenzofurans (total)	3E-06 mg/kg	3E-06 mg/kg
Chlorinated dibenzo-p-dioxins (total)	5E-06 mg/kg	5E-06 mg/kg
Hexachlorophene	See note d	See note d
PCB mixtures (total)	2 mg/kg	2 mg/kg
Pentachlorobenzene	168 mg/kg	See note d
OTHER NONCHLORINATED ORGANICS		
Acenaphthene	See note d	See note d
Benzo(a)pyrene	30 mg/kg	300 mg/kg
Bis (2-ethylhexyl) phthalate	See note d	See note d
Di-n-butyl phthalate	200 mg/kg	See note d

Priority contaminant	Soil concentration (mg/kg)	
	Unrestricted land use[b]	Industrial or commercial site
PETROLEUM		
Gasoline Range Organics	200 mg/kg	12,000 mg/kg except that the concentration shall not exceed residual saturation at the soil surface.
Diesel Range Organics	460 mg/kg	15,000 mg/kg except that the concentration shall not exceed residual saturation at the soil surface.

Footnotes:

a Caution on misusing these chemical concentration numbers. These values have been developed for use at sites where a site-specific terrestrial ecological evaluation is not required. They are not intended to be protective of terrestrial ecological receptors at every site. Exceedances of the values in this table do not necessarily trigger requirements for cleanup action under this chapter. The table is not intended for purposes such as evaluating sludges or wastes.
This list does not imply that sampling must be conducted for each of these chemicals at every site. Sampling should be conducted for those chemicals that might be present based on available information, such as current and past uses of chemicals at the site.

b Applies to any site that does not meet the definition of industrial or commercial.

c For arsenic, use the valence state most likely to be appropriate for site conditions, unless laboratory information is available. Where soil conditions alternate between saturated, anaerobic and unsaturated, aerobic states, resulting in the alternating presence of arsenic III and arsenic V, the arsenic III concentrations shall apply.

d Safe concentration has not yet been established. See WAC 173-340-7492 (2)(c).

Table 749-3

Ecological Indicator Soil Concentrations (mg/kg) for Protection of Terrestrial Plants and Animals[a]. For chemicals where a value is not provided, see footnote b.

Note: These values represent soil concentrations that are expected to be protective at any MTCA site and are provided for use in eliminating hazardous substances from further consideration under WAC 173-340-7493 (2)(a)(i). Where these values are exceeded, various options are provided for demonstrating that the hazardous substance does not pose a threat to ecological receptors at a site, or for developing site-specific remedial standards for eliminating threats to ecological receptors. See WAC 173-340-7493 (1)(b)(i), 173-340-7493 (2)(a)(ii) and 173-340-7493(3).

Hazardous Substance[b]	Plants[c]	Soil biota[d]	Wildlife[e]
METALS[f]:			
Aluminum (soluble salts)	50		
Antimony	5		
Arsenic III			7
Arsenic V	10	60	132
Barium	500		102
Beryllium	10		
Boron	0.5		
Bromine	10		
Cadmium	4	20	14
Chromium (total)	42[g]	42[g]	67
Cobalt	20		
Copper	100	50	217
Fluorine	200		
Iodine	4		
Lead	50	500	118
Lithium	35[g]		
Manganese	1,100[g]		1,500
Mercury, inorganic	0.3	0.1	5.5
Mercury, organic			0.4
Molybdenum	2		7
Nickel	30	200	980
Selenium	1	70	0.3
Silver	2		
Technetium	0.2		
Thallium	1		
Tin	50		
Uranium	5		
Vanadium	2		
Zinc	86[g]	200	360
PESTICIDES:			
Aldrin			0.1
Benzene hexachloride (including lindane)			6
Chlordane		1	2.7
DDT/DDD/DDE (total)			0.75
Dieldrin			0.07
Endrin			0.2
Hexachlorobenzene			17
Heptachlor/heptachlor epoxide (total)			0.4
Pentachlorophenol	3	6	4.5
OTHER CHLORINATED ORGANICS:			
1,2,3,4-Tetrachlorobenzene		10	
1,2,3-Trichlorobenzene		20	
1,2,4-Trichlorobenzene		20	
1,2-Dichloropropane		700	
1,4-Dichlorobenzene		20	
2,3,4,5-Tetrachlorophenol		20	
2,3,5,6-Tetrachloroaniline	20	20	
2,4,5-Trichloroaniline	20	20	
2,4,5-Trichlorophenol	4	9	
2,4,6-Trichlorophenol		10	
2,4-Dichloroaniline		100	
3,4-Dichloroaniline		20	
3,4-Dichlorophenol	20	20	
3-Chloroaniline	20	30	
3-Chlorophenol	7	10	
Chlorinated dibenzofurans (total)			2E-06
Chloroacetamide		2	
Chlorobenzene		40	
Chlorinated dibenzo-p-dioxins (total)			2E-06
Hexachlorocyclopentadiene	10		
PCB mixtures (total)	40		0.65
Pentachloroaniline		100	
Pentachlorobenzene		20	
OTHER NONCHLORINATED ORGANICS:			
2,4-Dinitrophenol	20		
4-Nitrophenol		7	
Acenaphthene	20		
Benzo(a)pyrene			12
Biphenyl	60		
Diethylphthalate	100		
Dimethylphthalate		200	
Di-n-butyl phthalate	200		
Fluorene		30	
Furan	600		
Nitrobenzene		40	
N-nitrosodiphenylamine		20	
Phenol	70	30	
Styrene	300		
Toluene	200		
PETROLEUM:			
Gasoline Range Organics		100	5,000 mg/kg except that the concentration shall not exceed residual saturation at the soil surface.

Hazardous Substance[b]	Plants[c]	Soil biota[d]	Wildlife[e]
Diesel Range Organics		200	6,000 mg/kg except that the concentration shall not exceed residual saturation at the soil surface.

Footnotes:

a Caution on misusing ecological indicator concentrations. Exceedances of the values in this table do not necessarily trigger requirements for cleanup action under this chapter. Natural background concentrations may be substituted for ecological indicator concentrations provided in this table. The table is not intended for purposes such as evaluating sludges or wastes.
This list does not imply that sampling must be conducted for each of these chemicals at every site. Sampling should be conducted for those chemicals that might be present based on available information, such as current and past uses of chemicals at the site.

b For hazardous substances where a value is not provided, plant and soil biota indicator concentrations shall be based on a literature survey conducted in accordance with WAC 173-340-7493(4) and calculated using methods described in the publications listed below in footnotes c and d. Methods to be used for developing wildlife indicator concentrations are described in Tables 749-4 and 749-5.

c Based on benchmarks published in *Toxicological Benchmarks for Screening Potential Contaminants of Concern for Effects on Terrestrial Plants: 1997 Revision*, Oak Ridge National Laboratory, 1997.

d Based on benchmarks published in *Toxicological Benchmarks for Potential Contaminants of Concern for Effects on Soil and Litter Invertebrates and Heterotrophic Process*, Oak Ridge National Laboratory, 1997.

e Calculated using the exposure model provided in Table 749-4 and chemical-specific values provided in Table 749-5. Where both avian and mammalian values are available, the wildlife value is the lower of the two.

f For arsenic, use the valence state most likely to be appropriate for site conditions, unless laboratory information is available. Where soil conditions alternate between saturated, anaerobic and unsaturated, aerobic states, resulting in the alternating presence of arsenic III and arsenic V, the arsenic III concentrations shall apply.

g Benchmark replaced by Washington state natural background concentration.

Table 749-4
Wildlife Exposure Model for Site-specific Evaluations.[a]

Plant	
K_{Plant}	Plant uptake coefficient (dry weight basis)
	Units: mg/kg plant/mg/kg soil
	Value: chemical-specific (see Table 749-5)
Soil biota Surrogate receptor: Earthworm	
BAF_{Worm}	Earthworm bioaccumulation factor (dry weight basis)
	Units: mg/kg worm/mg/kg soil
	Value: chemical-specific (see Table 749-5)
Mammalian predator Surrogate receptor: Shrew (*Sorex*)	
$P_{SB\ (shrew)}$	Proportion of contaminated food (earthworms) in shrew diet
	Units: unitless
	Value: 0.50
$FIR_{Shrew,DW}$	Food ingestion rate (dry weight basis)
	Units: kg dry food/kg body weight - day
	Value: 0.45
$SIR_{Shrew,DW}$	Soil ingestion rate (dry weight basis)
	Units: kg dry soil/kg body weight - day
	Value: 0.0045
$RGAF_{Soil,\ shrew}$	Gut absorption factor for a hazardous substance in soil expressed relative to the gut absorption factor for the hazardous substance in food.
	Units: unitless
	Value: chemical-specific (see Table 749-5)
T_{Shrew}	Toxicity reference value for shrew
	Units: mg/kg - day
	Value: chemical-specific (see Table 749-5)
Home range	0.1 Acres
Avian predator Surrogate receptor: American robin (*Turdus migratorius*)	
$P_{SB\ (Robin)}$	Proportion of contaminated food (soil biota) in robin diet
	Unit: unitless
	Value: 0.52
$FIR_{Robin,DW}$	Food ingestion rate (dry weight basis)
	Units: kg dry food/kg body weight - day
	Value: 0.207
$SIR_{Robin,DW}$	Soil ingestion rate (dry weight basis)
	Units: kg dry soil/kg body weight - day

	Value: 0.0215
$RGAF_{Soil, robin}$	Gut absorption factor for a hazardous substance in soil expressed relative to the gut absorption factor for the hazardous substance in food.
	Units: unitless
	Value: chemical-specific (see Table 749-5)
T_{Robin}	Toxicity reference value for robin
	Units: mg/kg - day
	Value: chemical-specific (see Table 749-5)
Home range	0.6 Acres
Mammalian herbivore Surrogate receptor: Vole (*Microtus*)	
$P_{Plant, vole}$	Proportion of contaminated food (plants) in vole diet
	Units: unitless
	Value: 1.0
$FIR_{Vole,DW}$	Food ingestion rate (dry weight basis)
	Units: kg dry food/kg body weight - day
	Value: 0.315
$SIR_{Vole,DW}$	Soil ingestion rate (dry weight basis)
	Units: kg dry soil/kg body weight - day
	Value: 0.0079
$RGAF_{Soil, vole}$	Gut absorption factor for a hazardous substance in soil expressed relative to the gut absorption factor for the hazardous substance in food.
	Units: unitless
	Value: chemical-specific (see Table 749-5)
T_{Vole}	Toxicity reference value for vole
	Units: mg/kg - day
	Value: chemical-specific (see Table 749-5)
Home range	0.08 Acres
Soil concentrations for wildlife protection[b]	
(1) Mammalian predator: $SC_{MP} = (T_{Shrew})/[(FIR_{Shrew,DW} \times P_{SB\ (shrew)} \times BAF_{Worm}) + (SIR_{Shrew,DW} \times RGAF_{Soil, shrew})]$	
(2) Avian predator: $SC_{AP} = (T_{Robin})/[(FIR_{Robin,DW} \times P_{SB\ (Robin)} \times BAF_{Worm}) + (SIR_{Robin,DW} \times RGAF_{Soil, robin})]$	
(3) Mammalian herbivore: $SC_{MH} = (T_{Vole})/[(FIR_{Vole,DW} \times P_{Plant, vole} \times K_{Plant}) + (SIR_{Vole,DW} \times RGAF_{Soil, vole})]$	

Footnotes:

a Substitutions for default receptors may be made as provided for in WAC 173-340-7493(7). If a substitute species is used, the values for food and soil ingestion rates, and proportion of contaminated food in the diet, may be modified to reasonable maximum exposure estimates for the substitute species based on a literature search conducted in accordance with WAC 173-340-7493(4).
Additional species may be added on a site-specific basis as provided in WAC 173-340-7493 (2)(a).
The department shall consider proposals for modifications to default values provided in this table based on new scientific information in accordance with WAC 173-340-702(14).

b Use the lowest of the three concentrations calculated as the wildlife value.

Table 749-5
Default Values for Selected Hazardous Substances for use with the Wildlife Exposure Model in Table 749-4.[a]

	Toxicity reference value (mg/kg - d)				
Hazardous Substance	**BAF_{Worm}**	**K_{Plant}**	**Shrew**	**Vole**	**Robin**
METALS:					
Arsenic III	1.16	0.06	1.89	1.15	
Arsenic V	1.16	0.06	35	35	22
Barium	0.36		43.5	33.3	
Cadmium	4.6	0.14	15	15	20
Chromium	0.49		35.2	29.6	5
Copper	0.88	0.020	44	33.6	61.7
Lead	0.69	0.0047	20	20	11.3
Manganese	0.29		624	477	
Mercury, inorganic	1.32	0.0854	2.86	2.18	0.9
Mercury, organic	1.32		0.352	0.27	0.064
Molybdenum	0.48	1.01	3.09	2.36	35.3

	Toxicity reference value (mg/kg - d)				
Hazardous Substance	**BAF_{Worm}**	**K_{Plant}**	**Shrew**	**Vole**	**Robin**
Nickel	0.78	0.047	175.8	134.4	107
Selenium	10.5	0.0065	0.725	0.55	1
Zinc	3.19	0.095	703.3	537.4	131
PESTICIDES:					
Aldrine	4.77	0.007[b]	2.198	1.68	0.06
Benzene hexachloride (including lindane)	10.1				7
Chlordane	17.8	0.011[b]	10.9	8.36	10.7
DDT/DDD/DDE	10.6	0.004[b]	8.79	6.72	0.87
Dieldrin	28.8	0.029[b]	0.44	0.34	4.37
Endrin	3.6	0.038[b]	1.094	0.836	0.1
Heptachlor/heptachlor epoxide	10.9	0.027[b]	2.857	2.18	0.48
Hexachlorobenzene	1.08				2.4
Pentachlorophenol	5.18	0.043[b]	5.275	4.03	
OTHER CHLORINATED ORGANICS:					
Chlorinated dibenzofurans	48				1.0E-05
Chlorinated dibenzo-p-dioxins	48	0.005[b]	2.2E-05	1.7E-05	1.4E-04
PCB mixtures	4.58	0.087[b]	0.668	0.51	1.8
OTHER NONCHLORINATED ORGANICS:					
Benzo(a)pyrene	0.43	0.011	1.19	0.91	

Footnotes:

a For hazardous substances not shown in this table, use the following default values. Alternatively, use values established from a literature survey conducted in accordance with WAC 173-340-7493(4) and approved by the department.

K_{Plant}: Metals (including metalloid elements): 1.01

Organic chemicals: $K_{Plant} = 10^{(1.588-(0.578 \log Kow))}$,

where $\log K_{ow}$ is the logarithm of the octanol-water partition coefficient.

BAF_{Worm}: Metals (including metalloid elements): 4.6

Nonchlorinated organic chemicals:

$\log K_{ow} < 5$: 0.7

$\log K_{ow} > 5$: 0.9

Chlorinated organic chemicals:

$\log K_{ow} < 5$: 4.7

$\log K_{ow} > 5$: 11.8

$RGAF_{Soil}$ (all receptors): 1.0

Toxicity reference values (all receptors): Values established from a literature survey conducted in accordance with WAC 173-340-7493(4).

Site-specific values may be substituted for default values, as described below:

K_{Plant} Value from a literature survey conducted in accordance with WAC 173-340-7493(4) or from empirical studies at the site.

BAF_{Worm} Value from a literature survey conducted in accordance with WAC 173-340-7493(4) or from empirical studies at the site.

$RGAF_{Soil}$ (all receptors): Value established from a literature survey conducted in accordance with WAC 173-340-7493(4).

Toxicity reference values (all receptors): Default toxicity reference values provided in this table may be replaced by a value established from a literature survey conducted in accordance with WAC 173-340-7493(4).

b Calculated from $\log K_{ow}$ using formula in footnote a.

Table 830-1
Required Testing for Petroleum Releases.

	Gasoline Range Organics (GRO) (1)	Diesel Range Organics (DRO) (2)	Heavy Oils (DRO) (3)	Mineral Oils (4)	Waste Oils and Unknown Oils (5)
Volatile Petroleum Compounds					
Benzene	X (6)	X (7)			X (8)
Toluene	X (6)	X (7)			X (8)
Ethyl benzene	X (6)	X (7)			X (8)
Xylenes	X (6)	X (7)			X (8)
n-Hexane	X (9)				
Fuel Additives and Blending Compounds					
Dibromoethane, 1-2 (EDB); and Dichloroethane, 1-2 (EDC)	X (10)				X (8)
Methyl tertiary-butyl ether (MTBE)	X (11)				X (8)

Table 830-1
Required Testing for Petroleum Releases.

	Gasoline Range Organics (GRO) (1)	Diesel Range Organics (DRO) (2)	Heavy Oils (DRO) (3)	Mineral Oils (4)	Waste Oils and Unknown Oils (5)
Total lead & other additives	X (12)				X (8)
Other Petroleum Components					
Carcinogenic PAHs		X (13)	X (13)		X (8)
Naphthalenes	X (14)	X (14)	X (14)		X (14)
Other Compounds					
Polychlorinated Biphenyls (PCBs)			X (15)	X (15)	X (8)
Halogenated Volatile Organic Compounds (VOCs)					X (8)
Other	X (16)	X (16)	X (16)	X (16)	X (16)
Total Petroleum Hydrocarbons Methods					
TPH Analytical Method for Total TPH (Method A Cleanup Levels) (17)	NWTPH-Gx	NWTPH-Dx	NWTPH-Dx	NWTPH-Dx	NWTPH-Gx & NWTPH-Dx
TPH Analytical Methods for TPH fractions (Methods B or C) (17)	VPH	EPH	EPH	EPH	VPH and EPH

Use of Table 830-1: An "X" in the box means that the testing requirement applies to ground water and soil if a release is known or suspected to have occurred to that medium, unless otherwise specified in the footnotes. A box with no "X" indicates (except in the last two rows) that, for the type of petroleum product release indicated in the top row, analyses for the hazardous substance(s) named in the far-left column corresponding to the empty box are not typically required as part of the testing for petroleum releases. However, such analyses may be required based on other site-specific information. Note that testing for Total Petroleum Hydrocarbons (TPH) is required for every type of petroleum release, as indicated in the bottom two rows of the table. The testing method for TPH depends on the type of petroleum product released and whether Method A or Method B or C is being used to determine TPH cleanup levels. See WAC 173-340-830 for analytical procedures. **The footnotes to this table are important for understanding the specific analytical requirements for petroleum releases.**

Footnotes:

(1) The following petroleum products are common examples of GRO: automotive and aviation gasolines, mineral spirits, stoddard solvents, and naphtha. To be in this range, 90 percent of the petroleum components need to be quantifiable using the NWTPH-Gx; if NWTPH-HCID results are used for this determination, then 90 percent of the "area under the TPH curve" must be quantifiable using NWTPH-Gx. Products such as jet fuel, diesel No. 1, kerosene, and heating oil may require analysis as both GRO and DRO depending on the range of petroleum components present (range can be measured by NWTPH-HCID). (See footnote 17 on analytical methods.)

(2) The following petroleum products are common examples of DRO: Diesel No. 2, fuel oil No. 2, light oil (including some bunker oils). To be in this range, 90 percent of the petroleum components need to be quantifiable using the NWTPH-Dx quantified against a diesel standard. Products such as jet fuel, diesel No. 1, kerosene, and heating oil may require analysis as both GRO and DRO depending on the range of petroleum components present as measured in NWTPH-HCID.

(3) The following petroleum products are common examples of the heavy oil group: Motor oils, lube oils, hydraulic fluids, etc. Heavier oils may require the addition of an appropriate oil range standard for quantification.

(4) Mineral oil means non-PCB mineral oil, typically used as an insulator and coolant in electrical devices such as transformers and capacitors.

(5) The waste oil category applies to waste oil, oily wastes, and unknown petroleum products and mixtures of petroleum and nonpetroleum substances. Analysis of other chemical components (such as solvents) than those listed may be required based on site-specific information. Mixtures of identifiable petroleum products (such as gasoline and diesel, or diesel and motor oil) may be analyzed based on the presence of the individual products, and need not be treated as waste and unknown oils.

(6) When using Method A, testing soil for benzene is required. Furthermore, testing ground water for BTEX is necessary when a petroleum release to ground water is known or suspected. If the ground water is tested and toluene, ethyl benzene or xylene is in the ground water above its respective Method A cleanup level, the soil must also be tested for that chemical. When using Method B or C, testing the soil for BTEX is required and testing for BTEX in ground water is required when a release to ground water is known or suspected.

(7)(a) For DRO releases from other than home heating oil systems, follow the instructions for GRO releases in Footnote (6).

(b) For DRO releases from typical home heating oil systems (systems of 1,100 gallons or less storing heating oil for residential consumptive use on the premises where stored), testing for BTEX is not usually required for either ground water or soil. Testing of the ground water is also not usually required for these systems; however, if the ground water is tested and benzene is found in the ground water, the soil must be tested for benzene.

(8) Testing is required in a sufficient number of samples to determine whether this chemical is present at concentrations of concern. If the chemical is found to be at levels below the applicable cleanup level, then no further analysis is required.

(9) Testing for n-hexane is required when VPH analysis is performed for Method B or C. In this case, the concentration of n-hexane should be deleted from its respective fraction to avoid double-counting its concentration. n-Hexane's contribution to overall toxicity is then evaluated using its own reference dose.

(10) Volatile fuel additives (such as dibromoethane, 1 - 2 (EDB) (CAS# 106-93-4) and dichloroethane, 1 - 2 (EDC) (CAS#

107-06-2)) must be part of a volatile organics analysis (VOA) of GRO contaminated ground water. If any is found in ground water, then the contaminated soil must also be tested for these chemicals.

(11) Methyl tertiary-butyl ether (MTBE) (CAS# 1634-04-4) must be analyzed in GRO contaminated ground water. If any is found in ground water, then the contaminated soil must also be tested for MTBE.

(12)(a) For automotive gasoline where the release occurred prior to 1996 (when "leaded gasoline" was used), testing for lead is required unless it can be demonstrated that lead was not part of the release. If this demonstration cannot be made, testing is required in a sufficient number of samples to determine whether lead is present at concentrations of concern. Other additives and blending compounds of potential environmental significance may need to be considered for testing, including: tertiary-butyl alcohol (TBA); tertiary-amyl methyl ether (TAME); ethyl tertiary-butyl ether (ETBE); ethanol; and methanol. Contact the department for additional testing recommendations regarding these and other additives and blending compounds.

(b) For aviation gasoline, racing fuels and similar products, testing is required for likely fuel additives (especially lead) and likely blending compounds, no matter when the release occurred.

(13) Testing for carcinogenic PAHs is required for DRO and heavy oils, except for the following products for which adequate information exists to indicate their absence: Diesel No. 1 and 2, home heating oil, kerosene, jet fuels, and electrical insulating mineral oils. The carcinogenic PAHs include benzo(a)pyrene, chrysene, dibenzo(a,h)anthracene, indeno(1,2,3-cd)pyrene, benzo(k)fluoranthene, benzo(a)anthracene, and benzo(b)fluoranthene.

(14)(a) Except as noted in (b) and (c), testing for the noncarcinogenic PAHs, including the "naphthalenes" (naphthalene, 1-methyl-naphthalene, and 2-methyl-naphthalene) is not required when using Method A cleanup levels, because they are included in the TPH cleanup level.

(b) Testing of soil for naphthalenes is required under Methods B and C when the inhalation exposure pathway is evaluated.

(c) If naphthalenes are found in ground water, then the soil must also be tested for naphthalenes.

(15) Testing for PCBs is required unless it can be demonstrated that: (1) The release originated from an electrical device manufactured for use in the United States after July 1, 1979; (2) oil containing PCBs was never used in the equipment suspected as the source of the release (examples of equipment where PCBs are likely to be found include transformers, electric motors, hydraulic systems, heat transfer systems, electromagnets, compressors, capacitors, switches and miscellaneous other electrical devices); or, (3) the oil released was recently tested and did not contain PCBs.

(16) Testing for other possible chemical contaminants may be required based on site-specific information.

(17) The analytical methods NWTPH-Gx, NWTPH-Dx, NWTPH-HCID, VPH, and EPH are methods published by the department of ecology and available on the department's internet web site: http://www.ecy.wa.gov/programs/tcp/cleanup.html.

[Statutory Authority: RCW 70.105D.030(2). 07-21-065 (Order 06-10), § 173-340-900, filed 10/12/07, effective 11/12/07. Statutory Authority: Chapter 70.105D RCW. 01-05-024 (Order 97-09A), § 173-340-900, filed 2/12/01, effective 8/15/01.]

Reviser's note: The brackets and enclosed material in the text of the above section occurred in the copy filed by the agency.

Chapter 173-400 WAC

GENERAL REGULATIONS FOR AIR POLLUTION SOURCES

WAC

WAC 173-400-030 Definitions. Except as provided elsewhere in this chapter, the following definitions apply throughout the chapter:

(1) **"Actual emissions"** means the actual rate of emissions of a pollutant from an emission unit, as determined in accordance with (a) through (c) of this subsection.

(a) In general, actual emissions as of a particular date shall equal the average rate, in tons per year, at which the emissions unit actually emitted the pollutant during a two-year period which precedes the particular date and which is representative of normal source operation. Ecology or an authority shall allow the use of a different time period upon a determination that it is more representative of normal source operation. Actual emissions shall be calculated using the emissions unit's actual operating hours, production rates, and types of materials processed, stored, or combusted during the selected time period.

(b) Ecology or an authority may presume that source-specific allowable emissions for the unit are equivalent to the actual emissions of the emissions unit.

(c) For any emissions unit which has not begun normal operations on the particular date, actual emissions shall equal the potential to emit of the emissions unit on that date.

(2) **"Adverse impact on visibility"** is defined in WAC 173-400-117.

(3) **"Air contaminant"** means dust, fumes, mist, smoke, other particulate matter, vapor, gas, odorous substance, or any combination thereof. "Air pollutant" means the same as "air contaminant."

(4) **"Air pollution"** means the presence in the outdoor atmosphere of one or more air contaminants in sufficient quantities, and of such characteristics and duration as is, or is likely to be, injurious to human health, plant or animal life, or property, or which unreasonably interferes with enjoyment of life and property. For the purposes of this chapter, air pollution shall not include air contaminants emitted in compliance with chapter 17.21 RCW, the Washington Pesticide Application Act, which regulates the application and control of the use of various pesticides.

(5) **"Allowable emissions"** means the emission rate of a source calculated using the maximum rated capacity of the source (unless the source is subject to federally enforceable limits which restrict the operating rate, or hours of operation, or both) and the most stringent of the following:

(a) The applicable standards as in 40 CFR Part 60, 61, 62, or 63;

(b) Any applicable SIP emissions limitation including those with a future compliance date; or

(c) The emissions rate specified as a federally enforceable approval condition, including those with a future compliance date.

(6) **"Ambient air"** means the surrounding outside air.

(7) **"Ambient air quality standard"** means an established concentration, exposure time, and frequency of occurrence of air contaminant(s) in the ambient air which shall not be exceeded.

(8) **"Approval order"** is defined in **"order of approval."**

(9) **"Attainment area"** means a geographic area designated by EPA at 40 CFR Part 81 as having attained the National Ambient Air Quality Standard for a given criteria pollutant.

(10) **"Authority"** means any air pollution control agency whose jurisdictional boundaries are coextensive with the boundaries of one or more counties.

(11) **"Begin actual construction"** means, in general, initiation of physical on-site construction activities on an emission unit which are of a permanent nature. Such activities include, but are not limited to, installation of building supports and foundations, laying underground pipe work and construction of permanent storage structures. With respect to a change in method of operations, this term refers to those on-site activities other than preparatory activities which mark the initiation of the change.

(12) **"Best available control technology (BACT)"** means an emission limitation based on the maximum degree of reduction for each air pollutant subject to regulation under chapter 70.94 RCW emitted from or which results from any new or modified stationary source, which the permitting authority, on a case-by-case basis, taking into account energy, environmental, and economic impacts and other costs, determines is achievable for such source or modification through application of production processes and available methods, systems, and techniques, including fuel cleaning, clean fuels, or treatment or innovative fuel combustion techniques for control of each such pollutant. In no event shall application of the "best available control technology" result in emissions of any pollutants which will exceed the emissions allowed by any applicable standard under 40 CFR Part 60 and Part 61. Emissions from any source utilizing clean fuels, or any other means, to comply with this paragraph shall not be allowed to increase above levels that would have been required under the definition of BACT in the Federal Clean Air Act as it existed prior to enactment of the Clean Air Act Amendments of 1990.

(13) **"Best available retrofit technology (BART)"** means an emission limitation based on the degree of reduction achievable through the application of the best system of continuous emission reduction for each pollutant which is emitted by an existing stationary facility. The emission limitation must be established, on a case-by-case basis, taking into consideration the technology available, the costs of compliance, the energy and nonair quality environmental impacts of compliance, any pollution control equipment in use or in existence at the source, the remaining useful life of the source, and the degree of improvement in visibility which may reasonably be anticipated to result from the use of such technology.

(14) **"Bubble"** means a set of emission limits which allows an increase in emissions from a given emissions unit in exchange for a decrease in emissions from another emissions unit, pursuant to RCW 70.94.155 and WAC 173-400-120.

(15) **"Capacity factor"** means the ratio of the average load on equipment or a machine for the period of time considered, to the manufacturer's capacity rating of the machine or equipment.

(16) **"Class I area"** means any area designated under section 162 or 164 of the Federal Clean Air Act as a Class I area. The following areas are the Class I areas in Washington state:

(a) Alpine Lakes Wilderness;

(b) Glacier Peak Wilderness;

(c) Goat Rocks Wilderness;

(d) Mount Adams Wilderness;

(e) Mount Rainier National Park;

(f) North Cascades National Park;

(g) Olympic National Park;

(h) Pasayten Wilderness; and

(i) Spokane Indian Reservation.

(17) **"Combustion and incineration units"** means units using combustion for waste disposal, steam production, chemical recovery or other process requirements; but excludes outdoor burning.

(18)(a) **"Commence"** as applied to construction, means that the owner or operator has all the necessary preconstruction approvals or permits and either has:

(i) Begun, or caused to begin, a continuous program of actual on-site construction of the source, to be completed within a reasonable time; or

(ii) Entered into binding agreements or contractual obligations, which cannot be cancelled or modified without substantial loss to the owner or operator, to undertake a program of actual construction of the source to be completed within a reasonable time.

(b) For the purposes of this definition, "necessary preconstruction approvals" means those permits or orders of approval required under federal air quality control laws and regulations, including state, local and federal regulations and orders contained in the SIP.

(19) **"Concealment"** means any action taken to reduce the observed or measured concentrations of a pollutant in a gaseous effluent while, in fact, not reducing the total amount of pollutant discharged.

(20) **"Criteria pollutant"** means a pollutant for which there is established a National Ambient Air Quality Standard at 40 CFR Part 50. The criteria pollutants are carbon monoxide (CO), particulate matter, ozone (O_3) sulfur dioxide (SO_2), lead (Pb), and nitrogen dioxide (NO_2).

(21) **"Director"** means director of the Washington state department of ecology or duly authorized representative.

(22) **"Dispersion technique"** means a method which attempts to affect the concentration of a pollutant in the ambient air other than by the use of pollution abatement equipment or integral process pollution controls.

(23) **"Ecology"** means the Washington state department of ecology.

(24) **"Emission"** means a release of air contaminants into the ambient air.

(25) **"Emission reduction credit (ERC)"** means a credit granted pursuant to WAC 173-400-131. This is a voluntary reduction in emissions.

(26) **"Emission standard"** and **"emission limitation"** means a requirement established under the Federal Clean Air Act or chapter 70.94 RCW which limits the quantity, rate, or concentration of emissions of air contaminants on a continuous basis, including any requirement relating to the operation or maintenance of a source to assure continuous emission

reduction and any design, equipment work practice, or operational standard adopted under the Federal Clean Air Act or chapter 70.94 RCW.

(27) **"Emission threshold"** means an emission of a listed air contaminant at or above the following rates:

Air Contaminant	Annual Emission Rate
Carbon monoxide:	100 tons per year (tpy)
Nitrogen oxides:	40 tpy
Sulfur dioxide:	40 tpy
Particulate matter (PM):	25 tpy of PM emissions 15 tpy of PM-10 emissions
Volatile organic compounds:	40 tpy
Fluorides:	3 tpy
Lead:	0.6 tpy
Sulfuric acid mist:	7 tpy
Hydrogen sulfide (H_2S):	10 tpy
Total reduced sulfur (including H_2S):	10 tpy
Reduced sulfur compounds (including H_2S):	10 tpy

(28) **"Emissions unit"** or **"emission unit"** means any part of a stationary source or source which emits or would have the potential to emit any pollutant subject to regulation under the Federal Clean Air Act, chapter 70.94 or 70.98 RCW.

(29) **"Excess emissions"** means emissions of an air pollutant in excess of any applicable emission standard.

(30) **"Excess stack height"** means that portion of a stack which exceeds the greater of sixty-five meters or the calculated stack height described in WAC 173-400-200(2).

(31) **"Existing stationary facility (Facility)"** is defined in WAC 173-400-151.

(32) **"Federal Clean Air Act (FCAA)"** means the Federal Clean Air Act, also known as Public Law 88-206, 77 Stat. 392, December 17, 1963, 42 U.S.C. 7401 et seq., as last amended by the Clean Air Act Amendments of 1990, P.L. 101-549, November 15, 1990.

(33) **"Federal Class I area"** means any federal land that is classified or reclassified Class I. The following areas are federal Class I areas in Washington state:

(a) Alpine Lakes Wilderness;
(b) Glacier Peak Wilderness;
(c) Goat Rocks Wilderness;
(d) Mount Adams Wilderness;
(e) Mount Rainier National Park;
(f) North Cascades National Park;
(g) Olympic National Park; and
(h) Pasayten Wilderness.

(34) **"Federal land manager"** means the secretary of the department with authority over federal lands in the United States. This includes, but is not limited to, the U.S. Department of the Interior - National Park Service, the U.S. Department of the Interior - U.S. Fish and Wildlife Service, the U.S. Department of Agriculture - Forest Service, and/or the U.S. Department of the Interior - Bureau of Land Management.

(35) **"Federally enforceable"** means all limitations and conditions which are enforceable by EPA, including those requirements developed under 40 CFR Parts 60, 61, 62 and 63, requirements established within the Washington SIP, requirements within any approval or order established under 40 CFR 52.21 or under a SIP approved new source review regulation, and emissions limitation orders issued under WAC 173-400-091.

(36) **"Fossil fuel-fired steam generator"** means a device, furnace, or boiler used in the process of burning fossil fuel for the primary purpose of producing steam by heat transfer.

(37) **"Fugitive dust"** means a particulate emission made airborne by forces of wind, man's activity, or both. Unpaved roads, construction sites, and tilled land are examples of areas that originate fugitive dust. Fugitive dust is a type of fugitive emission.

(38) **"Fugitive emissions"** means emissions which could not reasonably pass through a stack, chimney, vent, or other functionally equivalent opening.

(39) **"General process unit"** means an emissions unit using a procedure or a combination of procedures for the purpose of causing a change in material by either chemical or physical means, excluding combustion.

(40) **"Good engineering practice (GEP)"** refers to a calculated stack height based on the equation specified in WAC 173-400-200 (2)(a)(ii).

(41) **"Incinerator"** means a furnace used primarily for the thermal destruction of waste.

(42) **"In operation"** means engaged in activity related to the primary design function of the source.

(43) **"Lowest achievable emission rate (LAER)"** means for any source that rate of emissions which reflects the more stringent of:

(a) The most stringent emission limitation which is contained in the implementation plan of any state for such class or category of source, unless the owner or operator of the proposed new or modified source demonstrates that such limitations are not achievable; or

(b) The most stringent emission limitation which is achieved in practice by such class or category of source.

In no event shall the application of this term allow a proposed new or modified source to emit any pollutant in excess of the amount allowable under applicable New Source Performance Standards.

(44) **"Mandatory Class I federal area"** means any area defined in Section 162(a) of the Federal Clean Air Act. The following areas are the mandatory Class I federal areas in Washington state:

(a) Alpine Lakes Wilderness;
(b) Glacier Peak Wilderness;
(c) Goat Rocks Wilderness;
(d) Mount Adams Wilderness;
(e) Mount Rainier National Park;
(f) North Cascades National Park;
(g) Olympic National Park; and
(h) Pasayten Wilderness;

(45) **"Masking"** means the mixing of a chemically nonreactive control agent with a malodorous gaseous effluent to change the perceived odor.

(46) **"Materials handling"** means the handling, transporting, loading, unloading, storage, and transfer of materials with no significant chemical or physical alteration.

(47) **"Modification"** means any physical change in, or change in the method of operation of, a stationary source that increases the amount of any air contaminant emitted by such source or that results in the emissions of any air contaminant not previously emitted. The term modification shall be construed consistent with the definition of modification in Section 7411, Title 42, United States Code, and with rules implementing that section.

(48) **"National Ambient Air Quality Standard (NAAQS)"** means an ambient air quality standard set by EPA at 40 CFR Part 50 and includes standards for carbon monoxide (CO), particulate matter, ozone (O_3), sulfur dioxide (SO_2), lead (Pb), and nitrogen dioxide (NO_2).

(49) **"National Emission Standards for Hazardous Air Pollutants (NESHAPS)"** means the federal rules in 40 CFR Part 61.

(50) **"National Emission Standards for Hazardous Air Pollutants for Source Categories"** means the federal rules in 40 CFR Part 63.

(51) **"Natural conditions"** means naturally occurring phenomena that reduce visibility as measured in terms of light extinction, visual range, contrast, or coloration.

(52) **"New source"** means:

(a) The construction or modification of a stationary source that increases the amount of any air contaminant emitted by such source or that results in the emission of any air contaminant not previously emitted; and

(b) Any other project that constitutes a new source under the Federal Clean Air Act.

(53) **"New Source Performance Standards (NSPS)"** means the federal rules in 40 CFR Part 60.

(54) **"Nonattainment area"** means a geographic area designated by EPA at 40 CFR Part 81 as exceeding a National Ambient Air Quality Standard (NAAQS) for a given criteria pollutant. An area is nonattainment only for the pollutants for which the area has been designated nonattainment.

(55) **"Nonroad engine"** means:

(a) Except as discussed in (b) of this subsection, a nonroad engine is any internal combustion engine:

(i) In or on a piece of equipment that is self-propelled or serves a dual purpose by both propelling itself and performing another function (such as garden tractors, off-highway mobile cranes and bulldozers); or

(ii) In or on a piece of equipment that is intended to be propelled while performing its function (such as lawnmowers and string trimmers); or

(iii) That, by itself or in or on a piece of equipment, is portable or transportable, meaning designed to be and capable of being carried or moved from one location to another. Indicia of transportability include, but are not limited to, wheels, skids, carrying handles, dolly, trailer, or platform.

(b) An internal combustion engine is not a nonroad engine if:

(i) The engine is used to propel a motor vehicle or a vehicle used solely for competition, or is subject to standards promulgated under section 202 of the Federal Clean Air Act; or

(ii) The engine is regulated by a New Source Performance Standard promulgated under section 111 of the Federal Clean Air Act; or

(iii) The engine otherwise included in (a)(iii) of this subsection remains or will remain at a location for more than twelve consecutive months or a shorter period of time for an engine located at a seasonal source. A location is any single site at a building, structure, facility, or installation. Any engine (or engines) that replaces an engine at a location and that is intended to perform the same or similar function as the engine replaced will be included in calculating the consecutive time period. An engine located at a seasonal source is an engine that remains at a seasonal source during the full annual operating period of the seasonal source. A seasonal source is a stationary source that remains in a single location on a permanent basis (i.e., at least two years) and that operates at that single location approximately three months (or more) each year. This paragraph does not apply to an engine after the engine is removed from the location.

(56) **"Notice of construction application"** means a written application to allow construction of a new source, modification of an existing stationary source or replacement or substantial alteration of control technology at an existing stationary source.

(57) **"Opacity"** means the degree to which an object seen through a plume is obscured, stated as a percentage.

(58) **"Outdoor burning"** means the combustion of material in an open fire or in an outdoor container, without providing for the control of combustion or the control of the emissions from the combustion. Wood waste disposal in wigwam burners is not considered outdoor burning.

(59) **"Order"** means any order issued by ecology or a local air authority pursuant to chapter 70.94 RCW, including, but not limited to RCW 70.94.332, 70.94.152, 70.94.153, 70.94.154, and 70.94.141(3), and includes, where used in the generic sense, the terms order, corrective action order, order of approval, and regulatory order.

(60) **"Order of approval"** or **"approval order"** means a regulatory order issued by a permitting authority to approve the notice of construction application for a proposed new source or modification, or the replacement or substantial alteration of control technology at an existing stationary source.

(61) **"Ozone depleting substance"** means any substance listed in Appendices A and B to Subpart A of 40 CFR Part 82.

(62) **"Particulate matter"** or **"particulates"** means any airborne finely divided solid or liquid material with an aerodynamic diameter smaller than 100 micrometers.

(63) **"Particulate matter emissions"** means all finely divided solid or liquid material, other than uncombined water, emitted to the ambient air as measured by applicable reference methods, or an equivalent or alternative method specified in Title 40, chapter I of the Code of Federal Regulations or by a test method specified in the SIP.

(64) **"Parts per million (ppm)"** means parts of a contaminant per million parts of gas, by volume, exclusive of water or particulates.

(65) **"Permitting authority"** means ecology or the local air pollution control authority with jurisdiction over the source.

(66) **"Person"** means an individual, firm, public or private corporation, association, partnership, political subdivision, municipality, or government agency.

(67) **"PM-10"** means particulate matter with an aerodynamic diameter less than or equal to a nominal 10 micrometers as measured by a reference method based on 40 CFR Part 50 Appendix J and designated in accordance with 40 CFR Part 53 or by an equivalent method designated in accordance with 40 CFR Part 53.

(68) **"PM-10 emissions"** means finely divided solid or liquid material, including condensible particulate matter, with an aerodynamic diameter less than or equal to a nominal 10 micrometers emitted to the ambient air as measured by an applicable reference method, or an equivalent or alternate method, specified in Appendix M of 40 CFR Part 51 or by a test method specified in the SIP.

(69) **"Potential to emit"** means the maximum capacity of a source to emit a pollutant under its physical and operational design. Any physical or operational limitation on the capacity of the source to emit a pollutant, including air pollution control equipment and restrictions on hours of operation or on the type or amount of material combusted, stored, or processed, shall be treated as part of its design only if the limitation or the effect it would have on emissions is federally enforceable. Secondary emissions do not count in determining the potential to emit of a source.

(70) **"Prevention of significant deterioration (PSD)"** means the program in WAC 173-400-700 to 173-400-750.

(71) **"Projected width"** means that dimension of a structure determined from the frontal area of the structure, projected onto a plane perpendicular to a line between the center of the stack and the center of the building.

(72) **"Reasonably attributable"** means attributable by visual observation or any other technique the state deems appropriate.

(73) **"Reasonably available control technology (RACT)"** means the lowest emission limit that a particular source or source category is capable of meeting by the application of control technology that is reasonably available considering technological and economic feasibility. RACT is determined on a case-by-case basis for an individual source or source category taking into account the impact of the source upon air quality, the availability of additional controls, the emission reduction to be achieved by additional controls, the impact of additional controls on air quality, and the capital and operating costs of the additional controls. RACT requirements for any source or source category shall be adopted only after notice and opportunity for comment are afforded.

(74) **"Regulatory order"** means an order issued by ecology or permitting authority to an air contaminant source which applies to that source, any applicable provision of chapter 70.94 RCW, or the rules adopted thereunder, or, for sources regulated by a local air authority, the regulations of that authority.

(75) **"Secondary emissions"** means emissions which would occur as a result of the construction or operation of a major stationary source or major modification, but do not come from the major stationary source or major modification itself. Secondary emissions must be specific, well defined, quantifiable, and impact the same general area as the major stationary source or major modification which causes the secondary emissions. Secondary emissions may include, but are not limited to:

(a) Emissions from ships or trains located at the new or modified major stationary source; and

(b) Emissions from any off-site support facility which would not otherwise be constructed or increase its emissions as a result of the construction or operation of the major stationary source or major modification.

(76) **"Source"** means all of the emissions unit(s) including quantifiable fugitive emissions, that are located on one or more contiguous or adjacent properties, and are under the control of the same person or persons under common control, whose activities are ancillary to the production of a single product or functionally related groups of products.

(77) **"Source category"** means all sources of the same type or classification.

(78) **"Stack"** means any point in a source designed to emit solids, liquids, or gases into the air, including a pipe or duct.

(79) **"Stack height"** means the height of an emission point measured from the ground-level elevation at the base of the stack.

(80) **"Standard conditions"** means a temperature of 20° (68° F) and a pressure of 760 mm (29.92 inches) of mercury.

(81) **"State implementation plan (SIP)"** or **"Washington SIP"** means the Washington SIP in 40 CFR Part 52, subpart WW. The SIP contains state, local and federal regulations and orders, the state plan and compliance schedules approved and promulgated by EPA, for the purpose of implementing, maintaining, and enforcing the National Ambient Air Quality Standards.

(82) **"Stationary source"** means any building, structure, facility, or installation which emits or may emit any air contaminant. This term does not include emissions resulting directly from an internal combustion engine for transportation purposes or from a nonroad engine or nonroad vehicle as defined in Section 216(11) of the Federal Clean Air Act.

(83) **"Sulfuric acid plant"** means any facility producing sulfuric acid by the contact process by burning elemental sulfur, alkylation acid, hydrogen sulfide, or acid sludge.

(84) **"Synthetic minor"** means any source whose potential to emit has been limited below applicable thresholds by means of a federally enforceable order, rule, or approval condition.

(85) **"Temporary source"** is a source of emissions (such as a nonroad engine) which is operated at a particular site for a limited period of time. A temporary source may or may not be a stationary source or a source as defined in subsections (76) and (82) of this section, respectively.

(86) **"Total reduced sulfur (TRS)"** means the sum of the sulfur compounds hydrogen sulfide, mercaptans, dimethyl sulfide, dimethyl disulfide, and any other organic sulfides emitted and measured by EPA method 16 in Appendix A to 40 CFR Part 60 or an EPA approved equivalent method and expressed as hydrogen sulfide.

(87) **"Total suspended particulate"** means particulate matter as measured by the method described in 40 CFR Part 50 Appendix B.

(88) **"Toxic air pollutant (TAP)"** or **"toxic air contaminant"** means any Class A or B toxic air pollutant listed in WAC 173-460-150 and 173-460-160. The term toxic air pollutant may include particulate matter and volatile organic

compounds if an individual substance or a group of substances within either of these classes is listed in WAC 173-460-150 and/or 173-460-160. The term toxic air pollutant does not include particulate matter and volatile organic compounds as generic classes of compounds.

(89) **"Unclassifiable area"** means an area that cannot be designated attainment or nonattainment on the basis of available information as meeting or not meeting the National Ambient Air Quality Standard for the criteria pollutant and that is listed by EPA at 40 CFR Part 81.

(90) **"United States Environmental Protection Agency (USEPA)"** shall be referred to as EPA.

(91) **"Visibility impairment"** means any humanly perceptible change in visibility (light extinction, visual range, contrast, or coloration) from that which would have existed under natural conditions.

(92) **"Volatile organic compound (VOC)"** means any carbon compound that participates in atmospheric photochemical reactions.

(a) Exceptions. The following compounds are not a VOC: Acetone; carbon monoxide; carbon dioxide; carbonic acid; metallic carbides or carbonates; ammonium carbonate, methane; ethane; methylene chloride (dichloromethane); 1,1,1-trichloroethane (methyl chloroform); 1,1,2-trichloro-1,2,2-trifluoroethane (CFC-113); trichlorofluoromethane (CFC-11); dichlorodifluoromethane (CFC-12); chlorodifluoromethane (HCFC-22); trifluoromethane (HFC-23); 1,2-dichloro 1,1,2,2-tetrafluoroethane (CFC-114); chloropentafluoroethane (CFC-115); 1,1,1-trifluoro 2,2-dichloroethane (HCFC-123); 1,1,1,2-tetrafluoroethane (HFC-134a); 1,1-dichloro 1-fluoroethane (HCFC-141b); 1-chloro 1,1-difluoroethane (HCFC-142b); 2-chloro 1,1,1,2-tetrafluoroethane (HCFC-124); pentafluoroethane (HFC-125); 1,1,2,2-tetrafluoroethane (HFC-134); 1,1,1-trifluoroethane (HFC-143a); 1,1-difluoroethane (HFC-152a); parachlorobenzotrifluoride (PCBTF); cyclic, branched, or linear completely methylated siloxanes; perchloroethylene (tetrachloroethylene); 3,3-dichloro-1,1,1,2,2-pentafluoropropane (HCFC-225ca); 1,3-dichloro-1,1,2,2,3-pentafluoropropane (HCFC-225cb); 1,1,1,2,3,4,4,5,5,5-decafluoropentane (HFC 43-10mee); difluoromethane (HFC-32); ethylfluoride (HFC-161); 1,1,1,3,3,3-hexafluoropropane (HFC-236fa); 1,1,2,2,3-pentafluoropropane (HFC-245ca); 1,1,2,3,3-pentafluoropropane (HFC-245ea); 1,1,1,2,3-pentafluoropropane (HFC-245eb); 1,1,1,3,3-pentafluoropropane (HFC-245fa); 1,1,1,2,3,3-hexafluoropropane (HFC-236ea); 1,1,1,3,3-pentafluorobutane (HFC-365mfc); chlorofluoromethane (HCFC-31); 1 chloro-1-fluoroethane (HCFC-151a); 1,2-dichloro-1,1,2-trifluoroethane (HCFC-123a); 1,1,1,2,2,3,3,4,4-nonafluoro-4-methoxy-butane ($C_4F_9OCH_3$); 2-(difluoromethoxymethyl)-1,1,1,2,3,3,3-heptafluoropropane ($(CF_3)_2CFCF_2OCH_3$); 1-ethoxy-1,1,2,2,3,3,4,4,4-nonafluorobutane ($C_4F_9OC_2H_5$); 2-(ethoxydifluoromethyl)-1,1,1,2,3,3,3-heptafluoropropane($(CF_3)_2CFCF_2OC_2H_5$); methyl acetate and perfluorocarbon compounds that fall into these classes:

(i) Cyclic, branched, or linear completely fluorinated alkanes;

(ii) Cyclic, branched, or linear completely fluorinated ethers with no unsaturations;

(iii) Cyclic, branched, or linear completely fluorinated tertiary amines with no unsaturations; and

(iv) Sulfur containing perfluorocarbons with no unsaturations and with sulfur bonds only to carbon and fluorine.

(b) For the purpose of determining compliance with emission limits, VOC will be measured by the appropriate methods in 40 CFR Part 60 Appendix A. Where the method also measures compounds with negligible photochemical reactivity, these negligibly-reactive compounds may be excluded as VOC if the amount of the compounds is accurately quantified, and the exclusion is approved by ecology, the authority, or EPA.

(c) As a precondition to excluding these negligibly-reactive compounds as VOC or at any time thereafter, ecology or the authority may require an owner or operator to provide monitoring or testing methods and results demonstrating, to the satisfaction of ecology or the authority, the amount of negligibly-reactive compounds in the source's emissions.

[Statutory Authority: RCW 70.94.395 and 70.94.331. 07-11-039 (Order 06-03), § 173-400-030, filed 5/8/07, effective 6/8/07. Statutory Authority: RCW 70.94.152. 05-03-033 (Order 03-07), § 173-400-030, filed 1/10/05, effective 2/10/05. Statutory Authority: Chapter 70.94 RCW, RCW 70.94.141, [70.94.]152, [70.94.]331, [70.94.]510 and 43.21A.080. 01-17-062 (Order 99-06), § 173-400-030, filed 8/15/01, effective 9/15/01. Statutory Authority: RCW 70.94.152. 98-01-183 (Order 96-01), § 173-400-030, filed 12/23/97, effective 1/23/98. Statutory Authority: Chapter 70.94 RCW. 96-19-054 (Order 94-35), § 173-400-030, filed 9/13/96, effective 10/14/96; 95-07-126 (Order 93-40), § 173-400-030, filed 3/22/95, effective 4/22/95; 93-18-007 (Order 93-03), § 173-400-030, filed 8/20/93, effective 9/20/93; 91-05-064 (Order 90-06), § 173-400-030, filed 2/19/91, effective 3/22/91. Statutory Authority: RCW 70.94.331, 70.94.395 and 70.94.510. 85-06-046 (Order 84-48), § 173-400-030, filed 3/6/85. Statutory Authority: Chapters 43.21A and 70.94 RCW. 83-09-036 (Order DE 83-13), § 173-400-030, filed 4/15/83. Statutory Authority: RCW 70.94.331. 80-11-059 (Order DE 80-14), § 173-400-030, filed 8/20/80. Statutory Authority: RCW 43.21A.080 and 70.94.331. 79-06-012 (Order DE 78-21), § 173-400-030, filed 5/8/79; Order DE 76-38, § 173-400-030, filed 12/21/76. Formerly WAC 18-04-030.]

WAC 173-400-035 Portable and temporary sources. (1) For portable sources which locate temporarily at particular sites, the owner(s) or operator(s) shall be allowed to operate at the temporary location providing that the owner(s) or operator(s) notifies **ecology** or the **authority** of intent to operate at the new location at least thirty days prior to starting the operation, and supplies sufficient information to enable **ecology** or the **authority** to determine that the operation will comply with the **emission standards** for a **new source,** and will not cause a violation of applicable **ambient air quality standards** and, if in a **nonattainment area,** will not interfere with scheduled attainment of **ambient standards.** The permission to operate shall be for a limited period of time (one year or less) and **ecology** or the **authority** may set specific conditions for operation during that period. A temporary source shall be required to comply with all applicable **emission standards.** A temporary or portable source that is considered a **major stationary source** within the meaning of WAC 173-400-113 must also comply with the requirements in WAC 173-400-141.

(2) This section applies statewide except where an authority has its own rule regulating such sources.

(3) Fees relating to this section can be found in chapter 173-455 WAC.

[Statutory Authority: RCW 70.94.181, [70.94.]152, [70.94.]331, [70.94.]-650, [70.94.]745, [70.94.]892, [70.94.]011. 07-19-005 (Order 07-10), § 173-

400-035, filed 9/6/07, effective 10/7/07. Statutory Authority: Chapter 70.94 RCW, RCW 70.94.141, [70.94.]152, [70.94.]331, [70.94.]510 and 43.21A.-080. 01-17-062 (Order 99-06), § 173-400-035, filed 8/15/01, effective 9/15/01.]

WAC 173-400-045 Control technology fees. Fees can be found in chapter 173-455 WAC.

[Statutory Authority: RCW 70.94.181, [70.94.]152, [70.94.]331, [70.94.]-650, [70.94.]745, [70.94.]892, [70.94.]011. 07-19-005 (Order 07-10), § 173-400-045, filed 9/6/07, effective 10/7/07. Statutory Authority: Chapter 70.94 RCW. 96-19-054 (Order 94-35), § 173-400-045, filed 9/13/96, effective 10/14/96. Statutory Authority: RCW 70.94.153 and 70.94.154. 94-17-070, § 173-400-045, filed 8/15/94, effective 9/15/94.]

WAC 173-400-075 Emission standards for sources emitting hazardous air pollutants. (1) National emission standards for hazardous air pollutants (NESHAPs). 40 CFR Part 61 and Appendices in effect on October 1, 2006, is adopted by reference. The term "administrator" in 40 CFR Part 61 includes the permitting authority.

(2) The permitting authority may conduct source tests and require access to records, books, files, and other information specific to the control, recovery, or release of those pollutants regulated under 40 CFR Parts 61, 62, 63 and/or 65 in order to determine the status of compliance of sources of these contaminants and to carry out its enforcement responsibilities.

(3) Source testing, monitoring, and analytical methods for sources of hazardous air pollutants must conform with the requirements of 40 CFR Parts 61, 62, 63 and/or 65.

(4) This section does not apply to any source operating under a waiver granted by EPA or an exemption granted by the president of the United States.

(5) Where EPA has delegated to the permitting authority, the authority to receive reports under 40 CFR Parts 61 or 63, from the affected facility in lieu of providing such report to EPA, the affected facility is required to provide such reports only to the permitting authority unless otherwise requested in writing by the permitting authority or EPA.

(6) **Maximum achievable control technology (MACT) standards.** MACT standards are officially known as National Emission Standards for Hazardous Air Pollutants for Source Categories.

(a) Adopt by reference.

40 CFR Part 63 and Appendices in effect on October 1, 2006, is adopted by reference. Exceptions are listed in (6)(b) of this section.

The following list of subparts to 40 CFR 63 which are shown as blank or reserved as of the date listed above, is provided for informational purposes only: Subparts K, P, V, Z, FF, NN, ZZ, AAA, BBB, FFF, KKK, SSS, WWW, YYY, ZZZ, BBBB, LLLL, and OOOOO.

(b) Exceptions to adopting 40 CFR Part 63 by reference.

(i) The term "administrator" in 40 CFR Part 63 includes the permitting authority.

(ii) The following subparts of 40 CFR Part 63 are not adopted by reference:

(A) Subpart C: List of Hazardous Air Pollutants, Petition Process, Lesser Quantity Designations, Source Category List.

(B) Subpart E: Approval of State Programs and Delegation of Federal Authorities.

(C) Subpart M: National Perchloroethylene Emission Standards for Dry Cleaning Facilities as it applies to nonmajor sources.

(7) **Consolidated requirements for the synthetic organic chemical manufacturing industry.** 40 CFR Part 65, in effect on October 1, 2006, is adopted by reference.

(8) **Emission standards for perchloroethylene dry cleaners.**

(a) **Applicability.**

(i) This section applies to all dry cleaning systems that use perchloroethylene (PCE). Table 1 divides dry cleaning facilities into 3 regulatory source categories by the type of equipment they use and the volume of PCE purchased. Each dry cleaning system must follow the applicable requirements in Table 1:

TABLE 1. PCE Dry Cleaner Source Categories

Dry cleaning facilities with:	Small area source purchases less than:	Large area source purchases between:	Major source purchases more than:
(1) Only Dry-to-Dry Machines	140 gallons PCE/yr	140-2,100 gallons PCE/yr	2,100 gallons PCE/yr
(2) Only Transfer Machines	200 gallons PCE/yr	200-1,800 gallons PCE/yr	1,800 gallons PCE/yr
(3) Both Dry-to-Dry and Transfer Machines	140 gallons PCE/yr	140-1,800 gallons PCE/yr	1,800 gallons PCE/yr

(ii) Major sources. In addition to the requirements in this section, a dry cleaning system that is considered a major source according to Table 1 must follow the federal requirements for major sources in 40 CFR Part 63, Subpart M (in effect on July 1, 2001).

(b) **Operations and maintenance record.**

(i) Each dry cleaning facility must keep an operations and maintenance record that is available upon request.

(ii) The information in the operations and maintenance record must be kept on-site for five years.

(iii) The operations and maintenance record must contain the following information:

(A) Inspection: The date and result of each inspection of the dry cleaning system. The inspection must note the condition of the system and the time any leaks were observed.

(B) Repair: The date, time, and result of each repair of the dry cleaning system.

(C) Refrigerated condenser information. If you have a refrigerated condenser, enter this information:

(I) The air temperature at the inlet of the refrigerated condenser;

(II) The air temperature at the outlet of the refrigerated condenser;

(III) The difference between the inlet and outlet temperature readings; and

(IV) The date the temperature was taken.

(D) Carbon adsorber information. If you have a carbon adsorber, enter this information:

(I) The concentration of PCE in the exhaust of the carbon adsorber; and

(II) The date the concentration was measured.

(E) A record of the volume of PCE purchased each month must be entered by the first of the following month;

(F) A record of the total amount of PCE purchased over the previous twelve months must be entered by the first of each month;

(G) All receipts of PCE purchases; and

(H) A record of any pollution prevention activities that have been accomplished.

(c) **General operations and maintenance requirements.**

(i) Drain cartridge filters in their housing or other sealed container for at least twenty-four hours before discarding the cartridges.

(ii) Close the door of each dry cleaning machine except when transferring articles to or from the machine.

(iii) Store all PCE, and wastes containing PCE, in a closed container with no perceptible leaks.

(iv) Operate and maintain the dry cleaning system according to the manufacturer's specifications and recommendations.

(v) Keep a copy on-site of the design specifications and operating manuals for all dry cleaning equipment.

(vi) Keep a copy on-site of the design specifications and operating manuals for all emissions control devices.

(vii) Route the PCE gas-vapor stream from the dry cleaning system through the applicable equipment in Table 2:

TABLE 2. Minimum PCE Vapor Vent Control Requirements

Small area source	Large area source	Major source
Refrigerated condenser for all machines installed after September 21, 1993.	Refrigerated condenser for all machines.	Refrigerated condenser with a carbon adsorber for all machines installed after September 21, 1993.

(d) **Inspection.**

(i) The owner or operator must inspect the dry cleaning system at a minimum following the requirements in Table 3:

TABLE 3. Minimum Inspection Frequency

Small area source	Large area source	Major source
Once every 2 weeks.	Once every week.	Once every week.

(ii) An inspection must include an examination of these components for condition and perceptible leaks:

(A) Hose and pipe connections, fittings, couplings, and valves;

(B) Door gaskets and seatings;

(C) Filter gaskets and seatings;

(D) Pumps;

(E) Solvent tanks and containers;

(F) Water separators;

(G) Muck cookers;

(H) Stills;

(I) Exhaust dampers; and

(J) Cartridge filter housings.

(iii) The dry cleaning system must be inspected while it is operating.

(iv) The date and result of each inspection must be entered in the operations and maintenance record at the time of the inspection.

(e) **Repair.**

(i) Leaks must be repaired within twenty-four hours of detection if repair parts are available.

(ii) If repair parts are unavailable, they must be ordered within two working days of detecting the leak.

(iii) Repair parts must be installed as soon as possible, and no later than five working days after arrival.

(iv) The date and time each leak was discovered must be entered in the operations and maintenance record.

(v) The date, time, and result of each repair must be entered in the operations and maintenance record at the time of the repair.

(f) **Requirements for systems with refrigerated condensers.** A dry cleaning system using a refrigerated condenser must meet all of the following requirements:

(i) Outlet air temperature.

(A) Each week the air temperature sensor at the outlet of the refrigerated condenser must be checked.

(B) The air temperature at the outlet of the refrigerated condenser must be less than or equal to 45°F (7.2°C) during the cool-down period.

(C) The air temperature must be entered in the operations and maintenance record manual at the time it is checked.

(D) The air temperature sensor must meet these requirements:

(I) An air temperature sensor must be permanently installed on a dry-to-dry machine, dryer or reclaimer at the outlet of the refrigerated condenser. The air temperature sensor must be installed by September 23, 1996, if the dry cleaning system was constructed before December 9, 1991.

(II) The air temperature sensor must be accurate to within 2°F (1.1°C).

(III) The air temperature sensor must be designed to measure at least a temperature range from 32°F (0°C) to 120°F (48.9°C); and

(IV) The air temperature sensor must be labeled "RC outlet."

(ii) Inlet air temperature.

(A) Each week the air temperature sensor at the inlet of the refrigerated condenser installed on a washer must be checked.

(B) The inlet air temperature must be entered in the operations and maintenance record at the time it is checked.

(C) The air temperature sensor must meet these requirements:

(I) An air temperature sensor must be permanently installed on a washer at the inlet of the refrigerated con-

denser. The air temperature sensor must be installed by September 23, 1996, if the dry cleaning system was constructed before December 9, 1991.

(II) The air temperature sensor must be accurate to within 2°F (1.1°C).

(III) The air temperature sensor must be designed to measure at least a temperature range from 32°F (0°C) to 120°F (48.9°C).

(IV) The air temperature sensor must be labeled "RC inlet."

(iii) For a refrigerated condenser used on the washer unit of a transfer system, the following are additional requirements:

(A) Each week the difference between the air temperature at the inlet and outlet of the refrigerated condenser must be calculated.

(B) The difference between the air temperature at the inlet and outlet of a refrigerated condenser installed on a washer must be greater than or equal to 20°F (11.1°C).

(C) The difference between the inlet and outlet air temperature must be entered in the operations and maintenance record each time it is checked.

(iv) A converted machine with a refrigerated condenser must be operated with a diverter valve that prevents air drawn into the dry cleaning machine from passing through the refrigerated condenser when the door of the machine is open;

(v) The refrigerated condenser must not vent the air-PCE gas-vapor stream while the dry cleaning machine drum is rotating or, if installed on a washer, until the washer door is opened; and

(vi) The refrigerated condenser in a transfer machine may not be coupled with any other equipment.

(g) **Requirements for systems with carbon adsorbers.** A dry cleaning system using a carbon adsorber must meet all of the following requirements:

(i) Each week the concentration of PCE in the exhaust of the carbon adsorber must be measured at the outlet of the carbon adsorber using a colorimetric detector tube.

(ii) The concentration of PCE must be written in the operations and maintenance record each time the concentration is checked.

(iii) If the dry cleaning system was constructed before December 9, 1991, monitoring must begin by September 23, 1996.

(iv) The colorimetric tube must meet these requirements:

(A) The colorimetric tube must be able to measure a concentration of 100 parts per million of PCE in air.

(B) The colorimetric tube must be accurate to within 25 parts per million.

(C) The concentration of PCE in the exhaust of the carbon adsorber must not exceed 100 ppm while the dry cleaning machine is venting to the carbon adsorber at the end of the last dry cleaning cycle prior to desorption of the carbon adsorber.

(v) If the dry cleaning system does not have a permanently fixed colorimetric tube, a sampling port must be provided within the exhaust outlet of the carbon adsorber. The sampling port must meet all of these requirements:

(A) The sampling port must be easily accessible;

(B) The sampling port must be located 8 stack or duct diameters downstream from a bend, expansion, contraction or outlet; and

(C) The sampling port must be 2 stack or duct diameters upstream from a bend, expansion, contraction, inlet or outlet.

[Statutory Authority: RCW 70.94.395 and 70.94.331. 07-11-039 (Order 06-03), § 173-400-075, filed 5/8/07, effective 6/8/07. Statutory Authority: RCW 70.94.152. 05-03-033 (Order 03-07), § 173-400-075, filed 1/10/05, effective 2/10/05. Statutory Authority: RCW 70.94.331. 02-15-068 (Order 02-09), § 173-400-075, filed 7/11/02, effective 8/11/02. Statutory Authority: Chapter 70.94 RCW, RCW 70.94.141, [70.94.]152, [70.94.]331, [70.94.]510 and 43.21A.080. 01-17-062 (Order 99-06), § 173-400-075, filed 8/15/01, effective 9/15/01. Statutory Authority: [RCW 70.94.331, 70.94.510 and chapter 70.94 RCW.] 00-23-130 (Order 98-27), § 173-400-075, filed 11/22/00, effective 12/23/00. Statutory Authority: RCW 70.94.860, 70.94.-510 and 70.94.331. 98-15-129 (Order 98-04), § 173-400-075, filed 7/21/98, effective 8/21/98. Statutory Authority: Chapter 70.94 RCW. 96-19-054 (Order 94-35), § 173-400-075, filed 9/13/96, effective 10/14/96; 93-05-044 (Order 92-34), § 173-400-075, filed 2/17/93, effective 3/20/93; 91-05-064 (Order 90-06), § 173-400-075, filed 2/19/91, effective 3/22/91. Statutory Authority: RCW 70.94.331, 70.94.395 and 70.94.510. 85-06-046 (Order 84-48), § 173-400-075, filed 3/6/85. Statutory Authority: Chapter 70.94 RCW. 84-10-019 (Order DE 84-8), § 173-400-075, filed 4/26/84. Statutory Authority: Chapters 43.21A and 70.94 RCW. 83-09-036 (Order DE 83-13), § 173-400-075, filed 4/15/83. Statutory Authority: RCW 70.94.331. 80-11-059 (Order DE 80-14), § 173-400-075, filed 8/20/80. Statutory Authority: RCW 43.21A.080 and 70.94.331. 79-06-012 (Order DE 78-21), § 173-400-075, filed 5/8/79; Order DE 76-38, § 173-400-075, filed 12/21/76. Formerly WAC 18-04-075.]

WAC 173-400-104 Registration fees. Fees can be found in chapter 173-455 WAC.

[Statutory Authority: RCW 70.94.181, [70.94.]152, [70.94.]331, [70.94.]-650, [70.94.]745, [70.94.]892, [70.94.]011. 07-19-005 (Order 07-10), § 173-400-104, filed 9/6/07, effective 10/7/07. Statutory Authority: RCW 70.94.-152. 05-03-033 (Order 03-07), § 173-400-104, filed 1/10/05, effective 2/10/05. Statutory Authority: [RCW 70.94.331, 70.94.510 and chapter 70.94 RCW.] 00-23-130 (Order 98-27), § 173-400-104, filed 11/22/00, effective 12/23/00. Statutory Authority: Chapter 70.94 RCW. 95-07-126 (Order 93-40), § 173-400-104, filed 3/22/95, effective 4/22/95.]

WAC 173-400-105 Records, monitoring, and reporting. The owner or operator of a source shall upon notification by the director of ecology, maintain records on the type and quantity of emissions from the source and other information deemed necessary to determine whether the source is in compliance with applicable emission limitations and control measures.

(1) Emission inventory. The owner(s) or operator(s) of any air contaminant source shall submit an inventory of emissions from the source each year. The inventory will include stack and fugitive emissions of particulate matter, PM-10, PM-2.5, sulfur dioxide, oxides of nitrogen, carbon monoxide, total reduced sulfur compounds (TRS), fluorides, lead, VOCs, ammonia, and other contaminants. The format for the submittal of these inventories will be specified by the permitting authority or ecology. When submittal of emission inventory information is requested, the emissions inventory shall be submitted no later than one hundred five days after the end of the calendar year. The owner(s) or operator(s) shall maintain records of information necessary to substantiate any reported emissions, consistent with the averaging times for the applicable standards. Emission estimates used in the inventory may be based on the most recent published EPA emission factors for a source category, or other information

available to the owner(s) or operator(s), whichever is the better estimate.

(2) **Monitoring.** Ecology shall conduct a continuous surveillance program to monitor the quality of the ambient atmosphere as to concentrations and movements of air contaminants. As a part of this program, the director of ecology or an authorized representative may require any source under the jurisdiction of ecology to conduct stack and/or ambient air monitoring and to report the results to ecology.

(3) **Investigation of conditions.** Upon presentation of appropriate credentials, for the purpose of investigating conditions specific to the control, recovery, or release of air contaminants into the atmosphere, personnel from ecology or an authority shall have the power to enter at reasonable times upon any private or public property, excepting nonmultiple unit private dwellings housing one or two families.

(4) **Source testing.** To demonstrate compliance, ecology or the authority may conduct or require that a test be conducted of the source using approved EPA methods from 40 CFR parts 51, 60, 61 and 63 (in effect on October 1, 2006), or procedures contained in "*Source Test Manual - Procedures for Compliance Testing*," state of Washington, department of ecology, as of July 12, 1990, on file at ecology. The operator of a source may be required to provide the necessary platform and sampling ports for ecology personnel or others to perform a test of an emissions unit. Ecology shall be allowed to obtain a sample from any emissions unit. The operator of the source shall be given an opportunity to observe the sampling and to obtain a sample at the same time.

(5) **Continuous monitoring and recording.** Owners and operators of the following categories of sources shall install, calibrate, maintain and operate equipment for continuously monitoring and recording those emissions specified.

(a) Fossil fuel-fired steam generators.

(i) Opacity, except where:

(A) Steam generator capacity is less than two hundred fifty million BTU per hour heat input; or

(B) Only gaseous fuel is burned.

(ii) Sulfur dioxide, except where steam generator capacity is less than two hundred fifty million BTU per hour heat input or if sulfur dioxide control equipment is not required.

(iii) Percent oxygen or carbon dioxide where such measurements are necessary for the conversion of sulfur dioxide continuous emission monitoring data.

(iv) General exception. These requirements do not apply to a fossil fuel-fired steam generator with an annual average capacity factor of less than thirty percent, as reported to the Federal Power Commission for calendar year 1974, or as otherwise demonstrated to ecology or the authority by the owner(s) or operator(s).

(b) **Sulfuric acid plants.** Sulfur dioxide where production capacity is more than three hundred tons per day, expressed as one hundred percent acid, except for those facilities where conversion to sulfuric acid is utilized primarily as a means of preventing emissions to the atmosphere of sulfur dioxide or other sulfur compounds.

(c) Fluid bed catalytic cracking units catalyst regenerators at petroleum refineries. Opacity where fresh feed capacity is more than twenty thousand barrels per day.

(d) Wood residue fuel-fired steam generators.

(i) Opacity, except where steam generator capacity is less than one hundred million BTU per hour heat input.

(ii) Continuous monitoring equipment. The requirements of (e) of this subsection do not apply to wood residue fuel-fired steam generators, but continuous monitoring equipment required by (d) of this subsection shall be subject to approval by ecology.

(e) Owners and operators of those sources required to install continuous monitoring equipment under this subsection shall demonstrate to ecology or the authority, compliance with the equipment and performance specifications and observe the reporting requirements contained in 40 CFR Part 51, Appendix P, Sections 3, 4 and 5 (in effect on July 1, 2004).

(f) Special considerations. If for reason of physical plant limitations or extreme economic situations, ecology determines that continuous monitoring is not a reasonable requirement, alternative monitoring and reporting procedures will be established on an individual basis. These will generally take the form of stack tests conducted at a frequency sufficient to establish the emission levels over time and to monitor deviations in these levels.

(g) Exemptions. This subsection (5) does not apply to any equipment subject to: Continuous emissions monitoring requirement imposed by standard or requirement under 40 CFR Parts 60, 61, 62, 63, or 75 or a permitting authority's adoption by reference of such federal standards.

(h) Monitoring system malfunctions. A source may be temporarily exempted from the monitoring and reporting requirements of this chapter during periods of monitoring system malfunctions provided that the source owner(s) or operator(s) shows to the satisfaction of the permitting authority that the malfunction was unavoidable and is being repaired as expeditiously as practicable.

(6) Change in raw materials or fuels for sources not subject to requirements of the operating permit program. Any change or series of changes in raw material or fuel which will result in a cumulative increase in emissions of sulfur dioxide of forty tons per year or more over that stated in the initial inventory required by subsection (1) of this section shall require the submittal of sufficient information to ecology or the authority to determine the effect of the increase upon ambient concentrations of sulfur dioxide. Ecology or the authority may issue regulatory orders requiring controls to reduce the effect of such increases. Cumulative changes in raw material or fuel of less than 0.5 percent increase in average annual sulfur content over the initial inventory shall not require such notice.

(7) No person shall make any false material statement, representation or certification in any form, notice or report required under chapter 70.94 or 70.120 RCW, or any ordinance, resolution, regulation, permit or order in force pursuant thereto.

(8) No person shall render inaccurate any monitoring device or method required under chapter 70.94 or 70.120 RCW, or any ordinance, resolution, regulation, permit, or order in force pursuant thereto.

[Statutory Authority: RCW 70.94.395 and 70.94.331. 07-11-039 (Order 06-03), § 173-400-105, filed 5/8/07, effective 6/8/07. Statutory Authority: RCW 70.94.152. 05-03-033 (Order 03-07), § 173-400-105, filed 1/10/05, effective 2/10/05. Statutory Authority: Chapter 70.94 RCW, RCW 70.94.-

141, [70.94.]152, [70.94.]331, [70.94.]510 and 43.21A.080. 01-17-062 (Order 99-06), § 173-400-105, filed 8/15/01, effective 9/15/01. Statutory Authority: RCW 70.94.860, 70.94.510 and 70.94.331. 98-15-129 (Order 98-04), § 173-400-105, filed 7/21/98, effective 8/21/98. Statutory Authority: Chapter 70.94 RCW. 96-19-054 (Order 94-35), § 173-400-105, filed 9/13/96, effective 10/14/96; 93-18-007 (Order 93-03), § 173-400-105, filed 8/20/93, effective 9/20/93; 91-05-064 (Order 90-06), § 173-400-105, filed 2/19/91, effective 3/22/91; 87-20-019 (Order 87-12), § 173-400-105, filed 9/30/87.]

WAC 173-400-110 New source review (NSR). In lieu of filing a notice of construction application under this section, the owner or operator may apply for coverage under an applicable general order of approval issued under WAC 173-400-560. Coverage under a general order of approval satisfies the requirement for new source review under RCW 70.94.-152.

(1) **Applicability.**

(a) This section, WAC 173-400-112 and 173-400-113 apply statewide except where an authority has adopted its own new source review rule.

(b) This section applies to sources as defined in RCW 70.94.030(21), but does not include nonroad engines. Nonroad engines are regulated under WAC 173-400-035.

(2) **Projects subject to NSR - notice of construction application.**

(a) A notice of construction application must be filed by the owner or operator and an order of approval issued by the permitting authority prior to the establishment of any new source, except for the following:

(i) Those sources exempt under subsection (4) or (5) of this section; and

(ii) A source regulated under WAC 173-400-035.

For purposes of this section "establishment" shall mean to begin actual construction, as that term is defined in WAC 173-400-030, and "new source" shall include any modification to an existing stationary source, as defined in WAC 173-400-030.

(b) Regardless of any other subsection of this section, a notice of construction application must be filed and an order of approval issued by the permitting authority prior to establishment of any of the following new sources:

(i) Any project that qualifies as construction, reconstruction or modification of an affected facility, within the meaning of 40 CFR Part 60 (New Source Performance Standards), except Part AAA, Wood stoves (in effect on February 20, 2001);

(ii) Any project that qualifies as a new or modified source within the meaning of 40 CFR 61.02 (National Emission Standards for Hazardous Air Pollutants) (in effect on July 1, 2004), except for asbestos demolition and renovation projects subject to 40 CFR 61.145, and except from sources or emission units emitting only radionuclides, which are required to obtain a license under WAC 246-247-060, and are subject to 40 CFR Part 61, subparts H and/or I;

(iii) Any project that qualifies as a new source within the meaning of 40 CFR 63.2 (National Emission Standards for Hazardous Air Pollutants for Source Categories) (in effect on October 1, 2006);

(iv) Any project that qualifies as a new major stationary source, or a major modification to a major stationary source subject to the requirements of WAC 173-400-112;

(v) Any modification to a stationary source that requires an increase either in a plant-wide cap or in a unit specific emission limit.

(c) An applicant filing a notice of construction application for a project described in WAC 173-400-117(2), Special protection requirements for Class I areas, must send a copy of the application to the responsible federal land manager.

(3) **Modifications.** New source review of a modification shall be limited to the emission unit or units proposed to be added to an existing source or modified and the air contaminants whose emissions would increase as a result of the modification; provided, however, that review of a major modification must comply with WAC 173-400-112 and/or 173-400-720, as applicable.

(4) **Emission unit and activity exemptions.**

Except as provided in subsection (2) of this section, establishment of a new emission unit that falls within one of the categories listed below is exempt from new source review. Modification of any emission unit listed below is exempt from new source review, provided that the modified unit continues to fall within one of the listed categories. The installation or modification of a unit exempt under this subsection does not require the filing of a notice of construction application.

(a) Maintenance/construction:

(i) Cleaning and sweeping of streets and paved surfaces;

(ii) Concrete application, and installation;

(iii) Dredging wet spoils handling and placement;

(iv) Paving application and maintenance, excluding asphalt plants;

(v) Plant maintenance and upkeep activities (grounds keeping, general repairs, routine house keeping, routine plant painting, welding, cutting, brazing, soldering, plumbing, retarring roofs, etc.);

(vi) Plumbing installation, plumbing protective coating application and maintenance activities;

(vii) Roofing application;

(viii) Insulation application and maintenance, excluding products for resale;

(ix) Janitorial services and consumer use of janitorial products.

(b) Storage tanks:

Note: It can be difficult to determine requirements for storage tanks. Ecology strongly recommends that an owner or operator contact the permitting authority to determine the exemption status of storage tanks prior to their installation.

(i) Lubricating oil storage tanks except those facilities that are wholesale or retail distributors of lubricating oils;

(ii) Polymer tanks and storage devices and associated pumping and handling equipment, used for solids dewatering and flocculation;

(iii) Storage tanks, reservoirs, pumping and handling equipment of any size containing soaps, vegetable oil, grease, animal fat, and nonvolatile aqueous salt solutions;

(iv) Process and white water storage tanks;

(v) Operation, loading and unloading of storage tanks and storage vessels, with lids or other appropriate closure and less than 260 gallon capacity (35 cft);

(vi) Operation, loading and unloading of storage tanks, ≤ 1100 gallon capacity, with lids or other appropriate closure,

not for use with materials containing toxic air pollutants, as defined in chapter 173-460 WAC, max. VP 550 mm Hg @21°C;

(vii) Operation, loading and unloading storage of butane, propane, or liquefied petroleum gas with a vessel capacity less than 40,000 gallons;

(viii) Tanks, vessels and pumping equipment, with lids or other appropriate closure for storage or dispensing of aqueous solutions of inorganic salts, bases and acids.

(c) A project with combined aggregate heat inputs of combustion units, ≤ all of the following:

(i) ≤ 500,000 Btu/hr using coal with ≤ 0.5% sulfur or other fuels with ≤ 0.5% sulfur;

(ii) ≤ 500,000 Btu/hr used oil, per the requirements of RCW 70.94.610;

(iii) ≤ 400,000 Btu/hr wood waste or paper;

(iv) < 1,000,000 Btu/hr using kerosene, #1, or #2 fuel oil and with ≤0.05% sulfur;

(v) ≤ 4,000,000 Btu/hr using natural gas, propane, or LPG.

(d) Material handling:

(i) Continuous digester chip feeders;

(ii) Grain elevators not licensed as warehouses or dealers by either the Washington state department of agriculture or the U.S. Department of Agriculture;

(iii) Storage and handling of water based lubricants for metal working where organic content of the lubricant is ≤ 10%;

(iv) Equipment used exclusively to pump, load, unload, or store high boiling point organic material in tanks less than one million gallon, material with initial atmospheric boiling point not less than 150°C or vapor pressure not more than 5 mm Hg @21°C, with lids or other appropriate closure.

(e) Water treatment:

(i) Septic sewer systems, not including active wastewater treatment facilities;

(ii) NPDES permitted ponds and lagoons used solely for the purpose of settling suspended solids and skimming of oil and grease;

(iii) De-aeration (oxygen scavenging) of water where toxic air pollutants as defined in chapter 173-460 WAC are not emitted;

(iv) Process water filtration system and demineralizer vents;

(v) Sewer manholes, junction boxes, sumps and lift stations associated with wastewater treatment systems;

(vi) Demineralizer tanks;

(vii) Alum tanks;

(viii) Clean water condensate tanks.

(f) Environmental chambers and laboratory equipment:

(i) Environmental chambers and humidity chambers not using toxic air pollutant gases, as regulated under chapter 173-460 WAC;

(ii) Gas cabinets using only gases that are not toxic air pollutants regulated under chapter 173-460 WAC;

(iii) Installation or modification of a single laboratory fume hood;

(iv) Laboratory calibration and maintenance equipment.

(g) Monitoring/quality assurance/testing:

(i) Equipment and instrumentation used for quality control/assurance or inspection purpose;

(ii) Hydraulic and hydrostatic testing equipment;

(iii) Sample gathering, preparation and management;

(iv) Vents from continuous emission monitors and other analyzers.

(h) Miscellaneous:

(i) Single-family residences and duplexes;

(ii) Plastic pipe welding;

(iii) Primary agricultural production activities including soil preparation, planting, fertilizing, weed and pest control, and harvesting;

(iv) Comfort air conditioning;

(v) Flares used to indicate danger to the public;

(vi) Natural and forced air vents and stacks for bathroom/toilet activities;

(vii) Personal care activities;

(viii) Recreational fireplaces including the use of barbecues, campfires, and ceremonial fires;

(ix) Tobacco smoking rooms and areas;

(x) Noncommercial smokehouses;

(xi) Blacksmith forges for single forges;

(xii) Vehicle maintenance activities, not including vehicle surface coating;

(xiii) Vehicle or equipment washing (see (c) of this subsection for threshold for boilers);

(xiv) Wax application;

(xv) Oxygen, nitrogen, or rare gas extraction and liquefaction equipment not including internal and external combustion equipment;

(xvi) Ozone generators and ozonation equipment;

(xvii) Solar simulators;

(xviii) Ultraviolet curing processes, to the extent that toxic air pollutant gases as defined in chapter 173-460 WAC are not emitted;

(xix) Electrical circuit breakers, transformers, or switching equipment installation or operation;

(xx) Pulse capacitors;

(xxi) Pneumatically operated equipment, including tools and hand held applicator equipment for hot melt adhesives;

(xxii) Fire suppression equipment;

(xxiii) Recovery boiler blow-down tank;

(xxiv) Screw press vents;

(xxv) Drop hammers or hydraulic presses for forging or metal working;

(xxvi) Production of foundry sand molds, unheated and using binders less than 0.25% free phenol by sand weight;

(xxvii) Kraft lime mud storage tanks and process vessels;

(xxviii) Lime grits washers, filters and handling;

(xxix) Lime mud filtrate tanks;

(xxx) Lime mud water;

(xxxi) Stock cleaning and pressurized pulp washing down process of the brown stock washer;

(xxxii) Natural gas pressure regulator vents, excluding venting at oil and gas production facilities and transportation marketing facilities;

(xxxiii) Nontoxic air pollutant, as defined in chapter 173-460 WAC, solvent cleaners less than 10 square feet air-vapor interface with solvent vapor pressure not more than 30 mm Hg @21°C;

(xxxiv) Surface coating, aqueous solution or suspension containing ≤ 1% (by weight) VOCs, and/or toxic air pollutants as defined in chapter 173-460 WAC;

(xxxv) Cleaning and stripping activities and equipment using solutions having ≤ 1% VOCs (by weight); on metallic substances, acid solutions are not exempt;

(xxxvi) Dip coating operations, using materials less than 1% VOCs (by weight) and/or toxic air pollutants as defined in chapter 173-460 WAC.

(5) **Exemptions based on emissions.**

(a) Except as provided in subsection (2) of this section and in this subsection:

(i) A new emissions unit that has a potential to emit below each of the levels listed in the table contained in (d) of this subsection is exempt from new source review provided that the conditions of (b) of this subsection are met.

(ii) A modification to an existing emissions unit that increases the unit's actual emissions by less than each of the threshold levels listed in the table contained in (d) of this subsection is exempt from new source review provided that the conditions of (b) of this subsection are met.

(b) The owner or operator seeking to exempt a project from new source review under this section shall notify, and upon request, file a brief project summary with the permitting authority prior to beginning actual construction on the project. If the permitting authority determines that the project will have more than a de minimus impact on air quality, the permitting authority may require the filing of a notice of construction application. The permitting authority may require the owner or operator to demonstrate that the emissions increase from the new emissions unit is smaller than all of the levels listed below.

(c) The owner/operator may begin actual construction on the project thirty-one days after the permitting authority receives the summary, unless the permitting authority notifies the owner/operator within thirty days that the proposed new source requires a notice of construction application.

(d) Exemption level table:

POLLUTANT	LEVEL (TONS PER YEAR)
(a) Total Suspended Particulates	1.25
(b) PM-10	0.75
(c) Sulfur Oxides	2.0
(d) Nitrogen Oxides	2.0
(e) Volatile Organic Compounds, total	2.0
(f) Carbon Monoxide	5.0
(g) Lead	0.005
(h) Ozone Depleting Substances (in effect on July 1, 2000), total	1.0
(i) Toxic Air Pollutants	As specified in chapter 173-460 WAC.

(6) **Application processing - completeness determination.**

(a) Within thirty days after receiving a notice of construction application, the permitting authority shall either notify the applicant in writing that the application is complete or notify the applicant in writing of all additional information necessary to complete the application.

(b) For a project subject to the Special protection requirements for federal Class I areas in WAC 173-400-117(2), a completeness determination includes a determination that the application includes all information required for review of that project under WAC 173-400-117(3).

(7) **Final determination.**

(a) Within sixty days of receipt of a complete notice of construction application, the permitting authority shall either issue a final decision on the application or for those projects subject to public notice under WAC 173-400-171(1), initiate notice and comment on a proposed decision, followed as promptly as possible by a final decision.

(b) A person seeking approval to construct or modify a source that requires an operating permit may elect to integrate review of the operating permit application or amendment required under chapter 173-401 WAC and the notice of construction application required by this section. A notice of construction application designated for integrated review shall be processed in accordance with operating permit program procedures and deadlines in chapter 173-401 WAC and must also comply with WAC 173-400-171.

(c) Every final determination on a notice of construction application shall be reviewed and signed prior to issuance by a professional engineer or staff under the direct supervision of a professional engineer in the employ of the permitting authority.

(d) If the new source is a major stationary source or the change is a major modification subject to the requirements of WAC 173-400-112, the permitting authority shall:

(i) Submit any control technology determination included in a final order of approval for a major source or a major modification to a major stationary source in a nonattainment area to the RACT/BACT/LAER clearinghouse maintained by EPA; and

(ii) Send a copy of the final approval order to EPA.

(8) **Appeals.** Any conditions contained in an order of approval, or the denial of a notice of construction application may be appealed to the pollution control hearings board as provided in chapter 43.21B RCW. The permitting authority shall promptly mail copies of each order approving or denying a notice of construction application to the applicant and to any other party who submitted timely comments on the application, along with a notice advising parties of their rights of appeal to the pollution control hearings board.

(9) **Construction time limitations.** Approval to construct or modify a stationary source becomes invalid if construction is not commenced within eighteen months after receipt of the approval, if construction is discontinued for a period of eighteen months or more, or if construction is not completed within a reasonable time. The permitting authority may extend the eighteen-month period upon a satisfactory showing that an extension is justified. The extension of a project that is either a major stationary source in a nonattainment area or a major modification in a nonattainment area must also require LAER as it exists at the time of the extension. This provision does not apply to the time period between construction of the approved phases of a phased construction project. Each phase must commence construction within eighteen months of the projected and approved commence construction date.

(10) **Change of conditions.**

(a) The owner or operator may request, at any time, a change in conditions of an approval order and the permitting authority may approve the request provided the permitting authority finds that:

(i) The change in conditions will not cause the source to exceed an emissions standard;

(ii) No ambient air quality standard will be exceeded as a result of the change;

(iii) The change will not adversely impact the ability of ecology or the authority to determine compliance with an emissions standard;

(iv) The revised order will continue to require BACT, as defined at the time of the original approval, for each new source approved by the order except where the Federal Clean Air Act requires LAER; and

(v) The revised order meets the requirements of WAC 173-400-110, 173-400-112, 173-400-113 and 173-400-720, as applicable.

(b) Actions taken under this subsection are subject to the public involvement provisions of WAC 173-400-171.

(c) This rule does not prescribe the exact form such requests must take. However, if the request is filed as a notice of construction application, that application must be acted upon using the timelines found in subsections (6) and (7) of this section. The fee schedule found in WAC 173-400-116 shall also apply to requests filed as notice of construction applications.

(11) **Enforcement.** All persons who receive an order of approval must comply with all approval conditions contained in the order of approval.

[Statutory Authority: RCW 70.94.395 and 70.94.331. 07-11-039 (Order 06-03), § 173-400-110, filed 5/8/07, effective 6/8/07. Statutory Authority: RCW 70.94.152. 05-03-033 (Order 03-07), § 173-400-110, filed 1/10/05, effective 2/10/05. Statutory Authority: Chapter 70.94 RCW, RCW 70.94.-141, [70.94.]152, [70.94.]331, [70.94.]510 and 43.21A.080. 01-17-062 (Order 99-06), § 173-400-110, filed 8/15/01, effective 9/15/01. Statutory Authority: RCW 70.94.860, 70.94.510 and 70.94.331. 98-15-129 (Order 98-04), § 173-400-110, filed 7/21/98, effective 8/21/98. Statutory Authority: RCW 70.94.152. 98-01-183 (Order 96-01), § 173-400-110, filed 12/23/97, effective 1/23/98. Statutory Authority: Chapter 70.94 RCW. 93-18-007 (Order 93-03), § 173-400-110, filed 8/20/93, effective 9/20/93; 91-05-064 (Order 90-06), § 173-400-110, filed 2/19/91, effective 3/22/91. Statutory Authority: Chapters 43.21A and 70.94 RCW. 83-09-036 (Order DE 83-13), § 173-400-110, filed 4/15/83. Statutory Authority: RCW 70.94.331, 70.94.510, and 70.94.785. 81-03-002 (Order DE 80-53), § 173-400-110, filed 1/8/81. Statutory Authority: RCW 70.94.331. 80-11-059 (Order DE 80-14), § 173-400-110, filed 8/20/80. Statutory Authority: RCW 43.21A.-080 and 70.94.331. 79-06-012 (Order DE 78-21), § 173-400-110, filed 5/8/79; Order DE 76-38, § 173-400-110, filed 12/21/76. Formerly WAC 18-04-110.]

WAC 173-400-115 Standards of performance for new sources. NSPS. Standards of performance for new sources are called New Source Performance Standards, or NSPS.

(1) **Adoption by reference.**

(a) 40 CFR Part 60 and Appendices in effect on October 1, 2006, is adopted by reference. Exceptions are listed in subsection (1)(b) of this section.

The following list of subparts to 40 CFR Part 60 which are shown as blank or reserved in the Code of Federal Regulations as of the date listed above, is provided for informational purposes only:

40 CFR Part 60, subparts FF, II, JJ, OO, YY, ZZ, CCC, EEE, MMM, XXX, YYY, ZZZ, GGGG, JJJJ, Appendix E, and Appendix H.

(b) Exceptions to adopting 40 CFR Part 60 by reference.

(i) The term "administrator" in 40 CFR Part 60 includes the permitting authority.

(ii) The following sections and subparts of 40 CFR Part 60 are not adopted by reference:

(A) 40 CFR 60.5 (determination of construction or modification);

(B) 40 CFR 60.6 (review of plans);

(C) 40 CFR Part 60, subpart B (Adoption and Submittal of State Plans for Designated Facilities), and subparts C, Cb, Cc, Cd, Ce, BBBB, DDDD, FFFF, HHHH (emission guidelines); and

(D) 40 CFR Part 60, Appendix G, Provisions for an Alternative Method of Demonstrating Compliance With 40 CFR 60.43 for the Newton Power Station of Central Illinois Public Service Company.

(2) Where EPA has delegated to the permitting authority, the authority to receive reports under 40 CFR Part 60, from the affected facility in lieu of providing such report to EPA, the affected facility is required to provide such reports only to the permitting authority unless otherwise requested in writing by the permitting authority or EPA.

Note: Under RCW 80.50.020(14), larger energy facilities subject to subparts D, Da, GG, J, K, Kb, Y, KKK, LLL, and QQQ are regulated by the energy facility site evaluation council (EFSEC).

[Statutory Authority: RCW 70.94.395 and 70.94.331. 07-11-039 (Order 06-03), § 173-400-115, filed 5/8/07, effective 6/8/07. Statutory Authority: RCW 70.94.152. 05-03-033 (Order 03-07), § 173-400-115, filed 1/10/05, effective 2/10/05. Statutory Authority: Chapter 70.94 RCW, RCW 70.94.-141, [70.94.]152, [70.94.]331, [70.94.]510 and 43.21A.080. 01-17-062 (Order 99-06), § 173-400-115, filed 8/15/01, effective 9/15/01. Statutory Authority: [RCW 70.94.331, 70.94.510 and chapter 70.94 RCW.] 00-23-130 (Order 98-27), § 173-400-115, filed 11/22/00, effective 12/23/00. Statutory Authority: RCW 70.94.785. 98-22-019 (Order 98-02), § 173-400-115, filed 10/23/98, effective 11/23/98. Statutory Authority: Chapter 70.94 RCW. 96-19-054 (Order 94-35), § 173-400-115, filed 9/13/96, effective 10/14/96; 93-05-044 (Order 92-34), § 173-400-115, filed 2/17/93, effective 3/20/93; 91-05-064 (Order 90-06), § 173-400-115, filed 2/19/91, effective 3/22/91. Statutory Authority: RCW 70.94.331, 70.94.395 and 70.94.510. 85-06-046 (Order 84-48), § 173-400-115, filed 3/6/85. Statutory Authority: Chapters 43.21A and 70.94 RCW. 83-09-036 (Order DE 83-13), § 173-400-115, filed 4/15/83; 82-16-019 (Order DE 82-20), § 173-400-115, filed 7/27/82. Statutory Authority: RCW 70.94.331. 80-11-059 (Order DE 80-14), § 173-400-115, filed 8/20/80. Statutory Authority: RCW 43.21A.080 and 70.94.331. 79-06-012 (Order DE 78-21), § 173-400-115, filed 5/8/79; Order DE 76-38, § 173-400-115, filed 12/21/76. Formerly WAC 18-04-115.]

WAC 173-400-116 New source review fees. Fees can be found in chapter 173-455 WAC.

[Statutory Authority: RCW 70.94.181, [70.94.]152, [70.94.]331, [70.94.]-650, [70.94.]745, [70.94.]892, [70.94.]011. 07-19-005 (Order 07-10), § 173-400-116, filed 9/6/07, effective 10/7/07. Statutory Authority: RCW 70.94.-152. 05-03-033 (Order 03-07), § 173-400-116, filed 1/10/05, effective 2/10/05. Statutory Authority: Chapter 70.94 RCW, RCW 70.94.141, [70.94.]152, [70.94.]331, [70.94.]510 and 43.21A.080. 01-17-062 (Order 99-06), § 173-400-116, filed 8/15/01, effective 9/15/01. Statutory Authority: Chapter 70.94 RCW. 96-19-054 (Order 94-35), § 173-400-116, filed 9/13/96, effective 10/14/96. Statutory Authority: RCW 70.94.153 and 70.94.154. 94-17-070, § 173-400-116, filed 8/15/94, effective 9/15/94.]

WAC 173-400-171 Public involvement. (1) **Internet notification of receipt of an application.**

(a) For applications and actions not subject to a mandatory public notice and comment period per subsection (2)(a) of this section, the permitting authority will either:

(i) Post on the permitting authority's internet web site an announcement of the receipt of notice of construction applications and other proposed actions; or

(ii) Follow the public involvement process found in subsection (3) of this section.

(b) For internet notification, notice shall remain on the permitting authority's web site for a minimum of fifteen consecutive days. The internet posting shall include notice of the receipt of the application, the type of proposed action, and a statement that the public may request a public comment period on the proposed action.

(c) Requests for a public comment period shall be submitted to the permitting authority in writing via letter, fax, or electronic mail within fifteen days of its internet posting. A public notice and comment period shall be provided pursuant to subsections (3) and (4) of this section for any application or proposed action that receives such a request. Any application or proposed action for which a public comment period is not requested may be processed without further public involvement at the end of the fifteen-day comment period.

(d) Any application or proposed action that automatically requires a public comment period pursuant to subsection (2) of this section or for which the agency proposes to have a public comment period does not have to be announced on the permitting authorities' internet web site.

(2) **Actions subject to public notice and comment.**

(a) The permitting authority must provide public notice and a public comment period before approving or denying any of the following types of applications or other actions:

(i) Notice of construction application for any new or modified source, including the initial application for operation of a portable source, if an increase in emissions of any air pollutant at a rate above the emission threshold rate (defined in WAC 173-400-030) or any increase in a pollutant regulated under chapter 173-460 WAC which will increase above the small quantity emission rate listed in WAC 173-460-080 (2)(e) would result; or

(ii) Any use of a modified or substituted air quality model, other than a guideline model in Appendix W of 40 CFR Part 51 (in effect on October 1, 2006) as part of review under WAC 173-400-110, 173-400-112, 173-400-113, 173-400-117, or 173-400-720; or

(iii) Any order to determine RACT; or

(iv) An order to establish a compliance schedule or a variance; or

(v) An order to demonstrate the creditable height of a stack which exceeds the GEP formula height and sixty-five meters, by means of a fluid model or a field study, for the purposes of establishing an emission limitation; or

(vi) An order to authorize a bubble; or

(vii) Any action to discount the value of an ERC issued to a source per WAC 173-400-136(6); or

(viii) Any regulatory order to establish BART for an existing stationary facility; or

(ix) Notice of construction application or regulatory order used to establish a creditable emission reduction; or

(x) An order issued under WAC 173-400-091 that establishes limitations on a source's potential to emit; or

(xi) The original issuance and the issuance of all revisions to a general order of approval issued under WAC 173-400-560; or

(xii) Any extension of the deadline to begin actual construction of a "major stationary source" or "major modification" in a nonattainment area; or

(xiii) Exception. PSD actions, under WAC 173-400-730 and 173-400-740 are not required to follow the procedures in this section. The public involvement for these projects shall follow the procedures in WAC 173-400-730(4) and 173-400-740.

(b) Ecology must provide notice on the following ecology only actions:

(i) A Washington state recommendation that will be submitted by the director of ecology to EPA for approval of a SIP revision, including plans for attainment, maintenance, and visibility protection; or

(ii) A Washington state recommendation to EPA for designation or redesignation of an area as attainment, nonattainment, or unclassifiable; or

(iii) A Washington state recommendation to EPA for a change of boundaries of an attainment or nonattainment area; or

(iv) A Washington state recommendation to EPA for redesignation of an area under WAC 173-400-118.

(c) The permitting authority will provide public notice before approving or denying any application or other action for which the permitting authority determines there is substantial public interest.

(d) A notice of construction application designated for integrated review with an application to issue or modify an operating permit shall be processed in accordance with the operating permit program procedures and deadlines. A project designated for integrated review that includes a notice of construction application for a major modification in a nonattainment area, or a notice of construction application for a major stationary source in a nonattainment area must also comply with public notice requirements in this section. A project designated for integrated review that includes a PSD permit application must also comply with the requirements in WAC 173-400-730 and 173-400-740.

(3) **Public notice.** Public notice shall be made only after all information required by the permitting authority has been submitted and after applicable preliminary determinations, if any, have been made. The applicant or other initiator of the action must pay the cost of providing public notice. Public notice shall include:

(a) Availability for public inspection. The information submitted by the applicant, and any applicable preliminary determinations, including analyses of the effects on air quality, must be available for public inspection in at least one location near the proposed project. Exemptions from this requirement include information protected from disclosure under any applicable law, including, but not limited to, RCW 70.94.205 and chapter 173-03 WAC.

(i) For a redesignation of a class II area under WAC 173-400-118, ecology must make available for public inspection at least thirty days before the hearing the explanation of the reasons for the proposed redesignation.

(ii) For a revision of the SIP subject to subsection (2)(b)(iii) of this section, ecology must make available for public inspection the information related to the action at least thirty days before the hearing.

(b) Newspaper publication. Public notice of the proposed project must be published in a newspaper of general circulation in the area of the proposed project and must include:

(i) The name and address of the owner or operator and the facility;

(ii) A brief description of the proposal;

(iii) The location of the documents made available for public inspection;

(iv) A thirty-day period for submitting written comment to the permitting authority;

(v) A statement that a public hearing may be held if the permitting authority determines within a thirty-day period that significant public interest exists or for those actions listed in WAC 173-400-171 (5)(b) with a mandatory public hearing requirement, the time, date, and location of the public hearing.

(vi) The length of the public comment period in the event of a public hearing;

(vii) For projects subject to special protection requirements for federal Class I areas in WAC 173-400-117 (5)(c), public notice shall either explain the permitting authority's decision or state that an explanation of the decision appears in the support document for the proposed order of approval; and

(viii) For a redesignation of an area under WAC 173-400-118, public notice shall state that an explanation of the reasons for the proposed redesignation is available for review at the public location.

(c) Notifying EPA. A copy of the public notice will be sent to the EPA Region 10 regional administrator.

(d) Additional public notice requirements for a SIP revision. For a revision to the SIP that is submitted by the director of ecology, ecology must publish the public notice required by subsection (3)(b) of this section in the *Washington State Register* in advance of the date of the public hearing.

(4) **Public comment.**

(a) The public comment period must be at least the thirty-day period for written comment specified in the public notice.

(b) If a public hearing is held, the public comment period must extend through the hearing date.

(c) The permitting authority shall make no final decision on any application or action of any type described in subsection (1) of this section until the public comment period has ended and any comments received during the public comment period have been considered.

(5) **Public hearings.**

(a) The applicant, any interested governmental entity, any group, or any person may request a public hearing within the thirty-day public comment period. A request must indicate the interest of the entity filing it and why a hearing is warranted. The permitting authority may hold a public hearing if it determines significant public interest exists. The permitting authority will determine the location, date, and time of the public hearing.

(b) Ecology must hold a hearing on the following ecology only actions:

(i) A Washington state recommendation to EPA that will be submitted by the director of ecology for approval of a SIP revision;

(ii) A Washington state recommendation to EPA for a change of boundaries of an attainment or nonattainment area;

(iii) A Washington state recommendation to EPA for designation of an area as attainment, nonattainment, or unclassifiable; and

(iv) A Washington state recommendation to EPA to redesignate an area under WAC 173-400-118.

(c) Ecology must provide at least thirty days prior notice of a hearing required under subsection (4)(b) of this section.

(6) **Other requirements of law.** Whenever procedures permitted or mandated by law will accomplish the objectives of public notice and opportunity for comment, those procedures may be used in lieu of the provisions of this section.

[Statutory Authority: RCW 70.94.395 and 70.94.331. 07-11-039 (Order 06-03), § 173-400-171, filed 5/8/07, effective 6/8/07. Statutory Authority: RCW 70.94.152. 05-03-033 (Order 03-07), § 173-400-171, filed 1/10/05, effective 2/10/05. Statutory Authority: Chapter 70.94 RCW, RCW 70.94.-141, [70.94.]152, [70.94.]331, [70.94.]510 and 43.21A.080. 01-17-062 (Order 99-06), § 173-400-171, filed 8/15/01, effective 9/15/01. Statutory Authority: Chapter 70.94 RCW. 95-07-126 (Order 93-40), § 173-400-171, filed 3/22/95, effective 4/22/95; 93-18-007 (Order 93-03), § 173-400-171, filed 8/20/93, effective 9/20/93; 91-05-064 (Order 90-06), § 173-400-171, filed 2/19/91, effective 3/22/91.]

WAC 173-400-180 Variance. Any person who owns or is in control of a plant, building, structure, establishment, process, or equipment may apply to ecology for a variance from provisions of this chapter governing the quality, nature, duration, or extent of discharges of air contaminants in accordance with the provisions of RCW 70.94.181.

(1) **Jurisdiction.** Sources in any area over which a local air pollution control authority has jurisdiction shall make application to that authority rather than ecology. Variances to state rules shall require ecology's approval prior to being issued by an authority. Ecology or the authority may grant such variance, but only after public involvement per WAC 173-400-171.

(2) **Full faith and credit.** Variances granted in compliance with state and federal laws by an authority for sources under their jurisdiction will be accepted as variances to this regulation.

(3) **EPA concurrence.** No variance or renewal shall be construed to set aside or delay any requirements of the Federal Clean Air Act except with the approval and written concurrence of the USEPA.

(4) Fees relating to this section can be found in chapter 173-455 WAC.

[Statutory Authority: RCW 70.94.181, [70.94.]152, [70.94.]331, [70.94.]-650, [70.94.]745, [70.94.]892, [70.94.]011. 07-19-005 (Order 07-10), § 173-400-180, filed 9/6/07, effective 10/7/07. Statutory Authority: Chapter 70.94 RCW. 93-18-007 (Order 93-03), § 173-400-180, filed 8/20/93, effective 9/20/93; 91-05-064 (Order 90-06), § 173-400-180, filed 2/19/91, effective 3/22/91.]

WAC 173-400-710 Definitions. (1) The definitions in WAC 173-400-030 are to be used in WAC 173-400-700 through 173-400-750 unless:

(a) A term is defined differently in WAC 173-400-710 for use in the major source permitting requirements in WAC 173-400-700 through 173-400-750; or

(b) A term is defined differently in the federal program requirements adopted by reference in WAC 173-400-720.

(2) All usage of the term "source" in WAC 173-400-710 through 173-400-750 and in 40 CFR 52.21 as adopted by reference is to be interpreted to mean "stationary source" as defined in 40 CFR 52.21 (b)(5). A stationary source (or source) does not include emissions resulting directly from an internal combustion engine for transportation purposes from a nonroad engine or nonroad vehicle as defined in section 216 of the Federal Clean Air Act.

[Statutory Authority: RCW 70.94.395 and 70.94.331. 07-11-039 (Order 06-03), § 173-400-710, filed 5/8/07, effective 6/8/07. Statutory Authority: RCW 70.94.152. 05-03-033 (Order 03-07), § 173-400-710, filed 1/10/05, effective 2/10/05.]

WAC 173-400-720 Prevention of significant deterioration (PSD). (1) No major stationary source or major modification to which the requirements of this section apply shall begin actual construction without having received a PSD permit.

(2) **Early planning encouraged.** In order to develop an appropriate application, the source should engage in an early planning process to assess the needs of the facility. An opportunity for a preapplication meeting with ecology is available to any potential applicant.

(3) **Enforcement.** Ecology or the permitting authority with jurisdiction over the source under chapter 173-401 WAC, the Operating permit regulation, shall:

(a) Receive all reports required in the PSD permit;

(b) Enforce the requirement to apply for a PSD permit when one is required; and

(c) Enforce the conditions in the PSD permit.

(4) **Applicable requirements.**

(a) A PSD permit must assure compliance with the following requirements:

(i) Allowable emissions from the proposed major stationary source or major modification will not delay the attainment date for an area not in attainment nor cause or contribute to a violation of any ambient air quality standard. This requirement will be considered to be met if the projected impact of the allowable emissions from the proposed major stationary source or the projected impact of the increase in allowable emissions from the proposed major modification at any location within a nonattainment area does not exceed the following levels for the pollutants for which the area has been designated nonattainment:

Pollutant	Annual Average	24-Hour Average	8-Hour Average	3-Hour Average	1-Hour Average
CO-	-		0.5 mg/m^3	-	2 mg/m^3
SO_2	1.0 μg/m^3	5 μg/m^3	-	25 μg/m^3	30 μg/m^3
PM_{10}	1.0 μg/m^3	5 μg/m^3	-	-	-
NO_2	1.0 μg/m^3	-	-	-	-

An offsetting emission reduction may be used to satisfy some or all of the requirements of this subsection.

(ii) WAC 173-400-117 - Special protection requirements for federal Class I areas;

(iii) WAC 173-400-730 - Prevention of significant deterioration application processing;

(iv) WAC 173-400-740 - Prevention of significant deterioration public involvement requirements; and

(v) The following subparts of 40 CFR 52.21, in effect on October 1, 2006, which are adopted by reference. Exceptions are listed in (b)(i), (ii), and (iii) of this subsection:

Section	Title
40 CFR 52.21 (a)(2)	Applicability Procedures.
40 CFR 52.21 (b)	Definitions.
40 CFR 52.21 (c)	Ambient air increments.
40 CFR 52.21 (d)	Ambient air ceilings.
40 CFR 52.21 (h)	Stack heights.
40 CFR 52.21 (i)	Review of major stationary sources and major modifications - source applicability and exemptions.
40 CFR 52.21 (j)	Control technology review.
40 CFR 52.21 (k)	Source impact analysis.
40 CFR 52.21 (l)	Air quality models.
40 CFR 52.21 (m)	Air quality analysis.
40 CFR 52.21 (n)	Source information.
40 CFR 52.21 (o)	Additional impact analysis.
40 CFR 52.21 (r)	Source obligation.
40 CFR 52.21 (v)	Innovative control technology.
40 CFR 52.21 (w)	Permit rescission.
40 CFR 52.21 (x)	Vacated by federal Court Decision.
40 CFR 52.21 (y)	Vacated by federal Court Decision.
40 CFR 52.21 (z)	Vacated by federal Court Decision.
40 CFR 52.21 (aa)	Actuals Plantwide Applicability Limitation.
40 CFR 52.21 (bb)	Severability clause.
40 CFR 52.21 (cc)	Vacated by federal Court Decision.

(b) Exceptions to adopting 40 CFR 52.21 by reference.

(i) Every use of the word "administrator" in 40 CFR 52.21 means ecology except for the following:

(A) In 40 CFR 52.21 (b)(17), the definition of federally enforceable, "administrator" means the EPA administrator.

(B) In 40 CFR 52.21 (l)(2), air quality models, "administrator" means the EPA administrator.

(C) In 40 CFR 52.21 (b)(43) the definition of prevention of significant deterioration program, "administrator" means the EPA administrator.

(D) In 40 CFR 52.21 (b)(48)(ii)(c) related to regulations promulgated by the administrator, "administrator" means the EPA administrator.

(E) In 40 CFR 52.21 (b)(50)(i) related to the definition of a regulated NSR pollutant, "administrator" means the EPA administrator.

(ii) Each reference in 40 CFR 52.21(i) to "paragraphs (j) through (r) of this section" is amended to state "paragraphs (j) through (o) of this section, paragraph (r) of this section, WAC 173-400-117, 173-400-720, and 173-400-730."

(iii) The following paragraphs replace the designated paragraphs of 40 CFR 52.21:

(A) In 40 CFR 52.21 (b)(1)(i)(a) and (b)(1)(iii)(h), the size threshold for municipal waste incinerators is changed to 50 tons of refuse per day.

(B) 40 CFR 52.21 (b)(23)(i) After the entry for municipal solid waste landfills emissions, add Ozone Depleting Substances: 100 tpy.

(C) 40 CFR 52.21 (r)(6) "The provisions of this paragraph (r)(6) apply to projects at an existing emissions unit at a major stationary source (other than projects at a Clean Unit or at a source with a PAL) in circumstances where there is a reasonable possibility that a project that is not a part of a major modification may result in a significant emissions increase and the owner or operator elects to use the method specified in paragraphs 40 CFR 52.21 (b)(41)(ii)(a) through (c) for calculating projected actual emissions.

(i) Before beginning actual construction of the project, the owner or operator shall document and maintain a record of the following information:

(A) A description of the project;

(B) Identification of the emissions unit(s) whose emissions of a regulated NSR pollutant could be affected by the project; and

(C) A description of the applicability test used to determine that the project is not a major modification for any regulated NSR pollutant, including the baseline actual emissions, the projected actual emissions, the amount of emissions excluded under paragraph 40 CFR 52.21 (b)(41)(ii)(c) and an explanation for why such amount was excluded, and any netting calculations, if applicable.

(ii) The owner or operator shall submit a copy of the information set out in paragraph 40 CFR 52.21 (r)(6)(i) to the permitting authority before beginning actual construction. This information may be submitted in conjunction with any NOC application required under the provisions of WAC 173-400-110. Nothing in this paragraph (r)(6)(ii) shall be construed to require the owner or operator of such a unit to obtain any PSD determination from the permitting authority before beginning actual construction.

(iii) The owner or operator shall monitor the emissions of any regulated NSR pollutant that could increase as a result of the project and that is emitted by any emissions unit identified in paragraph 40 CFR 52.21 (r)(6)(i)(b); and calculate and maintain a record of the annual emissions, in tons per year on a calendar year basis, for a period of 5 years following resumption of regular operations after the change, or for a period of 10 years following resumption of regular operations after the change if the project increases the design capacity of or potential to emit that regulated NSR pollutant at such emissions unit.

(iv) The owner or operator shall submit a report to the permitting authority within 60 days after the end of each year during which records must be generated under paragraph 40 CFR 52.21 (r)(6)(iii) setting out the unit's annual emissions during the calendar year that preceded submission of the report.

(v) The owner or operator shall submit a report to the permitting authority if the annual emissions, in tons per year, from the project identified in paragraph 40 CFR 52.21 (r)(6)(i), exceed the baseline actual emissions (as documented and maintained pursuant to paragraph 40 CFR 52.21 (r)(6)(i)(c)), by a significant amount (as defined in paragraph 40 CFR 52.21 (b)(23)) for that regulated NSR pollutant, and if such emissions differ from the preconstruction projection as documented and maintained pursuant to paragraph 40 CFR 52.21 (r)(6)(i)(c). Such report shall be submitted to the permitting authority within 60 days after the end of such year. The report shall contain the following:

(a) The name, address and telephone number of the major stationary source;

(b) The annual emissions as calculated pursuant to paragraph (r)(6)(iii) of this section; and

(c) Any other information that the owner or operator wishes to include in the report (e.g., an explanation as to why the emissions differ from the preconstruction projection)."

(D) 40 CFR 52.21 (r)(7) The owner or operator of the source shall submit the information required to be documented and maintained pursuant to paragraphs 40 CFR 52.21 (r)(6)(iv) and (v) annually within 60 days after the anniversary date of the original analysis. The original analysis and annual reviews shall also be available for review upon a request for inspection by the permitting authority or the general public pursuant to the requirements contained in 40 CFR 70.4 (b)(3)(viii).

(E) 40 CFR 52.21 (aa)(2)(ix) PAL permit means the PSD permit, an ecology issued order of approval issued under WAC 173-400-110, or regulatory order issued under WAC 173-400-091 issued by ecology that establishes a PAL for a major stationary source.

(F) 40 CFR 52.21 (aa)(5) Public participation requirements for PALs. PALs for existing major stationary sources shall be established, renewed, or expired through the public participation process in WAC 173-400-171. A request to increase a PAL shall be processed in accordance with the application processing and public participation process in WAC 173-400-730 and 173-400-740.

(G) 40 CFR 52.21 (aa)(9)(i)(b) Ecology, after consultation with the permitting authority, shall decide whether and how the PAL allowable emissions will be distributed and issue a revised order, order of approval or PSD permit incorporating allowable limits for each emissions unit, or each group of emissions units, as ecology determines is appropriate.

(H) 40 CFR 52.21 (aa)(14) Reporting and notification requirements. The owner or operator shall submit semiannual monitoring reports and prompt deviation reports to the permitting authority in accordance with the requirements in chapter 173-401 WAC. The reports shall meet the requirements in paragraphs 40 CFR 52.21 (aa)(14)(i) through (iii).

(I) 40 CFR 52.21 (aa)(14)(ii) Deviation report. The major stationary source owner or operator shall promptly submit reports of any deviations or exceedance of the PAL requirements, including periods where no monitoring is available. A report submitted pursuant to WAC 173-401-615 (3)(b) and within the time limits prescribed shall satisfy this reporting requirement. The reports shall contain the information found at WAC 173-401-615(3).

[Statutory Authority: RCW 70.94.395 and 70.94.331. 07-11-039 (Order 06-03), § 173-400-720, filed 5/8/07, effective 6/8/07. Statutory Authority: RCW 70.94.152. 05-03-033 (Order 03-07), § 173-400-720, filed 1/10/05, effective 2/10/05.]

Chapter 173-407 WAC

CARBON DIOXIDE MITIGATION PROGRAM FOR FOSSIL-FUELED THERMAL ELECTRIC GENERATING FACILITIES

WAC

WAC 173-407-040 Carbon dioxide mitigation program fees. Fees can be found in chapter 173-455 WAC.

[Statutory Authority: RCW 70.94.181, [70.94.]152, [70.94.]331, [70.94.]650, [70.94.]745, [70.94.]892, [70.94.]011. 07-19-005 (Order 07-10), § 173-407-040, filed 9/6/07, effective 10/7/07. Statutory Authority: RCW 70.94.892 and chapter 80.70 RCW. 05-01-237 (Order 03-09), § 173-407-040, filed 12/22/04, effective 1/22/05.]

Chapter 173-433 WAC

SOLID FUEL BURNING DEVICES

WAC

WAC 173-433-170 Retail sales fee. Fees can be found in chapter 173-455 WAC.

[Statutory Authority: RCW 70.94.181, [70.94.]152, [70.94.]331, [70.94.]650, [70.94.]745, [70.94.]892, [70.94.]011. 07-19-005 (Order 07-10), § 173-433-170, filed 9/6/07, effective 10/7/07. Statutory Authority: Chapter 70.94 RCW and 501-506 ESHB 1028, 1991. 93-04-105 (Order 91-55), § 173-433-170, filed 2/3/93, effective 3/6/93. Statutory Authority: Chapter 70.94 RCW. 91-07-066 (Order 90-58), § 173-433-170, filed 3/20/91, effective 4/20/91. Statutory Authority: Chapters 70.94 and 43.21A RCW. 89-02-054 (Order 88-38), § 173-433-170, filed 1/3/89.]

Chapter 173-455 WAC

AIR QUALITY FEE REGULATION

WAC

WAC 173-455-010 Overview. It is the purpose of this chapter to consolidate most of the air quality related fees into one chapter. This will allow the regulated community easier access to applicable fees.

[Statutory Authority: RCW 70.94.181, [70.94.]152, [70.94.]331, [70.94.]650, [70.94.]745, [70.94.]892. 07-11-018 (Order 06-14), § 173-455-010, filed 5/3/07, effective 6/3/07.]

WAC 173-455-020 Definitions. The definitions of terms contained in chapter 173-400 WAC are incorporated by reference. Unless a different meaning is clearly required by context, the following words and phrases as used in this chapter shall have the following meanings:

(1) **"Fossil fuel"** means natural gas, petroleum, coal, or any form of solid, liquid, or gaseous fuel derived from such material to produce heat for the generation of electricity.

(2) **"Solid fuel burning device"** (same as solid fuel heating device) means a device that burns wood, coal, or any other nongaseous or nonliquid fuels, and includes any device burning any solid fuel except those prohibited by WAC 173-433-120. This also includes devices used for aesthetic or space-heating purposes in a private residence or commercial establishment, which has a heat input less than one million British thermal units per hour.

(3) **"Weather modification and control"** means changing or attempting to change or control by artificial methods, the natural development of any or all atmospheric cloud forms or precipitation forms which occur in the troposphere.

[Statutory Authority: RCW 70.94.181, [70.94.]152, [70.94.]331, [70.94.]650, [70.94.]745, [70.94.]892. 07-11-018 (Order 06-14), § 173-455-020, filed 5/3/07, effective 6/3/07.]

WAC 173-455-030 Applicability. The provisions of this chapter apply to air quality related activities regulated by the department of ecology. The provisions of this chapter do not apply in counties regulated by a local air agency.

[Statutory Authority: RCW 70.94.181, [70.94.]152, [70.94.]331, [70.94.]650, [70.94.]745, [70.94.]892. 07-11-018 (Order 06-14), § 173-455-030, filed 5/3/07, effective 6/3/07.]

WAC 173-455-035 Fee requirement. All programs and services in this chapter require a fee. Unless otherwise stated, no approval of a permit or service for any activity covered in this chapter will be valid until the required fee is paid in full.

[Statutory Authority: RCW 70.94.181, [70.94.]152, [70.94.]331, [70.94.]650, [70.94.]745, [70.94.]892. 07-11-018 (Order 06-14), § 173-455-035, filed 5/3/07, effective 6/3/07.]

WAC 173-455-038 Fees not included. This chapter contains all fees required by the air quality program except the following:

(1) Air operating permit program - fees can be found in chapter 173-401 WAC.

(2) Ag burning - fees can be found in chapter 173-430 WAC.

(3) Motor vehicle emission inspection - fees can be found in chapter 173-422 WAC.

[Statutory Authority: RCW 70.94.181, [70.94.]152, [70.94.]331, [70.94.]650, [70.94.]745, [70.94.]892. 07-11-018 (Order 06-14), § 173-455-038, filed 5/3/07, effective 6/3/07.]

WAC 173-455-040 Air contaminant source registration fees. (1) Registration fee determination. In counties without an active local air pollution control authority, ecology shall establish registration fees based on workload using the process outlined below. The fees collected shall be sufficient to cover the direct and indirect costs of administering the registration program within ecology's jurisdiction.

(2) Budget preparation. Ecology shall conduct a workload analysis projecting resource requirements for administering the registration program. Workload estimates shall be prepared on a biennial basis and shall estimate the resources required to perform registration program activities listed in

WAC 173-400-099(2). Ecology shall prepare a budget for administering the registration program using workload estimates identified in the workload analysis for the biennium.

(3) Registration fee schedule. Ecology's registration program budget shall be distributed to sources located in its jurisdiction according to the following:

(a) Sources requiring periodic registration and inspections shall pay an annual registration fee of four hundred dollars.

(b) Sources requiring annual registration and inspections shall pay a registration fee comprised of the following three components:

(i) Flat component. This portion of a source's fee shall be calculated by the equal division of thirty-five percent of the budget amount allocated to annual registration sources by the total number of sources requiring annual registration.

(ii) Complexity component. Each source is assigned a complexity rating of 1, 3, or 5 which is based on the estimated amount of time needed to review and inspect the source. This portion of the fee is calculated by dividing forty percent of the budget amount allocated to annually registered sources by the total complexity of sources located in ecology's jurisdiction. The quotient is then multiplied by an individual source's complexity rating to determine that source's complexity portion of the fee.

(iii) Emissions component. This portion of a source's fee is calculated by dividing twenty-five percent of the budget amount allocated to annually registered sources by the total billable emissions from those sources. The quotient is then multiplied by an individual source's billable emissions to determine that source's emissions portion of the fee. Billable emissions include all air pollutants except carbon monoxide and total suspended particulate.

(4) Regulatory orders. Owners or operators registering a source as a synthetic minor must obtain a regulatory order which limits the source's emissions. The owner will be required to pay a fee based on the amount of time required to research and write the order multiplied by an hourly rate of sixty dollars.

(5) Fee reductions for pollution prevention initiatives. Ecology may reduce registration fees for an individual source if that source demonstrates the use of approved pollution prevention measures or best management practices beyond those required of the source.

(6) Fee reductions for economic hardships. If a small business owner believes the registration fee results in an extreme economic hardship, the small business owner may request an extreme hardship fee reduction. The owner or operator must provide sufficient evidence to support a claim of an extreme hardship. The factors which ecology may consider in determining whether an owner or operator has special economic circumstances and in setting the extreme hardship fee include: Annual sales; labor force size; market conditions which affect the owner's or operator's ability to pass the cost of the registration fee through to customers; average annual profits; and cumulative effects of multiple site ownership. In no case will a registration fee be reduced below two hundred dollars.

(7) Fee payments. Fees specified in this section shall be paid within thirty days of receipt of ecology's billing statement. All fees collected under this regulation shall be made payable to the Washington department of ecology. A late fee surcharge of fifty dollars or ten percent of the fee, whichever is more, may be assessed for any fee not received after the thirty-day period.

(8) Dedicated account. All registration fees collected by ecology shall be deposited in the air pollution control account.

(9) Tracking revenues, time, and expenditures. Ecology shall track revenues collected under this subsection on a source-specific basis. Ecology shall track time and expenditures on the basis of ecology budget functions.

(10) Additional registration fee for fossil-fueled electric generating facilities. A fossil-fueled electric generating facility subject to the provisions of chapter 80.70 RCW and RCW 70.94.892, is subject to additional fees pursuant to that chapter.

[Statutory Authority: RCW 70.94.181, [70.94.]152, [70.94.]331, [70.94.]650, [70.94.]745, [70.94.]892. 07-11-018 (Order 06-14), § 173-455-040, filed 5/3/07, effective 6/3/07.]

WAC 173-455-050 Carbon dioxide mitigation program fees. (1) **Statutory authorization.** RCW 70.94.892 authorizes the department to determine, assess, and collect fees sufficient to cover costs to review and approve or deny the carbon dioxide mitigation plan components of an order of approval. The order of approval will specify costs to monitor conformance related to the carbon dioxide mitigation plan.

(2) **Fees.** The fees for the carbon dioxide mitigation program are described in this section and listed in the table below. The fees listed are added to the fees established in WAC 173-455-120, when the carbon dioxide mitigation plan requirements are triggered.

Activity	Fee
a. Application review	$65.00/hr.[1] not to exceed $500.00
b. Mitigation plan approval	
i. Payment to third party	$100.00[2]
ii. Purchase of CO_2 credits	$65.00/hr.[3]
iii. Direct investment	$65.00/hr.[4]
c. Routine compliance monitoring	
i. Payment to third party	$100.00[5] annually until full amountpaid
ii. Purchase of CO_2 credits	$65.00/hr.[6]
iii. Applicant controlled project	$65.00/hr.[6]

[1] Estimated using an EE3 per hour rate with a cap.

[2] Small fee primarily to check math and that the source is using an EFSEC approved qualified organization.

[3] Estimated EE3 per hour rate to check that the credits purchased will be verifiable and from a reputable trading or marketing organization.

[4] Estimated using an EE3 per hour rate.

[5] Same as rationale for [2] above.

[6] Verify and confirm credits with the trading or marketing organization.

(3) The department or authority may use RCW 70.94.085 to structure a cost-reimbursement agreement with the applicant.

[Statutory Authority: RCW 70.94.181, [70.94.]152, [70.94.]331, [70.94.]650, [70.94.]745, [70.94.]892. 07-11-018 (Order 06-14), § 173-455-050, filed 5/3/07, effective 6/3/07.]

WAC 173-455-060 Solid fuel retail sales fee. (1) A person selling a solid fuel burning device at retail shall collect a fee from the buyer, pursuant to RCW 70.94.483.

(2) The fee shall be:

(a) Set at a minimum of thirty dollars on January 1, 1992. Thereafter, ecology may annually adjust the fee to account for inflation as determined by the office of the state economic and revenue forecast council. Adjustments in the fee should be rounded down to the nearest dollar.

(b) Applicable to all new and used solid fuel burning devices.

(c) Procedures for masonry fireplaces. Generally, contractors will collect, pay, and report the fee to the department of revenue on the combined excise tax return for the tax reporting period during which the retail sales tax is billed to the customer for the construction of the masonry fireplace. (See WAC 458-20-170 for a detailed explanation.) Collection and payment of the fee by contractors shall be in accordance with the following:

(i) A masonry contractor or other subcontractor who builds a masonry fireplace. The retail sale occurs at the time the general or prime contractor or customer is billed for the work. The masonry contractor or other subcontractor must collect the fee and pay it to the department of revenue, unless the masonry contractor or other subcontractor has received a resale certificate from the general or prime contractor. The fee shall be reported on the combined excise tax return.

(ii) A general or prime contractor building a custom building. The retail sale occurs at the time the customer is billed for the construction. The fee is charged and reported with the first progress payment after the masonry fireplace has been substantially completed. If a general or prime contractor subcontracts the work on a custom building to a masonry or other contractor, the general or prime contractor may give the masonry or other subcontractor a resale certificate. The general or prime contractor is responsible to collect the fee and pay it to the department of revenue. The fee is reported on the combined excise tax return.

(iii) A general or prime contractor building a speculation building. The fee is required to be paid at the time the fireplace is complete. The fee must be reported to the department of revenue on a combined excise tax return and paid to the department of revenue. If the prime or general contractor subcontracts the building of the masonry fireplace to a masonry contractor or other subcontractor, the general or prime contractor may not give a resale certificate to the masonry or other subcontractor. The masonry or other subcontractor must collect and pay the fee to the department of revenue as provided in (c)(i) of this subsection.

(d) Procedures for all other solid fuel burning devices. Collected by the retailer at the time of sale and remitted to the department of revenue in conjunction with the retail sales tax under chapter 82.08 RCW.

(3) If the retailer or contractor fails to collect and remit the fee to the department of revenue as prescribed in chapter 82.08 RCW, the retailer or contractor shall be personally liable to the state for the amount of the fee, with subsequent actions taken in accordance with the collection provisions of chapter 82.32 RCW.

(4) Beginning July 1, 1990, and each calendar quarter thereafter, the funds collected under RCW 70.94.483 shall be used solely for the purposes of public education and enforcement of the solid fuel burning device program. The department shall distribute the funds from the woodstove education and enforcement account as follows:

(a) Sixty-six percent of the funds shall be distributed to those local air authorities with enforcement programs, based upon the fraction of the total state population residing in the counties within their respective jurisdictions. Population figures used to establish this fraction shall be determined by the office of financial management. Where an activated local air authority does not exist or does not implement an enforcement program, or elects not to receive the funds, ecology shall retain the funds that would otherwise be distributed under this subsection; and

(b) Thirty-four percent of the funds shall be distributed to ecology for the purposes of enforcement and educating the public about:

(i) The effects of solid fuel burning device emissions upon health and air quality; and

(ii) Methods of achieving better efficiency and emission performance from solid fuel burning devices.

[Statutory Authority: RCW 70.94.181, [70.94.]152, [70.94.]331, [70.94.]650, [70.94.]745, [70.94.]892. 07-11-018 (Order 06-14), § 173-455-060, filed 5/3/07, effective 6/3/07.]

WAC 173-455-070 Weather modification fees. (1) Procedures for issuing license. In accordance with WAC 173-495-060, an applicant shall pay a fee of one hundred dollars to the state of Washington to obtain a license.

(2) Period of license. In accordance with WAC 173-495-060, an applicant shall pay a fee of one hundred dollars made payable to the state of Washington for a license renewal.

(3) Permit requirements. In accordance with WAC 173-495-070, the applicant shall pay a permit fee of one and one-half percent of the estimated cost of the operation. The estimated cost will be computed by ecology from available data.

[Statutory Authority: RCW 70.94.181, [70.94.]152, [70.94.]331, [70.94.]650, [70.94.]745, [70.94.]892. 07-11-018 (Order 06-14), § 173-455-070, filed 5/3/07, effective 6/3/07.]

WAC 173-455-100 Control technology fees. (1) General. Ecology may assess and collect a fee as authorized in RCW 70.94.154 and described in subsections (2) through (5) of this section.

(2) Fee schedule for source-specific determinations where RACT analysis and determination are performed by ecology.

(a) Basic RACT analysis and determination fee:

(i) Low complexity (the analysis addresses one type of emission unit) - one thousand five hundred dollars;

(ii) Moderate complexity (the analysis addresses two to five types of emissions units) - seven thousand five hundred dollars;

(iii) High complexity (the analysis addresses more than five types of emission units) - fifteen thousand dollars.

(b) Additional charges based on criteria pollutant emissions: In addition to those fees required under (a) of this subsection, a fee will be required for a RACT analysis and determination for an emission unit or multiple emission units of uniform design that, individually or in the aggregate, emit

one hundred tons per year or more of any criteria pollutant - two thousand dollars.

(c) Additional charges based on toxic air pollutant emissions: In addition to those fees required under (a) and (b) of this subsection, the following fees will be required as applicable:

(i) RACT analysis and determination for an emissions unit or multiple emissions units of uniform design that, individually or in the aggregate, emit more than two tons per year but not more than ten tons per year of any toxic air pollutant - one thousand dollars; or

(ii) RACT analysis and determination for an emissions unit or multiple emissions units of uniform design that, individually or in the aggregate, emit more than ten tons per year of any toxic air pollutant - two thousand dollars.

(3) Fee schedule for source-specific determinations where RACT analysis is performed by the source and review and determination conducted by ecology.

(a) Basic RACT review and determination fees:

(i) Low complexity (the analysis addresses one type of emission unit) - one thousand dollars;

(ii) Moderate complexity (the analysis addresses two to five types of emissions units) - five thousand dollars;

(iii) High complexity (the analysis addresses more than five types of emission units) - ten thousand dollars.

(b) Additional charges based on criteria pollutant emissions: In addition to those fees required under (a) of this subsection, a fee will be required for a RACT analysis and determination for an emission unit or multiple emissions units of uniform design that, individually or in the aggregate, emit one hundred tons per year or more of any criteria pollutant - one thousand dollars.

(c) Additional charges based on toxic air pollutant emissions: In addition to those fees required under (a) and (b) of this subsection, the following fees will be required as applicable:

(i) RACT analysis and determination for an emissions unit or multiple emissions units of uniform design that, individually or in the aggregate, emit more than two tons per year but not more than ten tons per year of any toxic air pollutant - five hundred dollars; or

(ii) RACT analysis and determination for an emissions unit or multiple emissions units of uniform design that, individually or in the aggregate, emit more than ten tons per year of any toxic air pollutant - one thousand dollars.

(4) Fee schedule for reviews authorized under RCW 70.94.153 for the replacement or substantial alteration of control technology.

(a) Notice of construction application. Review and approval of notice of construction application (NOCA) for replacement or substantial alteration of control technology - three hundred fifty dollars.

(b) RACT analysis and determination. Review and approval of a RACT analysis and determination for affected emission unit - five hundred dollars.

(5) Fee schedule for categorical RACT determinations. Fees for categorical RACT determinations (for categories with more than three sources) shall be assessed as shown below. The fees described in (a) of this subsection shall be based on the most complex source within a category. Except as provided in (b) and (d) of this subsection, fees for individual sources in the category will be determined by dividing the total source category fee by the number of sources within the category.

(a) RACT analysis and determination (RACT analysis performed by ecology with assistance from sources):

(i) Low complexity source category (average source emissions of individual criteria pollutants are all less than twenty tons per year, average source emissions of individual toxic air pollutants are all less than two tons per year, or the analysis addresses one type of emission unit) - twenty-five thousand dollars;

(ii) Moderate complexity source category (average source emissions of one or more individual criteria pollutants are greater than twenty tons per year and less than one hundred tons per year, average source emissions of one or more individual toxic air pollutants are greater than two tons per year and less than ten tons per year, or the analysis addresses two to five types of emissions units) - fifty thousand dollars; or

(iii) High complexity source category (average source emissions of one or more individual criteria pollutants exceed one hundred tons per year, average source emissions of one or more individual toxic air pollutants exceed ten tons per year, or the analysis addresses more than five types of emission units) - one hundred thousand dollars.

(b) If an emission unit is being evaluated for more than one categorical RACT determination within a five-year period, ecology will charge the owner or operator of that emission unit one fee and the fee will reflect the higher complexity categorical RACT determination.

(c) Ecology may adjust the fee to reflect workload savings from source involvement in source category RACT determination.

(d) Ecology may approve alternate methods for allocating the fee among sources within the source category.

(6) Small business fee reduction. The RACT analysis and determination fee identified in subsections (2) through (5) of this section may be reduced for a small business.

(a) To qualify for the small business RACT fee reduction, a business must meet the requirements of "small business" as defined in RCW 43.31.025.

(b) To receive a fee reduction, the owner or operator of a small business must include information in an application demonstrating that the conditions of (a) of this subsection have been met. The application must be signed:

(i) By an authorized corporate officer in the case of a corporation;

(ii) By an authorized partner in the case of a limited or general partnership; or

(iii) By the proprietor in the case of a sole proprietorship.

(c) Ecology may verify the application information and if the owner or operator has made false statements, deny the fee reduction request and revoke previously granted fee reductions.

(d) For small businesses determined to be eligible under (a) of this subsection, the RACT analysis and determination fee shall be reduced to the greater of:

(i) Fifty percent of the RACT analysis and determination fee; or

(ii) Two hundred fifty dollars.

(e) If due to special economic circumstances, the fee reduction determined under (d) of this subsection imposes an extreme hardship on a small business, the small business may request an extreme hardship fee reduction. The owner or operator must provide sufficient evidence to support a claim of an extreme hardship. The factors which ecology may consider in determining whether an owner or operator has special economic circumstances and in setting the extreme hardship fee include: Annual sales; labor force size; market conditions which affect the owner's or operator's ability to pass the cost of the RACT analysis and determination fees through to customers; and average annual profits. In no case will a RACT analysis and determination fee be reduced below one hundred dollars.

(7) Fee reductions for pollution prevention initiatives. Ecology may reduce RACT analysis and determination fees for an individual source if that source is using approved pollution prevention measures.

(8) Fee payments. Fees specified in subsection (4)(a) of this section shall be paid at the time a notice of construction applications is submitted to the department. Other fees specified in subsections (2) through (7) of this section shall be paid no later than thirty days after receipt of an ecology billing statement. For fees specified in subsection (5) of this section, a billing for one-half of the payment from each source will be mailed when the source category rule-making effort is commenced as noted by publication of the CR-101 form in the *Washington State Register*. A billing for the second half of the payment will be mailed when the proposed rule is published in the *Washington State Register*. No order of approval or other action approving or identifying a source to be at RACT will be issued by the department until all fees have been paid by the source. All fees collected under this regulation shall be made payable to the Washington department of ecology.

(9) Dedicated account. All control technology fees collected by the department from permit program sources shall be deposited in the air operating permit account created under RCW 70.94.015. All control technology fees collected by the department from nonpermit program sources shall be deposited in the air pollution control account.

(10) Tracking revenues, time, and expenditures. Ecology shall track revenues on a source-specific basis. For purposes of source-specific determinations under subsections (2) through (4) of this section, ecology shall track time and expenditures on the basis of source complexity categories. For purposes of categorical determinations under subsection (5) of this section, ecology shall track time and expenditures on a source-category basis.

(11) Periodic review. Ecology shall review and, as appropriate, update this section at least once every two years.

[Statutory Authority: RCW 70.94.181, [70.94.]152, [70.94.]331, [70.94.]-650, [70.94.]745, [70.94.]892. 07-11-018 (Order 06-14), § 173-455-100, filed 5/3/07, effective 6/3/07.]

WAC 173-455-110 Registration fees for sources emitting gas vapors. Registration fees shall accompany the registration form outlined in WAC 173-491-030 and are as follows: Gasoline loading terminals: Five hundred dollars; bulk gasoline plants: Two hundred dollars; gasoline dispensing facilities: One hundred dollars, or a greater amount duly adopted by a local air pollution authority. The amount of the fees collected shall only be used to administer the registration program for facilities subject to this chapter.

[Statutory Authority: RCW 70.94.181, [70.94.]152, [70.94.]331, [70.94.]-650, [70.94.]745, [70.94.]892. 07-11-018 (Order 06-14), § 173-455-110, filed 5/3/07, effective 6/3/07.]

WAC 173-455-120 New source review fees. (1) Applicability. Every person required to submit a notice of construction application to the department of ecology as authorized in RCW 70.94.152 for establishment of any proposed new source or emissions unit(s) shall pay fees as set forth in subsections (2) and (3) of this section. Persons required to submit a notice of construction application to a local air authority may be required to pay a fee as required by the local permitting authority. Persons required to submit a notice of construction application to a local air authority may be required to pay a fee to ecology to cover the costs of review pursuant to WAC 173-400-720, second tier analysis pursuant to WAC 173-460-090, and risk management decisions pursuant to WAC 173-460-100 as set forth in subsection (3) of this section. Fees assessed under this section shall apply without regard to whether an order of approval is issued or denied.

(2) Basic review fees. All owners or operators of proposed new sources are required to pay a basic review fee. The basic review fee covers the costs associated with preapplication assistance, completeness determination, BACT determination, technical review, public involvement and approval/denial orders. Complexity determination shall be based on the project described in the notice of construction application. The basic review fees are either (a) or (b) of this subsection:

(a) Basic new source review fees.

Source type	Clarifying criteria	Fee
Basic Review Fees		
Low complexity source	Emissions increase of individual pollutants are all less than one-half of the levels established in the definition of "emission threshold" in WAC 173-400-030, or emissions increase of individual toxic air pollutants are all less than 2.0 tons/year	$1250
Moderate complexity	Emissions increase of one or more individual pollutants are greater than one-half of, and less than, the levels established in the definition of "emission threshold" in WAC 173-400-030, or emissions increase of one or more toxic air pollutants are greater than 2.0 tons/year and less than 10.0 tons/year	$8000

Source type	Clarifying criteria	Fee
High complexity	Emissions increase of one or more pollutants are greater than the levels established in the definition of "emission threshold" in WAC 173-400-030, or emissions increase of one or more toxic air pollutants are greater than 10.0 tons/year	$18,000

(b) New source review fees for specific source categories.

Source type		Clarifying criteria	Fee
Dry cleaners			$250
Gasoline stations			$250
Storage tanks			
	< 20,000 gallons		$250
	20,000 - 100,000 gallons		$650
	> 100,000 gallons		$900
Chromic acid plating and anodizing identified in WAC 173-460-060			$250
Solvent metal cleaners identified in WAC 173-460-060			$250
Abrasive blasting identified in WAC 173-460-060			$250
New emission units or activities that qualify as insignificant emission units under WAC 173-401-530 whether located at a chapter 173-401 WAC source or nonchapter 173-401 WAC source			$250
Application for coverage under a general order of approval		WAC 173-400-560 and criteria included in a specific general order of approval	$500
Nonroad engines			
Less than a total of 500 installed horsepower			$500
More than 500 horsepower and less than a total of 2000 installed horsepower			$900
More than 2000 horsepower and less than a total of 5000 installed horsepower			$2000
More than 5000 horsepower and less than a total of 10,000 installed horsepower			$4000
More than a total of 10,000 installed horsepower			$7500

(c) Additional units. An owner or operator proposing to build more than one identical emission unit shall be charged a fee for the additional units equal to one-third the basic review fee of the first unit.

(3) Additional charges. In addition to those fees required under subsection (2)(a) through (c) of this section, the following fees will be required as applicable:

(a) Major NSR actions under WAC 173-400-720 and 173-400-112.

Activity	Clarifying criteria	Fee
Prevention of significant deterioration review or increase in a PAL limitation	WAC 173-400-720	$15,000
Establishing LAER and offset requirements	WAC 173-400-112	$10,000
Establishing or renewal of clean unit status	Per 40 CFR 52.21(y)	$1500
Pollution control project approval	Per 40 CFR 52.21(z)	$1500
Establishment of a PAL	Per 40 CFR 52.21(aa)	$4000
Renewal of a PAL	Per 40 CFR 52.21(aa)	$4000
Expiration of a PAL	Per 40 CFR 52.21(aa)	$12,000
PSD permit revisions		
All except administrative	WAC 173-400-750	$10,000
Administrative revisions	WAC 173-400-750	$1500

(b) Other actions.

Activity	Clarifying criteria	Fee
Tier II toxic air pollutant impact review		$10,000
Tier III toxic air pollutant impact review		$10,000
Case-by-case MACT determinations		$12,500
Fossil-fueled electric generating unit	Applicability criteria found in chapter 80.70 RCW	Fees listed in rule implementing RCW 70.94.892 and chapter 80.70 RCW
Changes to existing orders of approval, Tier I review, Tier II review, or other action identified above.		

Activity	Clarifying criteria	Fee
Activity		Fee
Modification to order of approval		50% of the fee charged in WAC 173-455-120 (2)(a)
Modification of Tier II approval		50% of the fee charged in WAC 173-455-120 (2)(b)

(4) Small business fee reduction. The new source review fee identified in subsections (2) and (3) of this section may be reduced for a small business.

(a) To qualify for the small business new source review fee reduction, a business must meet the requirements of "small business" as defined in RCW 19.85.020. In RCW 19.85.020, "small business" means any business entity, including a sole proprietorship, corporation, partnership, or other legal entity, that is owned and operated independently from all other businesses, that has the purpose of making a profit, and that has fifty or fewer employees.

(b) To receive a fee reduction, the owner or operator of a small business must include information in the application demonstrating that the conditions of (a) of this subsection have been met. The application must be signed:

(i) By an authorized corporate officer in the case of a corporation;

(ii) By an authorized partner in the case of a limited or general partnership; or

(iii) By the proprietor in the case of a sole proprietorship.

(c) Ecology may verify the application information and, if the owner or operator has made false statements, deny the fee reduction request and revoke previously granted fee reductions.

(d) For small businesses determined to be eligible under (a) of this subsection, the new source review fee shall be reduced to the greater of:

(i) Fifty percent of the new source review fee; or

(ii) Two hundred fifty dollars.

(e) If, due to special economic circumstances, the fee reduction determined under (d) of this subsection imposes an extreme hardship on a small business, the small business may request an extreme hardship fee reduction. The owner or operator must provide sufficient evidence to support a claim of an extreme hardship. The factors which ecology may consider in determining whether an owner or operator has special economic circumstances and in setting the extreme hardship fee include: Annual sales; labor force size; market conditions which affect the owner's or operator's ability to pass the cost of the new source review fees through to customers; and average annual profits. In no case will a new source review fee be reduced below one hundred dollars.

(5) Fee reductions for pollution prevention initiatives. Ecology may reduce the fees defined in subsections (2) and (3) of this section where the owner or operator of the proposed source demonstrates that approved pollution prevention measures will be used.

(6) Fee payments. Fees specified in subsections (2) through (5) of this section shall be paid at the time a notice of construction application is submitted to the department. A notice of construction application is considered incomplete until ecology has received the appropriate new source review payment. Additional charges assessed pursuant to subsection (3) of this section shall be due thirty days after receipt of an ecology billing statement. All fees collected under this regulation shall be made payable to the Washington department of ecology.

(7) Dedicated account. All new source review fees collected by the department shall be deposited in the air pollution control account.

(8) Tracking revenues, time, and expenditures. Ecology shall track revenues collected under this subsection on a source-specific basis. Ecology shall track time and expenditures on the basis of complexity categories.

(9) Periodic review. Ecology shall review and, as appropriate, update this section at least once every two years.

[Statutory Authority: RCW 70.94.181, [70.94.]152, [70.94.]331, [70.94.]-650, [70.94.]745, [70.94.]892. 07-11-018 (Order 06-14), § 173-455-120, filed 5/3/07, effective 6/3/07.]

WAC 173-455-130 Air pollution standards variance fee. The department shall charge a fee of sixty-five dollars per hour to process a variance request in accordance with WAC 173-400-180.

[Statutory Authority: RCW 70.94.181, [70.94.]152, [70.94.]331, [70.94.]-650, [70.94.]745, [70.94.]892. 07-11-018 (Order 06-14), § 173-455-130, filed 5/3/07, effective 6/3/07.]

WAC 173-455-140 Portable and temporary source permit fee. The department shall charge a fee of sixty-five dollars per hour to process and write a portable or temporary source permit issued under WAC 173-400-035.

[Statutory Authority: RCW 70.94.181, [70.94.]152, [70.94.]331, [70.94.]-650, [70.94.]745, [70.94.]892. 07-11-018 (Order 06-14), § 173-455-140, filed 5/3/07, effective 6/3/07.]

Chapter 173-480 WAC

AMBIENT AIR QUALITY STANDARDS AND EMISSION LIMITS FOR RADIONUCLIDES

WAC

WAC 173-480-030 Definitions. Unless a different meaning is clearly required by context words and phrases used in this chapter shall have the following meanings: General terms common with other chapters as defined in chapter 173-400 WAC, and terms specific to the standards and limits of radionuclides as defined in this section.

(1) "ALARA" means as low as reasonably achievable making every reasonable effort to maintain exposures to radiation as far below the dose standards in this chapter as is practical, consistent with the purpose for which the licensed activity is undertaken, taking into account the state of technology, the economics of improvements in relation to the state of

technology, the economics of improvements in relation to benefits to the public health and safety, and other socioeconomic considerations, and in relation to the utilization of nuclear energy, ionizing radiation, and radioactive materials in the public interest.

(2) "As low as reasonably achievable control technology" (ALARACT) means the use of radionuclide emission control technology that achieves emission levels that are consistent with the philosophy of ALARA.

(3) Best available radionuclide control technology "BARCT" means technology which will result in a radionuclide emission limitation based on the maximum degree of reduction for radionuclides which would be emitted from any proposed new or modified emission units which the permitting authority on a case-by-case basis, taking into account energy, environmental, and economic impacts and other costs, determines is achievable for such emission unit or modification through application of production processes or available methods, systems, and techniques. In no event shall application of best available radionuclide technology result in emissions of radionuclides which would exceed the ambient annual standard limitation specified in this chapter.

(4) "Effective dose equivalent" means the sum of the products of absorbed dose and appropriate factors to account for differences in biological effectiveness due to the quality of radiation and its distribution in the body of reference man.

(5) "Radionuclide" means any nuclide that emits radiation.

(6) "Rem" means a unit of dose equivalent radiation.

[Statutory Authority: RCW 70.94.331 and 70.94.422. 07-12-003 (Order 06-15), § 173-480-030, filed 5/23/07, effective 6/23/07. Statutory Authority: RCW 70.94.331. 86-10-053 (Order 86-04), § 173-480-030, filed 5/7/86.]

WAC 173-480-040 Ambient standard. Emissions of radionuclides in the air shall not cause a maximum effective dose equivalent of more than 10 mrem/y to the whole body to any member of the public. Compliance with the standard shall be determined by procedures in WAC 173-480-070.

[Statutory Authority: RCW 70.94.331 and 70.94.422. 07-12-003 (Order 06-15), § 173-480-040, filed 5/23/07, effective 6/23/07. Statutory Authority: RCW 70.94.331. 86-10-053 (Order 86-04), § 173-480-040, filed 5/7/86.]

WAC 173-480-050 General standards for maximum permissible emissions. (1) All radionuclide emission units are required to meet the emission standards in this chapter. At a minimum all emission units shall meet chapter 246-247 or 246-248 WAC (as applicable) requiring every reasonable effort to maintain radioactive materials in effluents to unrestricted areas, as low as reasonably achievable (ALARA). For the purposes of this chapter, control equipment of facilities operating under ALARA shall be defined as reasonably achievable control technology (RACT).

(2) Whenever another federal or state regulation or limitation in effect controls the emission of radionuclides to the ambient air, the more stringent control of emissions shall govern.

[Statutory Authority: RCW 70.94.331 and 70.94.422. 07-12-003 (Order 06-15), § 173-480-050, filed 5/23/07, effective 6/23/07. Statutory Authority: RCW 70.94.331. 86-10-053 (Order 86-04), § 173-480-050, filed 5/7/86.]

WAC 173-480-070 Emission monitoring and compliance procedures. (1) The procedures specified in chapter 246-247 or 246-248 WAC (as applicable) shall be used to determine compliance with the standard. Radionuclide emissions shall be determined and dose equivalents to members of the public shall be calculated using department of health approved sampling procedures, department of health approved models, or other procedures, including those based on environmental measurements that department of health has determined to be suitable.

(2) Compliance with this standard shall be determined by calculating the dose to members of the public at the point of maximum annual air concentration in an unrestricted area where any member of the public may be.

[Statutory Authority: RCW 70.94.331 and 70.94.422. 07-12-003 (Order 06-15), § 173-480-070, filed 5/23/07, effective 6/23/07. Statutory Authority: RCW 70.94.331. 86-10-053 (Order 86-04), § 173-480-070, filed 5/7/86.]

WAC 173-480-080 Regulatory actions and penalties. (1) The department or any activated local air pollution control authority may enforce this chapter with the provisions of WAC 173-400-230, Regulatory actions; and 173-400-240, Criminal penalties.

(2) The responsible person may also be subject to the provisions of RCW 34.05.350, Emergency rules and amendments; RCW 70.98.130, Administrative procedure; RCW 70.98.140, Injunction proceedings; and RCW 70.98.200, Penalties as cited by the department of health.

[Statutory Authority: RCW 70.94.331 and 70.94.422. 07-12-003 (Order 06-15), § 173-480-080, filed 5/23/07, effective 6/23/07. Statutory Authority: RCW 70.94.331. 86-10-053 (Order 86-04), § 173-480-080, filed 5/7/86.]

Chapter 173-491 WAC

EMISSION STANDARDS AND CONTROLS FOR SOURCES EMITTING GASOLINE VAPORS

WAC

WAC 173-491-030 Registration. (1) The owner or operator of a gasoline loading terminal, bulk gasoline plant, or gasoline dispensing facility subject to the provisions of WAC 173-491-040 (2) through (5) shall register annually the facility with ecology or local air authority. Annual registration shall be made by the owner or operator on a form provided by ecology or local air authority within sixty days of receipt of the form. Such registration form shall require information relevant to determining whether the facility is in compliance with the requirements of this chapter and be accompanied by fees outlined in chapter 173-455 WAC.

(2) Administration of the registration program shall include:

(a) Initial registration and annual or other periodic reports from the source owner providing information directly related to air pollution registration.

(b) On-site inspections necessary to verify compliance with registration requirements.

(c) Data storage and retrieval systems necessary for support of the registration program.

(d) Emission inventory reports and emission reduction credits computed from information provided by sources pursuant to registration.

(e) Staff review, including engineering analysis for accuracy and currentness, of information provided by sources pursuant to registration program requirements.

(f) Clerical and other office support provided in direct furtherance of the registration program.

(g) Administrative support provided in directly carrying out the registration program.

(3) Ecology or local air authority will provide a written verification of registration to owners or operators of facilities subject to the provisions of WAC 173-491-040 (2) through (5). Such verification shall be available for inspection by ecology or local air authority personnel during normal business hours.

(4) The owner or operator of a gasoline loading terminal or a gasoline dispensing facility shall maintain total annual gasoline throughput records for the most recent two calendar years. Such records shall be available for inspection by ecology or local air authority personnel during normal business hours.

[Statutory Authority: RCW 70.94.181, [70.94.]152, [70.94.]331, [70.94.]-650, [70.94.]745, [70.94.]892, [70.94.]011. 07-19-005 (Order 07-10), § 173-491-030, filed 9/6/07, effective 10/7/07. Statutory Authority: RCW 70.94.-331. 91-14-101 (Order 90-63), § 173-491-030, filed 7/2/91, effective 8/2/91.]

Chapter 173-495 WAC
WEATHER MODIFICATION

WAC

WAC 173-495-060 Procedures for issuing license. (1) Any person or organization desiring to obtain a license or restricted license shall apply to ecology on the form prescribed, listing name, business address, etc.

(2) Ecology may require additional information of the applicant to determine competency in the field of meteorology.The additional information must be requested of the applicant by certified mail, and must be submitted in writing.

(3) Before issuing any license, the applicant shall pay a fee as outlined in chapter 173-455 WAC.

(4) The application shall be deemed received by ecology when received at the Headquarters Offices, Air Quality Program, Department of Ecology, P.O. Box 47600, Olympia, Washington, 98504-7600.

[Statutory Authority: RCW 70.94.181, [70.94.]152, [70.94.]331, [70.94.]-650, [70.94.]745, [70.94.]892, [70.94.]011. 07-19-005 (Order 07-10), § 173-495-060, filed 9/6/07, effective 10/7/07. Statutory Authority: RCW 79.94.331, chapters 70.94 and 43.37 RCW. 00-01-009 (Order 99-14), § 173-495-060, filed 12/3/99, effective 1/3/00. Statutory Authority: RCW 70.94.-331. 90-19-062 (Order 90-10), § 173-495-060, filed 9/17/90, effective 10/18/90; Order DE 77-29, § 173-495-060, filed 12/29/77. Formerly chapter 508-20 WAC.]

WAC 173-495-065 Period of license. (1) Licenses issued under chapter 43.37 RCW and these regulations are effective for a period of one year, and will terminate at the end of the calendar year of issuance.

(2) The licensee may request a renewal of the license no later than December 1st. Ecology shall review the license renewal request after receiving a renewal fee outlined in chapter 173-455 WAC.

(3) In the determination of whether or not to grant a license renewal, ecology shall consider information provided by the applicant on the facts and circumstances used to issue the original permit that were changed or altered. If ecology determines that the licensee no longer meets the requirements of competency in the field of meteorology, ecology may refuse to renew the license.

[Statutory Authority: RCW 70.94.181, [70.94.]152, [70.94.]331, [70.94.]-650, [70.94.]745, [70.94.]892, [70.94.]011. 07-19-005 (Order 07-10), § 173-495-065, filed 9/6/07, effective 10/7/07. Statutory Authority: RCW 79.94.331, chapters 70.94 and 43.37 RCW. 00-01-009 (Order 99-14), § 173-495-065, filed 12/3/99, effective 1/3/00. Statutory Authority: RCW 70.94.-331. 90-19-062 (Order 90-10), § 173-495-065, filed 9/17/90, effective 10/18/90; Order DE 77-29, § 173-495-065, filed 12/29/77. Formerly chapter 508-20 WAC.]

WAC 173-495-070 Permit requirements. (1) Each weather modification operation not specifically exempted by statute or these regulations requires a permit. A separate permit must be issued for each operation.

(2) A license holder desiring to conduct a weather modification operation shall submit an application for a permit to ecology.

(3) The permit applicant must hold a valid weather modification license from the state of Washington.

(4) The applicant shall publish a notice of intention at least once a week for three consecutive weeks in a newspaper that has general circulation within the county in which the operation is to be conducted or affected.

(5) The licensee shall file proof of publication of the notice of intention with ecology within fifteen days from the date of last publication of the notice.

(6) The notice of intention must contain at least the following:

(a) The name and address of the licensee;

(b) The nature and object of the intended operation and the person or organization on whose behalf it is to be conducted;

(c) The area in which and the appropriate time during which the operation will be conducted;

(d) The area intended to be affected by the operation; and

(e) The materials and methods to be used in conducting the operation.

(7) The applicant shall furnish proof of financial responsibility, as described in WAC 173-495-120 of this chapter.

(8) The applicant shall pay a permit fee outlined in chapter 173-455 WAC.

(9) Before issuing a permit, ecology shall state, in writing, that the weather modification and control activities proposed have been determined to be for the general welfare and public good.

(10) Ecology shall hold a public hearing before any weather modification permit is issued.

[Statutory Authority: RCW 70.94.181, [70.94.]152, [70.94.]331, [70.94.]-650, [70.94.]745, [70.94.]892, [70.94.]011. 07-19-005 (Order 07-10), § 173-495-070, filed 9/6/07, effective 10/7/07. Statutory Authority: RCW 79.94.-331, chapters 70.94 and 43.37 RCW. 00-01-009 (Order 99-14), § 173-495-070, filed 12/3/99, effective 1/3/00. Statutory Authority: RCW 70.94.331. 90-19-062 (Order 90-10), § 173-495-070, filed 9/17/90, effective 10/18/90;

Order DE 77-29, § 173-495-070, filed 12/29/77. Formerly chapter 508-20 WAC.]

Chapter 173-532 WAC

WATER RESOURCES PROGRAM FOR THE WALLA WALLA RIVER BASIN, WRIA-32

WAC

DISPOSITION OF SECTIONS FORMERLY CODIFIED IN THIS CHAPTER

173-532-060	Designation of ground water areas for specific uses. [Statutory Authority: RCW 90.54.050. 83-02-039 (Order DE 82-46), § 173-532-060, filed 12/30/82; Order DE 77-30, § 173-532-060, filed 12/14/77.] Repealed by 07-17-007 (Order 04-08), filed 8/2/07, effective 9/5/07. Statutory Authority: Chapters 90.82, 90.54, 90.22, 90.03, and 90.44 RCW.
173-532-070	Closure of ground water aquifer to further appropriation. [Order DE 77-30, § 173-532-070, filed 12/14/77.] Repealed by 07-17-007 (Order 04-08), filed 8/2/07, effective 9/5/07. Statutory Authority: Chapters 90.82, 90.54, 90.22, 90.03, and 90.44 RCW.
173-532-080	Evaluation of ground water applications. [Order DE 77-30, § 173-532-080, filed 12/14/77.] Repealed by 07-17-007 (Order 04-08), filed 8/2/07, effective 9/5/07. Statutory Authority: Chapters 90.82, 90.54, 90.22, 90.03, and 90.44 RCW.
173-532-110	Regulation review. [Statutory Authority: Chapters 43.27A, 90.22 and 90.54 RCW. 88-13-037 (Order 88-11), § 173-532-110, filed 6/9/88.] Repealed by 07-17-007 (Order 04-08), filed 8/2/07, effective 9/5/07. Statutory Authority: Chapters 90.82, 90.54, 90.22, 90.03, and 90.44 RCW.

WAC 173-532-010 Authority and purpose. (1) This chapter is adopted in accordance with the Watershed Planning Act (chapter 90.82 RCW), Water Resources Act of 1971 (chapter 90.54 RCW), Minimum Water Flows and Levels Act (chapter 90.22 RCW), Regulation of public ground waters (chapter 90.44 RCW), Water code (chapter 90.03 RCW), and the water resources management regulation, chapter 173-500 WAC, which was adopted under the authority of the Water Resources Act of 1971, chapter 90.54 RCW.

(2) This chapter applies to the management of all waters within the Walla Walla River drainage basin located in Washington state.

(3) This chapter shall not affect existing water rights, unless otherwise provided for in the conditions of the water right in question. It shall also not affect federal Indian and non-Indian reserved rights.

(4) The department shall initiate a review of this chapter whenever new information, changing conditions, or statutory modifications make it necessary to consider revisions.

[Statutory Authority: Chapters 90.82, 90.54, 90.22, 90.03, and 90.44 RCW. 07-17-007 (Order 04-08), § 173-532-010, filed 8/2/07, effective 9/5/07; Order DE 77-30, § 173-532-010, filed 12/14/77.]

WAC 173-532-020 Definitions. For purposes of this chapter, the following definitions shall be used.

(1) "Allocation" means the designating of specific amounts of the water resource for specific beneficial uses.

(2) "Appropriation" means the process of legally acquiring the right to specific amounts of the public water resource for application to beneficial uses.

(3) "Consumptive use" means use of water whereby there is diminishment of the amount or quality of the water source.

(4) "Department" means the Washington state department of ecology.

(5) "Director" means the director of the department of ecology.

(6) "Domestic use" means use of water associated with human health and welfare requirements, including water used for drinking, bathing, sanitary purposes, cooking, laundering, and other incidental household uses. Irrigation of lawn and noncommercial garden under the permit exemption in RCW 90.44.050 shall not exceed one-half acre.

(7) "Environmental enhancement project" means a water storage project, above or below ground, that would provide net environmental benefits, with particular emphasis on enhancing salmonids production. Projects that enhance instream flows directly or indirectly qualify under the definition. Projects proposed as mitigation for new consumptive water rights do not qualify under this definition.

(8) "Gravel aquifer" means any geologic formation generally under unconfined, or water table, conditions which consist of sand and gravel and may contain interbedded layers of silt and clay.

(9) "Instream flow" means a level of stream flow, established under chapters 90.54, 90.03, 90.22, and 90.82 RCW, required in perennial streams to preserve wildlife, fish, scenic, aesthetic, and other environmental and navigational values. The term means "base flow" under chapter 90.54 RCW, a "minimum flow" under chapters 90.03 and 90.22 RCW, and "minimum instream flow" under chapter 90.82 RCW. In the *Walla Walla Watershed Plan*, adopted in June 2005 by Walla Walla and Columbia counties, the term "new appropriation flows" has the same meaning as instream flows under this chapter.

(10) "Municipal water supplier" and "municipal water supply purposes" are defined in RCW 90.03.015.

(11) "Nonconsumptive use" means a type of water use where either there is no diversion or withdrawal from a source, or where there is no diminishment of the amount or quality of the water source.

(12) "Perennial stream" means a stream that normally flows year-round.

(13) "Planning unit" means the Walla Walla watershed planning unit, established under chapter 90.82 RCW, and all successors, formally designated by the Walla Walla watershed planning initiating governments. The initiating governments are Columbia and Walla Walla counties, city of Walla Walla, and Gardena Farms Irrigation District No. 13.

(14) "Water right" means a right to make beneficial use of public waters of the state, including any water right established for instream flow purposes.

(15) "Withdrawal" means the extraction of ground water, or the diversion of surface water for a beneficial use.

[Statutory Authority: Chapters 90.82, 90.54, 90.22, 90.03, and 90.44 RCW. 07-17-007 (Order 04-08), § 173-532-020, filed 8/2/07, effective 9/5/07; Order DE 77-30, § 173-532-020, filed 12/14/77.]

WAC 173-532-025 Establishment of stream management units. The department hereby establishes the following stream management units (Table I). The boundaries of the management units are shown in WAC 173-532-120.

Table I
Stream Management Unit Information

Stream Management Unit Name; Management Point (MP) No.; Control Station Gage No.	Control Station by River Mile (RM); Section; Township and Range; Latitude (Lat.) and Longitude (Long.)	Stream Management Reach Description
Mill Creek MP 1 (Mill Creek at Kooskooskie) USGS Gage No. 14013000	RM 21.2; Section 12; T6N, R37E; 46°00'29"N, 118°07'03"W	Mill Creek at confluence with Walla Walla River (Walla Walla River, RM 33) to headwaters, including tributaries.
Walla Walla River MP 5a (Walla Walla River at Detour Road) Department Gage No. 32A100	RM 32.4; Section 31; T7N, R35E; 46°02'36"N, 118°29'24"W	Walla Walla River, RM 32.4 (below confluence of Walla Walla River and Mill Creek) to state line at Walla Walla, including tributaries.
North Fork Touchet River MP 6a (North Fork Touchet above Dayton) Department Gage No. 32E050	RM 0.5; Section 32; T10N, R39E; 46°17'50"N, 117°57'04"W	Mouth of North Fork Touchet River to headwaters, including tributaries.
Touchet River MP 11 (Touchet River at Bolles) Department Gage No. 32B100	RM 40.4; Section 7; T9N, R37E; 46°16'27"N, 118°13'12"W	Touchet River, RM 40.1 to RM 54.9 (confluence of North Fork Touchet River and South Fork Touchet River), including tributaries, excluding North Fork Touchet River and its tributaries.

[Statutory Authority: Chapters 90.82, 90.54, 90.22, 90.03, and 90.44 RCW. 07-17-007 (Order 04-08), § 173-532-025, filed 8/2/07, effective 9/5/07.]

WAC 173-532-030 Establishment of instream flows. (1) The instream flows established in this chapter are based on the recommendations of the planning unit; consultation with the departments of fish and wildlife, agriculture, and community, trade, and economic development; the Confederated Tribes of the Umatilla Indian Reservation; and public input received during the rule-making process.

(2) Instream flows established here are water rights, which protect stream flows from future consumptive appropriations. The instream flow recommendations submitted by the planning unit received the unanimous vote of the planning unit. In accordance with RCW 90.82.080 (2)(a), and unanimous vote of the planning unit, the priority date of the instream flows is the effective date of this chapter.

(3) Instream flow rights shall be protected from impairment by junior water rights and by all future changes and transfers of senior and junior water rights.

(4) Instream flows, expressed in cubic feet per second (cfs), are measured at the management points identified in WAC 173-532-025. For reaches that do not have management points, the flows established for the nearest management point or points (where a tributary with a management point contributes to such flow) apply to those reaches.

(5) Instream flows are established for the stream management units in WAC 173-532-025, as indicated in Table II.

Table II
Instream Flows in the Walla Walla River Basin
(cubic feet per second)

	Stream Management Unit			
Month	Mill Creek MP 1 (Mill Creek at Kooskooskie),USGS Gage No. 14013000	Walla Walla River MP 5a (Walla Walla River at Detour Road), Department Gage No. 32A100	North Fork Touchet River, MP 6a (North Fork Touchet above Dayton), Department Gage No. 32E050	Touchet River MP 11 (Touchet River at Bolles), Department Gage No. 32B100
January	110	250	95	150

Table II
Instream Flows in the Walla Walla River Basin
(cubic feet per second)

	Stream Management Unit			
Month	Mill Creek MP 1 (Mill Creek at Kooskooskie),USGS Gage No. 14013000	Walla Walla River MP 5a (Walla Walla River at Detour Road), Department Gage No. 32A100	North Fork Touchet River, MP 6a (North Fork Touchet above Dayton), Department Gage No. 32E050	Touchet River MP 11 (Touchet River at Bolles), Department Gage No. 32B100
February	125	250	95	150
March	150	350	125	200
April	150	350	125	200
May	125	250	125 Closure	200 Closure
June	100 Closure	Closure	95 Closure	125 Closure
July	53 Closure	Closure	65 Closure	74 Closure
August	41 Closure	Closure	53 Closure	48 Closure
September	41 Closure	Closure	51 Closure	56 Closure
October	48 Closure	Closure	63 Closure	82 Closure
November	100 Closure	Closure	95 Closure	150 Closure
December	110	250	95	150

[Statutory Authority: Chapters 90.82, 90.54, 90.22, 90.03, and 90.44 RCW. 07-17-007 (Order 04-08), § 173-532-030, filed 8/2/07, effective 9/5/07; Order DE 77-30, § 173-532-030, filed 12/14/77.]

WAC 173-532-040 Surface and ground water closed to further consumptive appropriations. (1) Based on historical and current low flows and water withdrawals by existing water right holders, the department has determined that no waters are available for new consumptive uses during periods of low surface water flows. Therefore, all rivers and streams in the basin are seasonally closed to any further consumptive appropriation from May 1 to November 30 with the exception that the Walla Walla River and all of its tributaries between Stateline and Detour Road at MP 5a, and Mill Creek and all of its tributaries from the confluence with the Walla Walla to the headwaters shall be closed from June 1 to November 30.

(2) Based on the hydrogeology of the basin, the department finds that gravel aquifers in the basin are hydraulically connected to surface waters in the basin. Therefore, the gravel aquifers are closed. Exception to this closure is provided for future permit-exempt ground water withdrawals as prescribed in WAC 173-532-050 and for nonconsumptive ground water use as prescribed in WAC 173-532-045. The closure does not affect the construction of a replacement well or new additional well or wells consistent with the conditions set in RCW 90.44.100.

(3) Future permits to withdraw surface water during nonclosure periods, shall be limited to environmental enhancement projects as described in WAC 173-532-055.

(4) All unappropriated surface waters and ground water from the gravel aquifer for which an exception to the closure does not apply, are hereby appropriated during the above periods of closure for purposes of protecting and preserving fish and wildlife and other instream values.

[Statutory Authority: Chapters 90.82, 90.54, 90.22, 90.03, and 90.44 RCW. 07-17-007 (Order 04-08), § 173-532-040, filed 8/2/07, effective 9/5/07; Order DE 77-30, § 173-532-040, filed 12/14/77.]

WAC 173-532-045 Future permitting actions. Surface and ground water permits may be issued only if consistent with the requirements of the surface and ground water statutes and other applicable requirements of law and if any one of the following conditions apply:

(1) The proposed water use is nonconsumptive.

(2) The proposed ground water use is from the basalt aquifer and will not:

(a) Impair existing water rights;

(b) Affect any closed surface source where instream flows have not been established; and

(c) Affect any closed gravel aquifer.

(3) The proposed surface water use would occur only during nonclosure periods and is intended for an environmental enhancement project, as defined in WAC 173-532-020(6) and meeting the criteria listed in WAC 173-532-055.

[Statutory Authority: Chapters 90.82, 90.54, 90.22, 90.03, and 90.44 RCW. 07-17-007 (Order 04-08), § 173-532-045, filed 8/2/07, effective 9/5/07.]

WAC 173-532-050 Protection of surface water rights from future permit-exempt ground water appropriations from the gravel aquifer. Where connection to an existing municipal water supply cannot be provided in a timely and reasonable manner, the following exceptions to the gravel aquifer closures in WAC 173-532-040 shall apply:

(1) Permit exempt withdrawals for purposes other than stockwatering may occur in the area that drains to the Snake and Columbia rivers (Burbank area), consistent with the requirements set in RCW 90.44.050.

(2) Permit exempt withdrawals may occur in areas with a zoned density equal to or more dense than one residence per ten acres (high density areas). However, future withdrawals from the gravel aquifer in the high density areas shall be limited to only domestic uses and outdoor uses, such as irrigation of lawn and noncommercial garden, outdoor washing, etc. Outdoor uses for the purposes of this subsection do not

include stockwatering. The total amount of water that may be withdrawn shall not exceed the amounts specified in (a) and (b) of this subsection.

(a) For any one residence, one thousand two hundred fifty gallons a day (1,250 gpd).

(b) For multiple residences that are part of a group use in addition to the limitations in (a) of this subsection, the combined maximum water withdrawal for the development shall not exceed five thousand gallons per day (5,000 gpd).

(3) Permit exempt withdrawals for purposes other than stockwatering may occur in areas where the zoned density is less than one residence per ten acres, but must be consistent with the requirements set in RCW 90.44.050.

(4) Permit exempt withdrawals for stockwatering may occur as long as the water use from an exempt well in the gravel aquifer does not exceed: Seven hundred gallons per day (700 gpd) on a legal lot of record size of ten acres or less; two thousand five hundred gallons per day (2,500 gpd) on a legal lot of record size between ten and twenty acres; or five thousand gallons per day (5,000 gpd) on a legal lot of record size twenty acres and greater. Feedlots or other activities not related to normal grazing land uses are not considered stockwatering for the purpose of this chapter.

(5) All future appropriation from the gravel aquifer in the high density areas, including for stockwatering, shall be required to install and maintain a water measuring device (water source meters) meeting specifications provided by the department. The user must report to the department, by December 31 of each year, monthly water use from May 1 to November 30.

(6) To avoid and/or mitigate cumulative impacts on existing water rights (which for purposes of this chapter are considered to include the instream flows established herein and the seasonally closed water sources), new permit-exempt users from the gravel aquifer in the high density areas must provide water-for-water mitigation, meaning equivalent quantities of water, for any outdoor water use from May 1 to November 30. The effect of this mitigation requirement shall be delayed until May 1, 2008; however, if the ecology director finds that despite diligent and committed efforts, mitigation arrangements for new users cannot be reasonably obtained by that date, the director may grant an extension of up to one year. After May 1, 2008, any such withdrawal for outdoor uses commenced after the effective date of this rule must have mitigation in place during all times that the withdrawal occurs. This means that even if a withdrawal for outdoor uses commenced before May 1, 2008, that withdrawal is subject to the outdoor mitigation requirement after that date. Any such outdoor water use that occurs prior to mitigation being in place is deemed illegal and the department may order the water user to cease and desist outdoor water use immediately as well as seek any other available administrative or judicial remedies.

(7) The department will keep records of all future permit-exempt ground water appropriations from the gravel and basalt aquifers.

(8) In consultation with Walla Walla and Columbia counties, the planning unit and the Confederated Tribes of the Umatilla Indian Reservation, the department will develop a mitigation plan identifying methods and means, such as the use of the trust water right program under chapter 90.42 RCW, to assist future permit-exempt users to offset the impacts of their proposed water use, either individually or jointly.

(9) If the department determines, in consultation with Walla Walla and Columbia counties, the planning unit and the Confederated Tribes of the Umatilla Indian Reservation, that the impacts of outdoor water use from new permit-exempt wells in the gravel aquifer are not fully mitigated as required in WAC 173-532-050(6) and may impair existing rights, the department shall issue an order and public notice stopping all such use. The order and notice shall define the area for which the stoppage applies. The order shall continue until such time that adequate and reliable mitigation is in place.

(10) For purposes of this chapter the priority date of a withdrawal under the permit exemption in RCW 90.44.050, shall be the date upon which water is put to actual beneficial use on the subject property for the purpose of use in question. For domestic use, actual beneficial use shall not be considered to occur until water is used within a residential structure.

[Statutory Authority: Chapters 90.82, 90.54, 90.22, 90.03, and 90.44 RCW. 07-17-007 (Order 04-08), § 173-532-050, filed 8/2/07, effective 9/5/07; Order DE 77-30, § 173-532-050, filed 12/14/77.]

WAC 173-532-055 Future surface water withdrawals for environmental enhancement projects. The department finds there may be water available above existing water rights and instream flows that could be captured for environmental enhancement projects. This water is only available at specific locations where instream flows are established and during the nonclosure periods, as specified in Table III. A surface water withdrawal for an environmental enhancement project ("EEP") may be approved if it meets all of the following:

(1) EEP may be sponsored only by:

(a) The Confederated Tribes of the Umatilla Indian Reservation;

(b) A municipal governments located within Walla Walla or Columbia counties;

(c) An irrigation district or ditch company within the watershed;

(d) The Washington department of fish and wildlife;

(e) A conservation district within the watershed;

(f) A quasi-governmental organization within the watershed; or

(g) A nonprofit organization within the watershed.

(h) Individual landowners may qualify as a sponsor only when the said landowner is a participant in a project sponsored by one or more of the aforementioned qualifying sponsors.

(2) A proposed project may only qualify as an EEP after the project has received a consensus recommendation from the Confederated Tribes of the Umatilla Indian Reservation, the Planning Unit, Washington department of fish and wildlife, and planning unit initiating governments.

(a) The consensus recommendation shall occur after receiving technical advice and recommendations from the technical advisory group with representatives from:

(i) The Confederated Tribes of the Umatilla Indian Reservation;

(ii) The governor's salmon recovery office;

(iii) The Walla Walla basin watershed council;

(iv) The Washington department of fish and wildlife; and

(v) The department of ecology.

(vi) The United States Army Corps of Engineers, United States Forest Service, United States Fish and Wildlife Service, and National Marine Fisheries Service may be invited to participate in the technical review.

(b) Technical evaluation shall consider:

(i) The specific management objectives for the stream management reaches affected by the EEP;

(ii) Effects of the project on inward and outward migration of salmonids and ecological function provided by high stream flows; and

(iii) Cumulative effects of all environmental enhancement projects.

(c) The technical evaluation shall also weigh any detriment caused by storing some seasonal stream flows (e.g., high winter flows and flood flows) against any benefit the stored water would provide.

(3) An application for EEP must include a monitoring and adaptive management program and show ability to implement such a program. Applicants will define how they will measure and evaluate the project's effectiveness in achieving environmental enhancement goals. The technical advisory group may assist in developing the criteria for evaluating project effectiveness.

(4) Initial water use authorization for EEP will be for short-term. No appropriative right shall develop out of this authorization. The department may only issue a permanent water right if the project's intended benefits are being realized, on the advice of the technical group and if consistent with the requirements for new appropriations under RCW 90.03.290.

(5) All other applicable permits must be obtained from the department, Washington department of fish and wildlife, and other agencies, prior to construction or water use.

(6) Water right permits for EEP shall be subject to existing water rights and instream flows as established under this chapter.

(7) In consideration of the recommendations of the technical advisory group, the withdrawals shall be managed consistent with salmonid migration needs and with the protection of high flow functions.

(8) Monitoring and sampling shall be consistent with the monitoring plan developed and approved for the project. Daily records shall be kept of the quantity of water diverted to the project. Such records shall be made available to the department upon request.

(9) The department will maintain a record of all diversion for EEP approved in each stream management unit.

(10) The maximum allocation for EEP within a stream management unit shall not exceed the values indicated in Table III.

Table III
Maximum Allocation for Environmental Enhancement Projects
(cubic feet per second)

Stream Location	EEP Diversion Period	Maximum Allocation*
Mill Creek at confluence with Walla Walla River (Walla Walla River, RM 33) to headwaters.	Dec. 1 to May 31	125
Walla Walla River below confluence of Walla Walla River and Mill Creek (RM 32.4) to state line.	Dec. 1 to May 31	300
North Fork Touchet at mouth of North Fork Touchet River to headwaters.	Dec. 1 to April 30	110
Touchet River at Bolles to headwaters, excluding North Fork Touchet.	Dec. 1 to April 30	175

*The total allocation on the Touchet River and North Fork Touchet River shall not exceed 175 cfs. The total maximum allocation on the Walla Walla River and Mill Creek shall not exceed 300 cfs. Due to concerns over potential impacts on inward and outward migration of salmonids and ecological function of high flows the maximum allocation may be considerably less.

[Statutory Authority: Chapters 90.82, 90.54, 90.22, 90.03, and 90.44 RCW. 07-17-007 (Order 04-08), § 173-532-055, filed 8/2/07, effective 9/5/07.]

WAC 173-532-090 Compliance and enforcement. (1) The department shall prepare and make available to the public, technical and educational information regarding the scope and requirements of this chapter. This is intended to assist the public in complying with the requirements of their water rights and applicable water laws and rules.

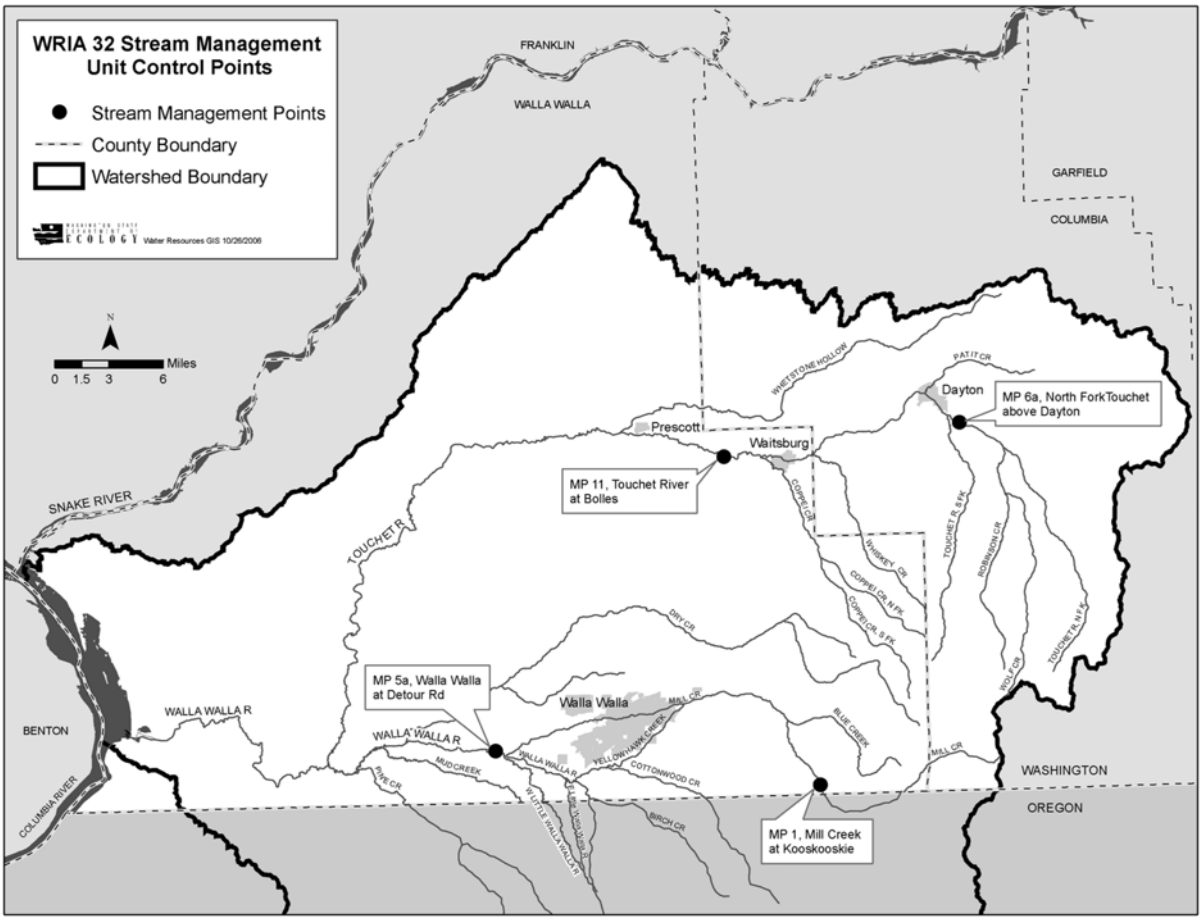
(2) When the department determines that a violation of this chapter has occurred, it shall:

(a) First attempt to achieve voluntary compliance, except in appropriate cases involving potential harm to other water rights or the environment. An approach to achieving voluntary compliance is to offer information and technical assistance to a violator. The information or technical assistance identifies, in writing, one or more means to accomplish the person's purposes within the framework of the law.

(b) If education and technical assistance do not achieve compliance, the department has the authority to issue a notice of violation, a formal administrative order under RCW 43.27A.190, or assess penalties under RCW 43.83B.336, 90.03.400, 90.03.410, 90.03.600, 90.44.120 and 90.44.130.

[Statutory Authority: Chapters 90.82, 90.54, 90.22, 90.03, and 90.44 RCW. 07-17-007 (Order 04-08), § 173-532-090, filed 8/2/07, effective 9/5/07. Statutory Authority: Chapters 43.27A, 90.22 and 90.54 RCW. 88-13-037 (Order 88-11), § 173-532-090, filed 6/9/88.]

WAC 173-532-120 Map. For the purpose of administering this chapter, the boundaries of the Walla Walla River basin identified in the figure below are presumed to accurately reflect the basin located within Washington state.



[Statutory Authority: Chapters 90.82, 90.54, 90.22, 90.03, and 90.44 RCW. 07-17-007 (Order 04-08), § 173-532-120, filed 8/2/07, effective 9/5/07.]

Chapter 173-545 WAC

INSTREAM RESOURCES PROTECTION PROGRAM—WENATCHEE RIVER BASIN, WATER RESOURCE INVENTORY AREA (WRIA) 45

WAC

DISPOSITION OF SECTIONS FORMERLY CODIFIED IN THIS CHAPTER

173-545-095 Appeals. [Statutory Authority: Chapters 43.21B, 43.27A, 90.22 and 90.54 RCW. 88-13-037 (Order 88-11), § 173-545-095, filed 6/9/88.] Repealed by 08-01-045 (Order 07-06), filed 12/12/07, effective 1/12/08. Statutory Authority: Chapters 90.82, 90.54, 90.22, 90.03, and 90.44 RCW.

WAC 173-545-010 General. These rules apply to waters within the Wenatchee River basin, WRIA 45, as defined in WAC 173-500-040. This chapter is adopted under chapter 90.54 RCW (Water Resources Act of 1971), chapter 90.22 RCW (minimum water flows and levels), chapter 77.57 RCW (state fisheries code), chapter 90.82 RCW (Watershed Planning Act), and in accordance with chapter 173-500 WAC (water resources management program).

[Statutory Authority: Chapters 90.82, 90.54, 90.22, 90.03, and 90.44 RCW. 08-01-045 (Order 07-06), § 173-545-010, filed 12/12/07, effective 1/12/08. Statutory Authority: Chapters 90.54, 90.22 and 75.20 RCW. 83-13-016 (Order DE 83-8), § 173-545-010, filed 6/3/83.]

WAC 173-545-020 Purpose. The purposes of this chapter are to retain perennial rivers, streams, and lakes in the Wenatchee River basin with instream flows and levels necessary to protect water quality, wildlife, fish, and other environmental values, as well as aesthetics, recreation, navigation;

and to meet certain future out-of-stream water needs identified in the Wenatchee watershed management plan.

(1) The Wenatchee watershed management plan approved by the Wenatchee planning unit and the Chelan County commission under RCW 90.82.130 is the basis for amendments to the June 3, 1983 rule. The plan recommendations were approved on April 26, 2006, by the Wenatchee watershed planning unit, a group composed of a broad base of water use interests, and on June 26, 2006, by the Chelan County commission. The plan recommendations are therefore considered an expression of the public interest.

(2) This chapter sets forth the department's policies to guide the protection, use and management of Wenatchee River basin surface water and interrelated ground water resources. It protects existing water rights, establishes instream flows, and sets forth a program for the administration of future water allocation and use.

[Statutory Authority: Chapters 90.82, 90.54, 90.22, 90.03, and 90.44 RCW. 08-01-045 (Order 07-06), § 173-545-020, filed 12/12/07, effective 1/12/08. Statutory Authority: Chapters 90.54, 90.22 and 75.20 RCW. 83-13-016 (Order DE 83-8), § 173-545-020, filed 6/3/83.]

WAC 173-545-030 Definitions. For the purposes of this chapter, the following definitions shall be used:

(1) **"Allocation"** means the designation of specific amounts of water for specific beneficial uses.

(2) **"Appropriation"** means the process of legally acquiring the right to specific amounts of water for beneficial uses, as consistent with the requirements of the ground and surface water codes and other applicable water resource statutes.

(3) **"Beneficial uses"** means uses of water for domestic, stock watering, industrial, commercial, agricultural, irrigation, hydroelectric power production, mining, fish and wildlife maintenance and enhancement, recreational, thermal power production, and preservation of environmental and aesthetic values, and all other uses compatible with the enjoyment of the public waters of the state.

(4) **"Consumptive use"** means a use of water whereby there is a diminishment of the overall amount or quality of water in the water source.

(5) **"Closure"** means a finding by the department that no water is available for future appropriations. WAC 173-545-100 identifies the periods when, and in what quantities, water may be available for future appropriation. If the maximum allocation is zero, no water is available. Practically, it means a permit to appropriate water for a beneficial use will not be approved from a stream or aquifer that results in a diminishment of the stream or aquifer during any period of time that water is unavailable and, unless otherwise excepted, no water is available for new or expanded exempt withdrawals under RCW 90.44.050.

(6) **"Department"** means the Washington state department of ecology.

(7) **"Domestic water use"** means, for the purposes of the reservation of water in this chapter, use of water associated with human health and welfare requirements, including water used for drinking, bathing, sanitary purposes, cooking, laundering, and other incidental household uses.

(8) **"Existing water right"** includes perfected riparian rights, federal Indian and non-Indian reserved rights or other perfected and inchoate appropriative rights.

(9) **"Hydraulic continuity"** means the interrelation between ground water (water beneath land surfaces or surface water bodies) and surface water (water above ground, such as lakes and streams).

(10) **"Instream flow"** as used in this chapter, has the same meaning as a minimum instream flow under chapter 90.82 RCW, a base flow under chapter 90.54 RCW, a minimum flow under chapter 90.03 or 90.22 RCW, or management flow in the Wenatchee watershed plan. The instream flow constitutes a water right under chapter 90.03 RCW.

(11) **"Irrigation associated with a residence"** means irrigation of not more than one-half acre of lawn or garden per dwelling.

(12) **"Nonconsumptive use"** means a type of water use where either there is no withdrawal from a water source or there is no diminishment in the overall amount or quality of water in the water source.

(13) **"Plan"** or **"watershed plan"** means the Wenatchee watershed management plan, approved by the Wenatchee watershed planning unit on April 26, 2006, and by the Chelan County commissioners on June 26, 2006.

(14) **"Planning unit"** means the Wenatchee watershed planning unit (WWPU), or a successor approved by the WWPU. The WWPU was established in 1999 in accordance with chapter 90.82 RCW, Watershed Planning Act. The WWPU presently consists of the main planning unit, the steering committee, several technical subcommittees (e.g., water quantity/instream flow, habitat, water quality, growth and land use, outreach), and other interested stakeholders.

(15) **"Public water system"** means any system providing water for human consumption through pipes or other constructed conveyances, excluding a system serving only one single-family residence and a system with four or fewer connections all of which serve residences on the same farm. Water use shall be consistent with WAC 246-290-020 or as it may be recodified.

(16) **"Reservation"** means an allocation of water set aside for future domestic use, municipal use, and stock water use (except feedlots). For the purposes of this chapter, the reservation is not subject to the instream flows set in WAC 173-545-050 and 173-545-060. "Reservation" is the same as "reserve" and "reserved water" in the Wenatchee watershed management plan.

(17) **"Stock water"** means the use of water by animals consistent with the Chelan County Code, Section 11.88.030. It does not apply to feedlots and other activities which are not related to normal grazing land uses.

(18) **"Stream management unit"** means a stream segment, reach, or tributary used to describe the part of the relevant stream to which a particular use, action, instream flow level or reservation of water applies. Each of these units contains a control station. A map of the control points is included in this chapter (WAC 173-545-170).

(19) **"Withdrawal"** means the extraction of ground water or diversion of surface water.

(20) **"WRIA"** means water resource inventory area. This term can be used interchangeably with "basin" and "watershed."

[Statutory Authority: Chapters 90.82, 90.54, 90.22, 90.03, and 90.44 RCW. 08-01-045 (Order 07-06), § 173-545-030, filed 12/12/07, effective 1/12/08. Statutory Authority: Chapters 90.54, 90.22 and 75.20 RCW. 83-13-016 (Order DE 83-8), § 173-545-030, filed 6/3/83.]

WAC 173-545-040 Stream management units. Stream management units and associated control stations are established as follows:

Stream Management Unit Information

Control Station No. Stream Management Unit Name	Control Station by River Mile and Section, Township, and Range	Affected Stream Reach(es) including Tributaries
12-4570.00 Wenatchee River at Plain	46.2 Sec. 12, T. 26N., R. 17E. W.M.	From Beaver Valley Hwy, R.M. 46.2, to headwaters
12-4585.00 Icicle Cr. near Leavenworth	2.6 Sec. 23, T. 24N., R. 17E. W.M.	Headwaters of Icicle Creek to its mouth
12-4590.00 Wenatchee River at Peshastin	21.5 Sec. 8, T. 24N., R. 18E. W.M.	From confluence of Derby Creek to Beaver Valley Hwy, R.M. 46.2 excluding Derby Creek and Icicle Creek
12-4625.00 Wenatchee River at Monitor	7.0 Sec. 11, T. 23N., R. 19E. W.M.	From mouth to confluence of Derby Creek, including Derby Creek and excluding Mission Creek
12-4620.00[1] Mission Creek near Cashmere	1.5 Sec. 9, T. 23N., R. 19E. W.M.	From mouth to headwaters
ECY 453070[2] Mission Creek near Cashmere	0.2 Sec. 5, T. 23N., R. 19E. W.M.	From mouth to headwaters
12-4565.00 Chiwawa River near Plain	6.2 Sec. 13, T. 27N., R. 17E. W.M.	From the confluence of the Chiwawa River and the Wenatchee River upstream to the headwaters of the Chiwawa River
ECY 45J070 Nason Creek near mouth	0.2 Sec. 33, T. 27N., R. 17E. W.M.	From the confluence of Nason Creek and the Wenatchee River upstream to the Nason Creek headwaters
ECY 45F070 Peshastin Creek at Green Bridge Rd.	1.4 Sec. 28, T. 24N., R. 18E. W.M.	From the confluence of Peshastin Creek and the Wenatchee River upstream to the Peshastin Creek headwaters

[1]This station is used for regulation of permits issued subject to the minimum instream flows listed in WAC 173-545-050.

[2]This station is to be used for regulation of any permits issued subject to the minimum instream flows in WAC 173-545-060.

[Statutory Authority: Chapters 90.82, 90.54, 90.22, 90.03, and 90.44 RCW. 08-01-045 (Order 07-06), § 173-545-040, filed 12/12/07, effective 1/12/08. Statutory Authority: Chapters 90.54, 90.22 and 75.20 RCW. 83-13-016 (Order DE 83-8), § 173-545-040, filed 6/3/83.]

WAC 173-545-050 Instream flows established on June 3, 1983. (1) The following instream flows were established June 3, 1983. Water rights established after that date and prior to the effective date of this rule are subject to these instream flows. The June 3, 1983, instream flows for the following stream management units in WAC 173-545-040 are as follows:

1983 Instream Flows in the Wenatchee River
(instantaneous cubic feet per second)

Month	Day	12-4570.00 Wenatchee R. at Plain	12-4580.00 Icicle Cr. near Leavenworth	12-4590.00 Wenatchee R. at Peshastin
Jan	1	550	120	700
	15	550	120	700
Feb	1	550	120	700
	15	550	120	700
Mar	1	550	150	750
	15	700	170	940
Apr	1	910	200	1300
	15	1150	300	1750
May	1	1500	450	2200
	15	2000	660	2800
Jun	1	2500	1000	3500
	15	2000	660	2600
Jul	1	1500	450	1900
	15	1200	300	1400
Aug	1	880	200	1000
	15	700	170	840
Sep	1	660	130	820
	15	620	130	780
Oct	1	580	130	750
	15	520	130	700
Nov	1	550	150	750
	15	550	150	750
Dec	1	550	150	750
	15	550	150	750

1983 Instream Flows in the Wenatchee River
(instantaneous cubic feet per second)

Month	Day	12-4620.00 Mission Cr. near Cashmere	12-4625.00 Wenatchee R. at Monitor
Jan	1	6	820
	15	6	820
Feb	1	6	820
	15	6	800
Mar	1	6	800
	15	11	1040
Apr	1	22	1350
	15	40	1750
May	1	40	2200
	15	40	2800
Jun	1	28	3500
	15	20	2400
Jul	1	14	1700
	15	10	1200
Aug	1	7	800
	15	5	700
Sep	1	4	700
	15	4	700
Oct	1	4	700
	15	5	700
Nov	1	6	800
	15	6	800
Dec	1	6	800
	15	6	800

(2) Instream flow hydrographs, WAC 173-545-170, Appendix 1 to this rule, shall be used for identification of instream flows on those days not specifically identified in WAC 173-545-050(1).

(3) The instream flows in subsection (1) of this section shall retain their original priority date and quantities, except where the flows in WAC 173-545-060(7) are lower than the flows in subsection (1) of this section. In those instances, existing water rights subject to subsection (1) of this section will instead be subject to the lower flow in WAC 173-545-060(7). However, the priority date of the original right remains unchanged. If, at a future date, it is determined that the higher flows in subsection (1) of this section are required to retain flows necessary to preserve fish, wildlife, scenic, aesthetic, or other environmental values, the department will issue an order notifying the holders of the conditioned permits and certificates of such a decision and the justification.

[Statutory Authority: Chapters 90.82, 90.54, 90.22, 90.03, and 90.44 RCW. 08-01-045 (Order 07-06), § 173-545-050, filed 12/12/07, effective 1/12/08. Statutory Authority: Chapters 90.54, 90.22 and 75.20 RCW. 83-13-016 (Order DE 83-8), § 173-545-050, filed 6/3/83.]

WAC 173-545-060 Instream flows based on watershed planning. (1) The instream flows established in this section are based on the recommendations of the Wenatchee watershed planning unit and public input received during the rule-making process. These instream flows are established under RCW 90.82.080, and are necessary to meet the water resource management and ecosystem maintenance objectives of the Wenatchee watershed plan.

(2) Instream flows established in this section protect stream flows from future appropriations, and preserve flow levels that are necessary to protect wildlife, fish, water quality, aesthetic and other environmental values, recreation, and navigational values.

(3) Instream flows in subsection (7) of this section established at new locations or in larger amounts than the instream flows in WAC 173-545-050(1) are water rights with a priority date of November 2, 2001.

(4) All water rights (surface and ground water) established after the effective date of this rule, and not covered under the reservation in WAC 173-545-090, are subject to these instream flows. Water rights junior to the instream flow may be exercised when flow or ground water conditions will provide enough water to satisfy senior rights, including the instream flows. New appropriations which would conflict with instream flows shall be authorized only in situations where it is clear that the overriding considerations of the public interest will be served.

(5) Based upon the department's determination of overriding considerations of public interest, the reservation of water established in WAC 173-545-090 is not subject to the instream flows in subsection (7) of this section or WAC 173-545-050(1).

(6) Instream flows are expressed in cubic feet per second (cfs). Instream flows are measured at the control stations identified in WAC 173-545-040.

(7) Instream flows are established for the stream management units in WAC 173-545-040, as follows:

Instream Flows in the Wenatchee River Basin
Based on Watershed Planning
(instantaneous cubic feet per second)

Month	Day	12-4570.00 Wenatchee R. at Plain	12-4585.00 Icicle Cr. near Leavenworth	12-4590.00 Wenatchee R. at Peshastin	ECY 45J070 Nason Cr. near Mouth
Jan	1	550	267	1933	120
	15	550	267	1933	120
Feb	1	550	267	1933	120
	15	550	566	2800	160
Mar	1	550	518	2800	160
	15	700	518	2800	160
Apr	1	910	650	2800	160
	15	1150	650	2800	160
May	1	1500	650	2800	160
	15	2000	650	2800	160
Jun	1	2500	650	2800	160
	15	2000	550	1933	210
Jul	1	1500	550	1933	210
	15	1200	550	1933	210
Aug	1	880	400	1933	180
	15	700	343	1400	180
Sep	1	660	275	1311	165
	15	620	275	1311	165
Oct	1	580	267	1932	120
	15	520	267	2672	120
Nov	1	550	267	2900	120
	15	550	267	2900	120
Dec	1	550	267	1933	120
	15	550	267	1933	120

Instream Flows in the Wenatchee River Basin (cont'd)
(instantaneous cubic feet per second)

Month	Day	12-4625.00 Wenatchee R. at Monitor	ECY 45F070 Peshastin Cr. at Green Bridge Rd.	Chumstick Cr. at North Road
				To be determined
Jan	1	1867	53	(tbd)
	15	1867	53	
Feb	1	1867	53	tbd
	15	2400	120	
Mar	1	2400	120	tbd
	15	2400	120	
Apr	1	2400	120	tbd
	15	2400	120	
May	1	2400	120	tbd
	15	2400	120	
Jun	1	2400	120	tbd
	15	1600	110	
Jul	1	1600	110	tbd
	15	1600	110	
Aug	1	1600	80	tbd
	15	900	80	
Sep	1	900	80	tbd
	15	1338	80	
Oct	1	1723	53	tbd
	15	2427	53	
Nov	1	2800	53	tbd
	15	2800	53	
Dec	1	1867	53	tbd
	15	1867	53	

(8) Instream flow hydrographs, WAC 173-545-170, Appendix 1 to this rule, shall be used for identification of instream flows on those days not specifically identified in WAC 173-545-060(7).

(9) Future consumptive water right permits issued hereafter for the withdrawal of surface and ground water from the mainstem Wenatchee River and tributaries shall be subject to instream flows established in subsection (7) of this subsec-

tion, except for those withdrawals eligible for the reservation under WAC 173-545-090.

(10) Projects that would reduce the flow in a portion of a stream's length (e.g.: Hydroelectric diversion projects) are consumptive with respect to the bypassed portion of the stream and are subject to specific instream flow requirements for the bypassed reach. The department may require detailed, project-specific instream flow studies to determine a specific instream flow for the bypassed reach. The flows established in subsection (7) of this section shall apply to the bypassed stream reach unless the department, by order, determines that different flows may be maintained in the bypassed reach.

[Statutory Authority: Chapters 90.82, 90.54, 90.22, 90.03, and 90.44 RCW. 08-01-045 (Order 07-06), § 173-545-060, filed 12/12/07, effective 1/12/08. Statutory Authority: Chapters 90.54, 90.22 and 75.20 RCW. 83-13-016 (Order DE 83-8), § 173-545-060, filed 6/3/83.]

WAC 173-545-070 Lakes and ponds. In accordance with RCW 90.54.020(3), lakes and ponds in the Wenatchee watershed shall be retained substantially in their natural condition, including those in the Wenatchee National Forest. Water withdrawals from lakes and ponds for purposes eligible under the reservation in WAC 173-545-090 are not subject to instream flows. All other water withdrawals from lakes and ponds or storage projects sited within or upon existing lakes or ponds are subject to instream flows and maximum future allocations.

[Statutory Authority: Chapters 90.82, 90.54, 90.22, 90.03, and 90.44 RCW. 08-01-045 (Order 07-06), § 173-545-070, filed 12/12/07, effective 1/12/08. Statutory Authority: Chapters 90.54, 90.22 and 75.20 RCW. 83-13-016 (Order DE 83-8), § 173-545-070, filed 6/3/83.]

WAC 173-545-080 Interim closure. The Chumstick Creek subbasin shall be closed to all future appropriations other than those provided by the interim reservation in WAC 173-545-090 (1)(d)(vi) until the department adopts a rule establishing instream flows, closes Chumstick Creek permanently, or determines that instream flows or a closure are not required.

[Statutory Authority: Chapters 90.82, 90.54, 90.22, 90.03, and 90.44 RCW. 08-01-045 (Order 07-06), § 173-545-080, filed 12/12/07, effective 1/12/08. Statutory Authority: Chapters 90.54, 90.22 and 75.20 RCW. 83-13-016 (Order DE 83-8), § 173-545-080, filed 6/3/83.]

WAC 173-545-090 Reservation of water for certain future uses. (1) Using the watershed plan as a primary expression of public interest, and consistent with the authority under RCW 90.54.050(1) and 90.82.130(4), the department's director determines that it is an overriding consideration of the public interest to reserve an amount of surface and ground water, up to 4 cubic feet per second, for future beneficial uses as follows:

(a) The priority date for uses under the reservation is the effective date of this chapter.

(b) The reservation is not subject to the instream flows established in WAC 173-545-050 and 173-545-060.

(c) Beneficial uses of water eligible for the reservation are limited to:

(i) Permitted uses for domestic purposes, irrigation associated with a residence, potable domestic water requirements associated with municipal, commercial, and industrial purposes, and stock water (as defined in WAC 173-545-030 (17)).

(ii) Permit-exempt uses for domestic purposes, irrigation associated with a residence, domestic water requirements associated with municipal, commercial, and industrial purposes, and stock water (as defined in WAC 173-545-030 (17)).

(d) The reservation of water for future use is limited to the following locations and amounts:

(i) Chiwawa River near Plain (USGS 12-4565.00), up to 0.5 cfs.

(ii) Nason Creek near mouth, up to 0.16 cfs.

(iii) Wenatchee River at Plain (USGS Gage No. 12-4570.00), up to 1.0 cfs inclusive of actual water use associated with the subbasin reservations in (d)(i) and (ii) of this subsection.

(iv) Icicle Creek near Leavenworth: Up to 0.1 cfs. Reservation of an additional 0.4 cfs will be considered after completion of flow restoration efforts targeting habitat between the city of Leavenworth and Icicle Irrigation District's point of diversion and the U.S. Fish and Wildlife Service hatchery return. Rule making will be required to establish this additional reservation.

(v) Peshastin Creek at Green Bridge: Up to 0.1 cfs.

(vi) Chumstick Creek at North Road: Up to 0.043 cfs as an interim reservation to meet projected growth for the three years immediately following the effective date of this rule. At the end of three years, or sooner if the interim reservation is fully appropriated, allocation of any water remaining in the interim reservation and water above the interim reservation, up to a total of 0.13 cfs, is subject to additional conditions described in subsection (10) of this section.

(vii) Mission Creek near Cashmere: Up to 0.03 cfs for an interim reservation to meet projected growth for the two years immediately following the effective date of this rule. The interim reservation is subject to additional conditions described in subsection (11) of this section.

(viii) Wenatchee River at Monitor (USGS Gage No. 12-4625.00): Up to 4 cfs inclusive of actual water use associated with the subbasin reservations in (d)(i) through (vii) of this subsection.

(2) A water right permit allocating water from the reservation must be consistent with the requirements of RCW 90.03.290.

(3) All water uses from the reservation must implement water use efficiency and conservation practices, consistent with the watershed plan.

(4) This reservation of water is intended to meet needs identified for the basin within the Wenatchee watershed plan. The department shall deny all applications for water from this reservation for use not conforming to subsection (1)(c) of this section.

(5) All water uses relying on the reservation must be measured and reported. The manner and form of such measuring and reporting to support the accounting system for the reservation water uses may be specified by the department, Chelan County, or by a local government, utility, or other public water purveyor in a permit, approval, license, or order. An accounting of all appropriations from the reservation shall be maintained by the department and the Chelan County nat-

ural resource department. The accounting shall, at a minimum, include estimated and measured use in gallons per day.

(6) All permitted and permit-exempt uses from the reservation will have the same priority date. The following will guide water supply decisions in times of water shortage:

(a) Among the use categories: Domestic and stock-watering uses will be met first, followed by domestic water requirements associated with municipal, commercial and industrial use, and then residential irrigation.

(b) Within each use category, the date of first beneficial use will be used. The use with the earliest date will be satisfied first.

(7) The reservation will be evaluated by the department and the Wenatchee planning unit prior to 2010, 2015, 2020, and 2025. The allocated and unallocated amounts for each use will be reviewed, as well as the allocated and unallocated amounts for the entire reserve. Modifications to the program may therefore be established through rule making, if needed.

(8) The department shall notify both Chelan County and the planning unit or its successor, in writing, when it determines that fifty percent, seventy-five percent, and one hundred percent, respectively, of the total reservation is appropriated. The department shall also issue a public notice in a newspaper of general circulation for the region at the same three junctures.

(9) The department shall require measuring and reporting for permitted surface and ground water appropriation from the reservation. If more accurate water use data are needed, the department may, after consulting with the planning unit and Chelan County, require measuring and reporting for ground water withdrawals otherwise exempted from permit requirements under RCW 90.44.050.

(10) For Chumstick Creek, allocation of the full 0.13 cfs reservation will be considered only after completion of an instream flow assessment and a cumulative impacts assessment. Rule making will be required to establish Chumstick Creek instream flows. A cumulative impacts assessment will be used to determine if outdoor water use associated with permit-exempt ground water uses initiated after June 6, 1983, interferes with the instream flows in WAC 173-545-050. Rule making will also be required to either terminate the interim closure of the Chumstick Creek subbasin or to make it permanent.

(11) For Mission Creek, the interim reservation will terminate after two years. A cumulative impacts assessment will be used to determine if outdoor water use associated with permit-exempt ground water uses initiated subsequent to June 6, 1983, interferes with the adopted instream flows in WAC 173-545-050.

[Statutory Authority: Chapters 90.82, 90.54, 90.22, 90.03, and 90.44 RCW. 08-01-045 (Order 07-06), § 173-545-090, filed 12/12/07, effective 1/12/08. Statutory Authority: Chapters 43.21B, 43.27A, 90.22 and 90.54 RCW. 88-13-037 (Order 88-11), § 173-545-090, filed 6/9/88. Statutory Authority: Chapters 90.54, 90.22 and 75.20 RCW. 83-13-016 (Order DE 83-8), § 173-545-090, filed 6/3/83.]

WAC 173-545-100 Maximum future allocation. (1)(a) The department determines that there are certain times when there are surface waters above the instream flows, referred to as "high flows." These high flows provide critical ecological functions such as channel and riparian zone maintenance, flushing of sediments, and fish migration. In order to protect the frequency and duration of these higher flows, the department hereby establishes maximum amounts of water/flow that can be withdrawn from specific streams at specific times, subject to the flows in WAC 173-545-060.

(b) A maximum allocation shall be used to review future applications for beneficial uses from the mainstem Wenatchee and tributary rivers and creeks.

Maximum Allocations in the Wenatchee River Basin
(instantaneous cubic feet per second)

Month	Day	12-4570.00 Wenatchee R. at Plain	12-4585.00 Icicle Cr. near Leavenworth	12-4590.00 Wenatchee R. at Peshastin
Jan	1	82	21	113
	15	82	21	113
Feb	1	78	20	111
	15	78	0	111
Mar	1	96	0	147
	15	96	0	147
Apr	1	243	59	335
	15	243	59	335
May	1	525	149	711
	15	525	149	711
Jun	1	604	175	800
	15	604	175	800
Jul	1	296	76	376
	15	296	76	376
Aug	1	102	28	122
	15	102	0	122
Sep	1	0	0	0
	15	0	0	0
Oct	1	0	0	0
	15	0	0	0
Nov	1	95	23	128
	15	95	23	128
Dec	1	92	25	122
	15	92	25	122

Maximum Allocations in the Wenatchee River Basin (cont'd)
(instantaneous cubic feet per second)

Month	Day	ECY 45F070 Peshastin Cr. near Green Bridge	12-4625.00 Wenatchee R. at Monitor	ECY 45E070 Mission Cr. near Cashmere
Jan	1	6	132	0.6
	15	6	132	0.6
Feb	1	6	148	1.2
	15	6	148	1.2
Mar	1	7	192	1.4
	15	7	192	1.4
Apr	1	16	360	2.7
	15	16	360	2.7
May	1	38	710	3.1
	15	38	710	3.1
Jun	1	44	813	1.9
	15	44	813	1.9
Jul	1	20	373	0
	15	20	373	0
Aug	1	0	117	0
	15	0	117	0.3
Sep	1	0	72	0
	15	0	0	0
Oct	1	0	0	0
	15	0	0	0
Nov	1	7	139	0.4
	15	7	139	0.4
Dec	1	7	130	0.4
	15	7	130	0.4

Maximum Allocations in the Wenatchee River Basin (cont'd)
(instantaneous cubic feet per second)

Month	Day	ECY 45J070 Nason Cr. near Mouth	12-4565.00 Chiwawa R. near Plain
Jan	1	13	12
	15	13	12
Feb	1	12	12
	15	12	0
Mar	1	15	0
	15	15	16
Apr	1	44	58
	15	44	58
May	1	99	139
	15	99	139
Jun	1	114	147
	15	114	147
Jul	1	54	71
	15	54	71
Aug	1	17	24
	15	17	0
Sep	1	0	0
	15	0	0
Oct	1	0	0
	15	0	0
Nov	1	15	16
	15	15	16
Dec	1	15	16
	15	15	16

(2) The designation of a maximum allocation limit does not constitute a determination by the department that a permit to appropriate public waters will be issued. RCW 90.03.290 and 90.44.060 require that a permit can be issued only upon a determination that: Water is available; the use will not impair existing rights; water will be applied to a beneficial use; and the use is not detrimental to the public interest. Establishment of a water right within the limit of the allocation occurs after proper authorization from the department and after the water is first put to beneficial use. The water rights are subject to the instream flows established in WAC 173-545-060, and other provisions established in statutory, administrative and case law.

(3) The department shall require the metering and reporting of all permitted surface and ground water withdrawals for which a maximum allocation applies.

(4) The department will maintain a record of the amount of water appropriated from the Wenatchee River and tributaries specified above. Once the maximum amounts are fully appropriated, the department shall notify Chelan County and the planning unit in writing. The department shall also issue a public notice in a newspaper of general circulation for the region.

[Statutory Authority: Chapters 90.82, 90.54, 90.22, 90.03, and 90.44 RCW. 08-01-045 (Order 07-06), § 173-545-100, filed 12/12/07, effective 1/12/08. Statutory Authority: Chapters 43.21B, 43.27A, 90.22 and 90.54 RCW. 88-13-037 (Order 88-11), § 173-545-100, filed 6/9/88. Statutory Authority: Chapters 90.54, 90.22 and 75.20 RCW. 83-13-016 (Order DE 83-8), § 173-545-100, filed 6/3/83.]

WAC 173-545-110 Permitting actions. (1) Surface and ground water permits not subject to the instream flows established in WAC 173-545-060 may be issued if:

(a) The proposed use is nonconsumptive, and compatible with the intent of this chapter; or

(b) The water use qualifies for the reservation established in WAC 173-545-090.

(2)(a) Future applications for surface waters that are not part of the reservation established in WAC 173-545-090 may be approved subject to the instream flows established in WAC 173-545-060 and the maximum water allocation limits established in WAC 173-545-100, unless the source is closed to further appropriation.

(b) Future applications for ground waters that are not part of the reservation established in WAC 173-545-090 may be approved subject to the instream flows established in WAC 173-545-060 and the maximum water allocation limits established in WAC 173-545-100 (except if there is a closure). Based upon existing data and the findings in the watershed plan, the department determines that there is a high likelihood of hydraulic continuity between surface water and ground water sources within both the Wenatchee River management units and tributaries established in WAC 173-545-040. Therefore, water rights without instream flow limitations may be issued for ground water only if the department determines that the withdrawal of ground water with proposed mitigation in place would not adversely affect or impair the instream flows.

(3) No right to withdraw or store the public surface or ground waters of the Wenatchee River basin that conflicts with the provisions of this chapter will hereafter be granted, except in cases where such rights will clearly serve overriding considerations of the public interest, as stated in RCW 90.54.020 (3)(a).

(4) All future surface and ground water permit holders shall be required to install and maintain measuring devices and report the data to the department in accordance with permit requirements. In addition, the department may require the permit holder to monitor stream flows and ground water levels.

[Statutory Authority: Chapters 90.82, 90.54, 90.22, 90.03, and 90.44 RCW. 08-01-045 (Order 07-06), § 173-545-110, filed 12/12/07, effective 1/12/08.]

WAC 173-545-120 Changes and transfers. No changes to, or transfers of, existing surface and ground water rights in the Wenatchee River basin shall hereafter be granted if they conflict with the purpose of this chapter. Any change or transfer proposal can be approved only if there is a finding that existing rights, including the instream flows established in WAC 173-545-050 and 173-545-060, will not be impaired.

[Statutory Authority: Chapters 90.82, 90.54, 90.22, 90.03, and 90.44 RCW. 08-01-045 (Order 07-06), § 173-545-120, filed 12/12/07, effective 1/12/08.]

WAC 173-545-130 Compliance and enforcement. (1) To obtain compliance with this chapter, the department, with assistance from Chelan County, the planning unit or its successor and partners, shall prepare and distribute technical and educational information regarding the scope and requirements of this chapter to the public. This is intended to assist the public in complying with the requirements of their water rights and applicable water laws.

(2) When the department determines that a violation has occurred, it shall first attempt to achieve voluntary compliance. An approach to achieving this is to offer information and technical assistance to the person, in writing, identifying one or more means to accomplish the person's purposes within the framework of the law.

(3) To obtain compliance and enforce this chapter, the department may impose such sanctions as appropriate under authorities vested in it, including, but not limited to, issuing regulatory orders under RCW 43.27A.190; and imposing civil penalties under RCW 43.83B.336, 90.03.400, 90.03.410, 90.03.600, 90.44.120 and 90.44.130.

[Statutory Authority: Chapters 90.82, 90.54, 90.22, 90.03, and 90.44 RCW. 08-01-045 (Order 07-06), § 173-545-130, filed 12/12/07, effective 1/12/08.]

WAC 173-545-140 Appeals. All final written decisions of the department pertaining to permits, regulatory orders, and related decisions made pursuant to this chapter can be subject to review by the pollution control hearings board in accordance with chapter 43.21B RCW.

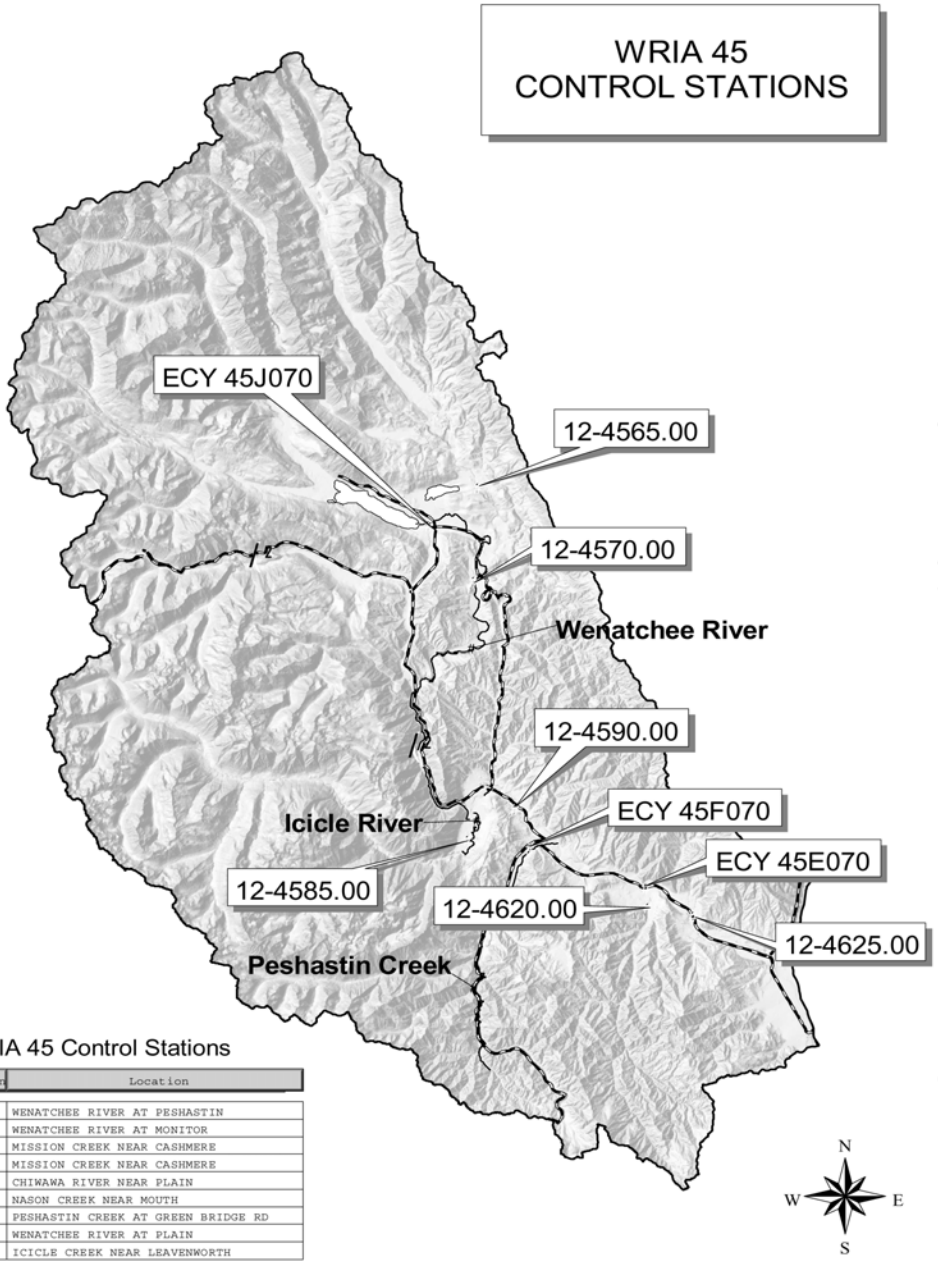
[Statutory Authority: Chapters 90.82, 90.54, 90.22, 90.03, and 90.44 RCW. 08-01-045 (Order 07-06), § 173-545-140, filed 12/12/07, effective 1/12/08.]

WAC 173-545-150 Regulation review. Review of this chapter may be initiated by the department whenever significant new information is available, a significant change in conditions occurs, statutory changes are enacted that are determined by the department to require review of the chapter, or if modifications are necessary based on the reviews described in WAC 173-545-080 and 173-545-090. Chelan County, the planning unit, or other interested citizens with standing may request that the department initiate a review at any time. If the department initiates a review, it will consult with Chelan County and the planning unit or its successor. If necessary, the department will modify the appropriate provisions of this chapter by rule.

The reservation will be evaluated by the department and the Wenatchee planning unit prior to 2010, 2015, 2020, and 2025. The allocated and unallocated amounts for each use will be reviewed, as well as the allocated and unallocated amounts for the entire reserve. Modifications to the program may therefore be implemented by rule, if needed.

[Statutory Authority: Chapters 90.82, 90.54, 90.22, 90.03, and 90.44 RCW. 08-01-045 (Order 07-06), § 173-545-150, filed 12/12/07, effective 1/12/08.]

WAC 173-545-160 Map. For the purposes of administering this chapter, the boundaries of the Wenatchee River basin identified in the figure below are presumed to accurately reflect the basin hydrology.

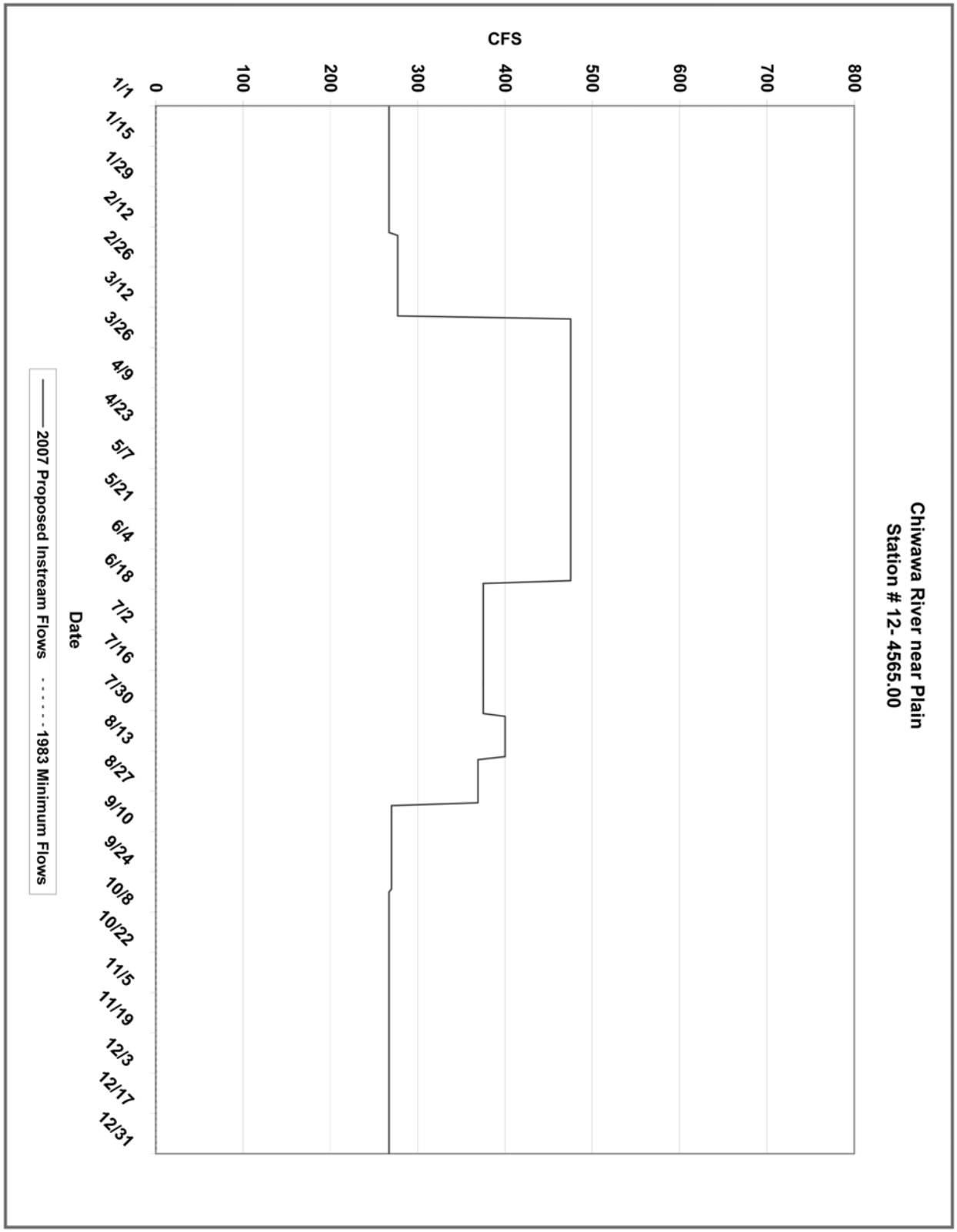


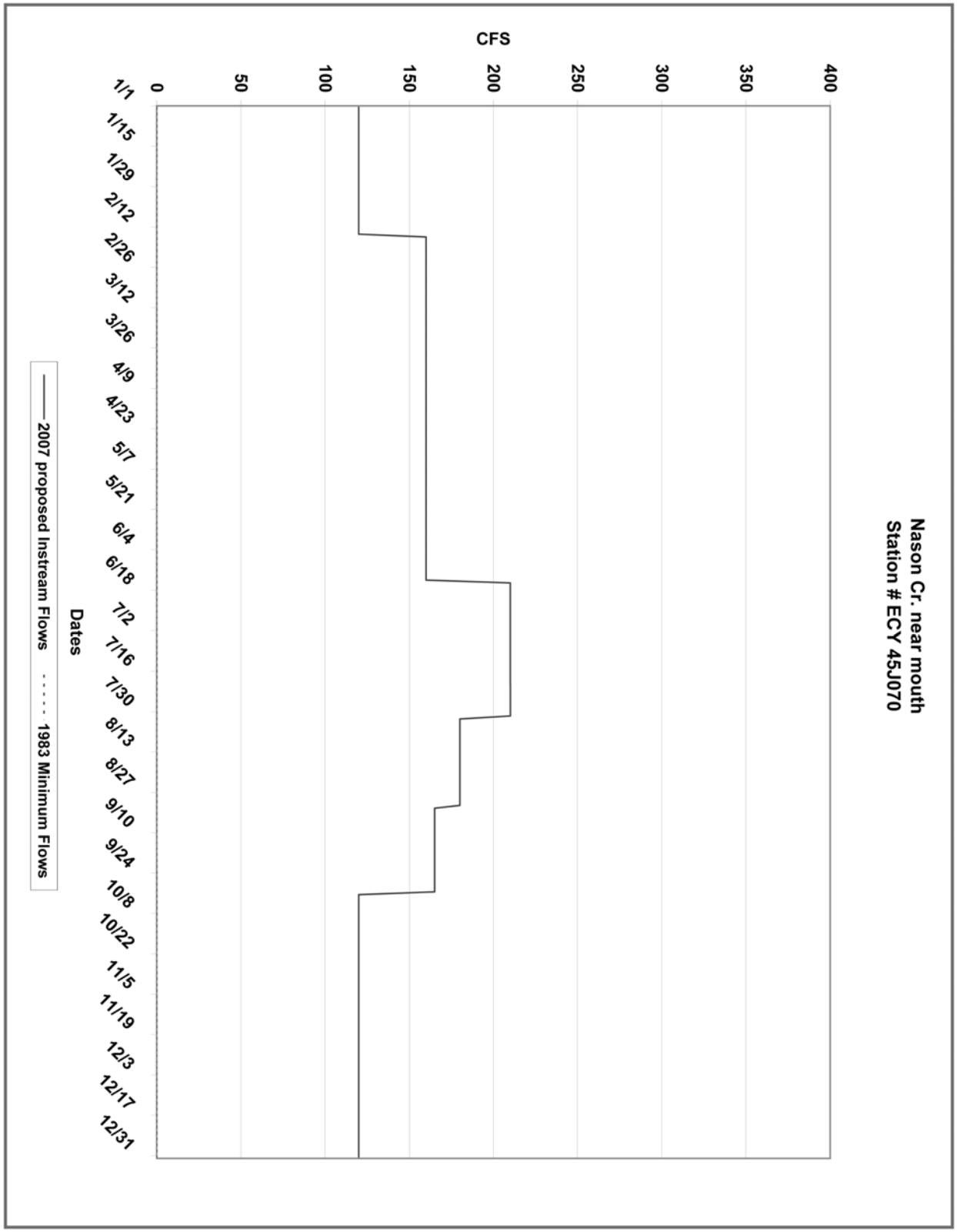
WRIA 45 Control Stations

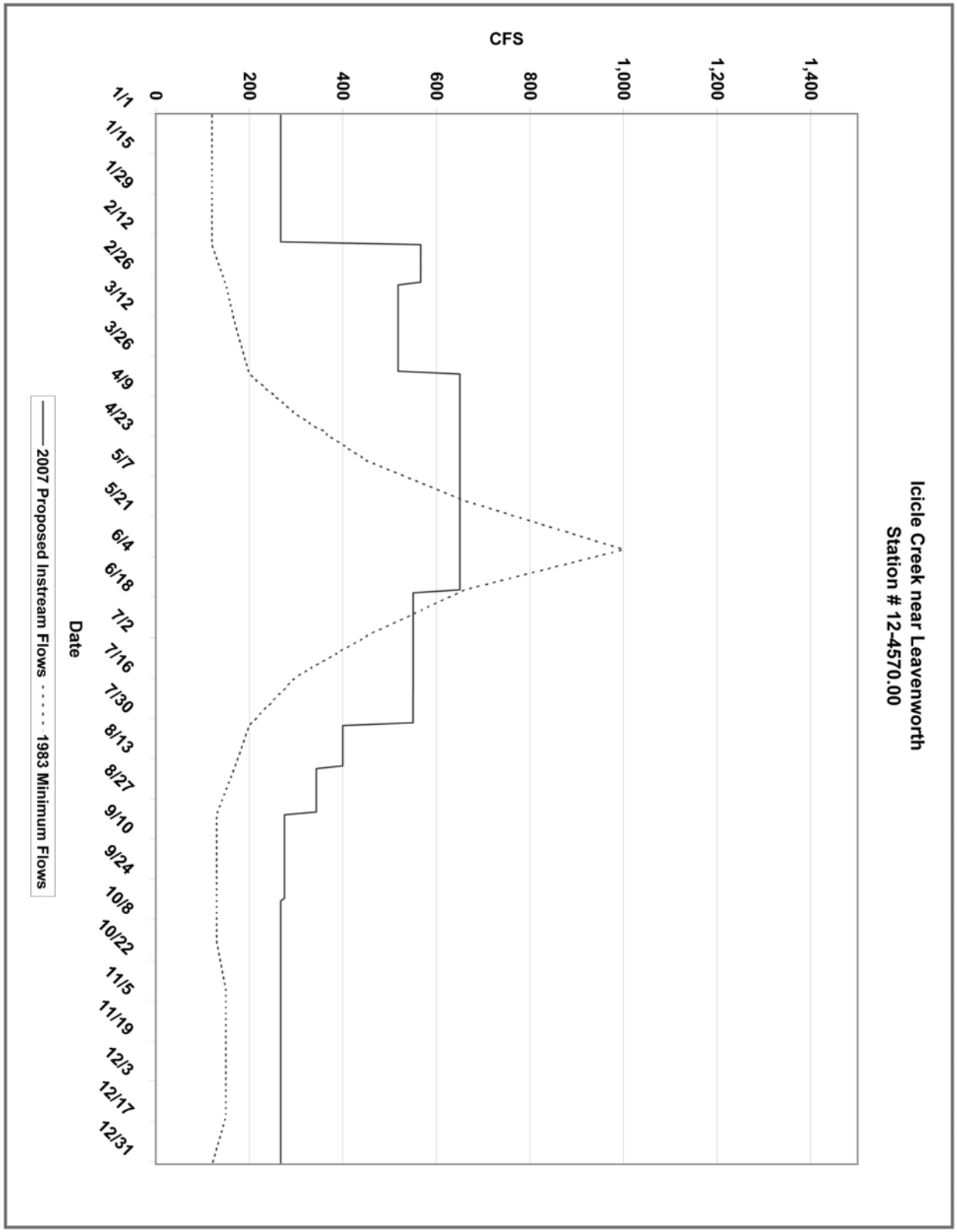
Control Station	Location
12-4590.00	WENATCHEE RIVER AT PESHASTIN
12-4625.00	WENATCHEE RIVER AT MONITOR
12-4620.00	MISSION CREEK NEAR CASHMERE
ECY 45E070	MISSION CREEK NEAR CASHMERE
12-4565.00	CHIWAWA RIVER NEAR PLAIN
ECY 45J070	NASON CREEK NEAR MOUTH
ECY 45F070	PESHASTIN CREEK AT GREEN BRIDGE RD
12-4570.00	WENATCHEE RIVER AT PLAIN
12-4585.00	ICICLE CREEK NEAR LEAVENWORTH

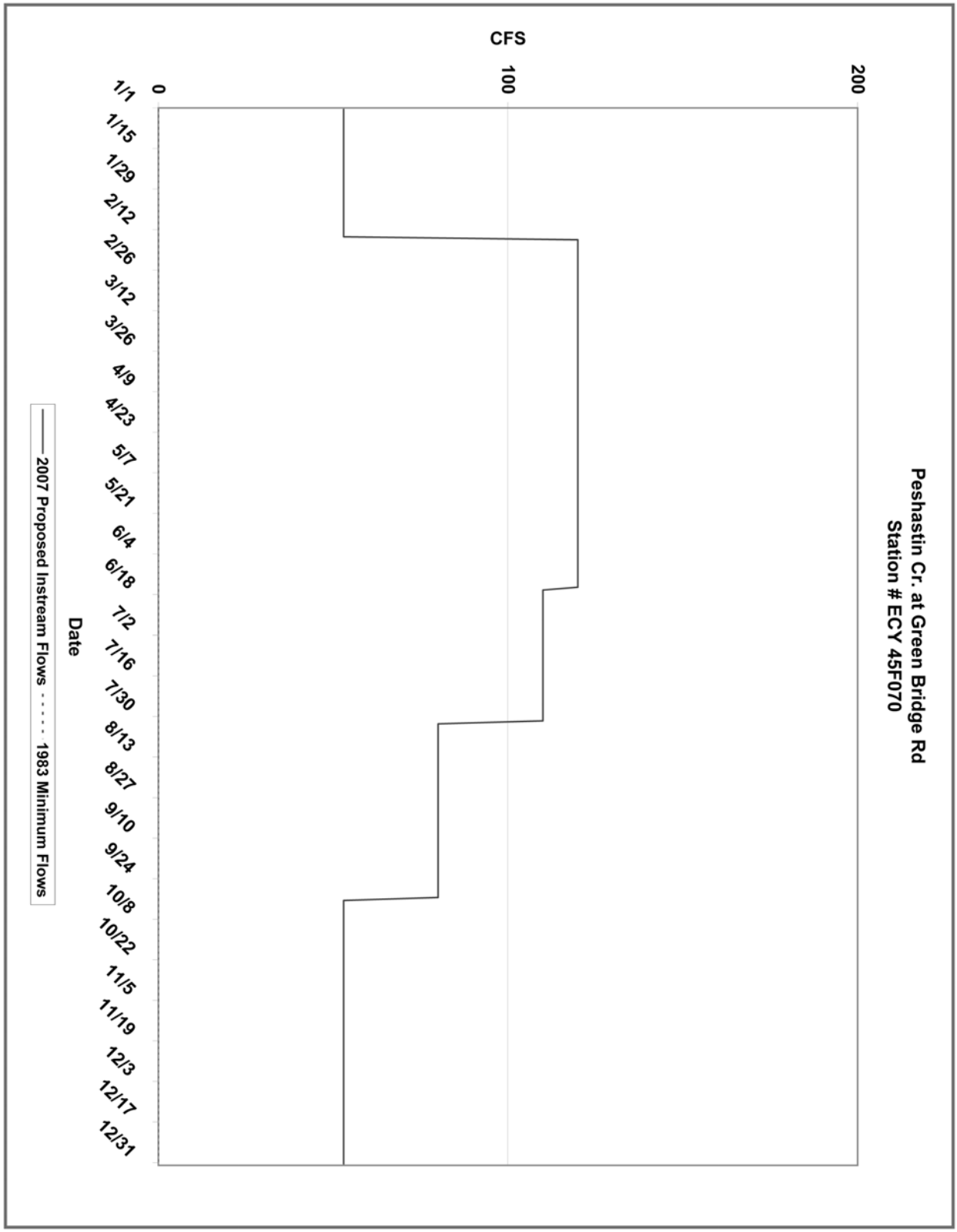
[Statutory Authority: Chapters 90.82, 90.54, 90.22, 90.03, and 90.44 RCW. 08-01-045 (Order 07-06), § 173-545-160, filed 12/12/07, effective 1/12/08.]

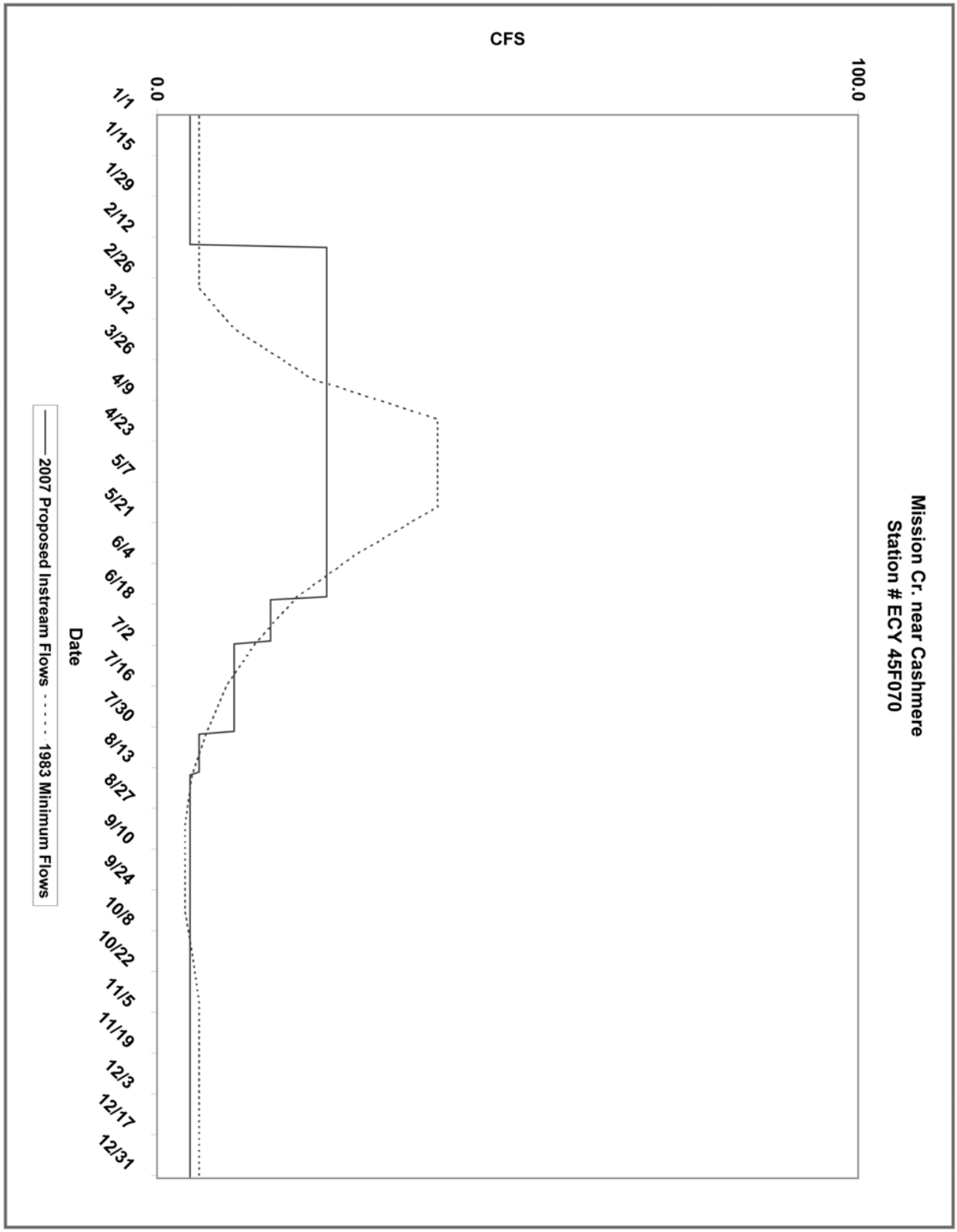
WAC 173-545-170 Appendix 1: Hydrographs.

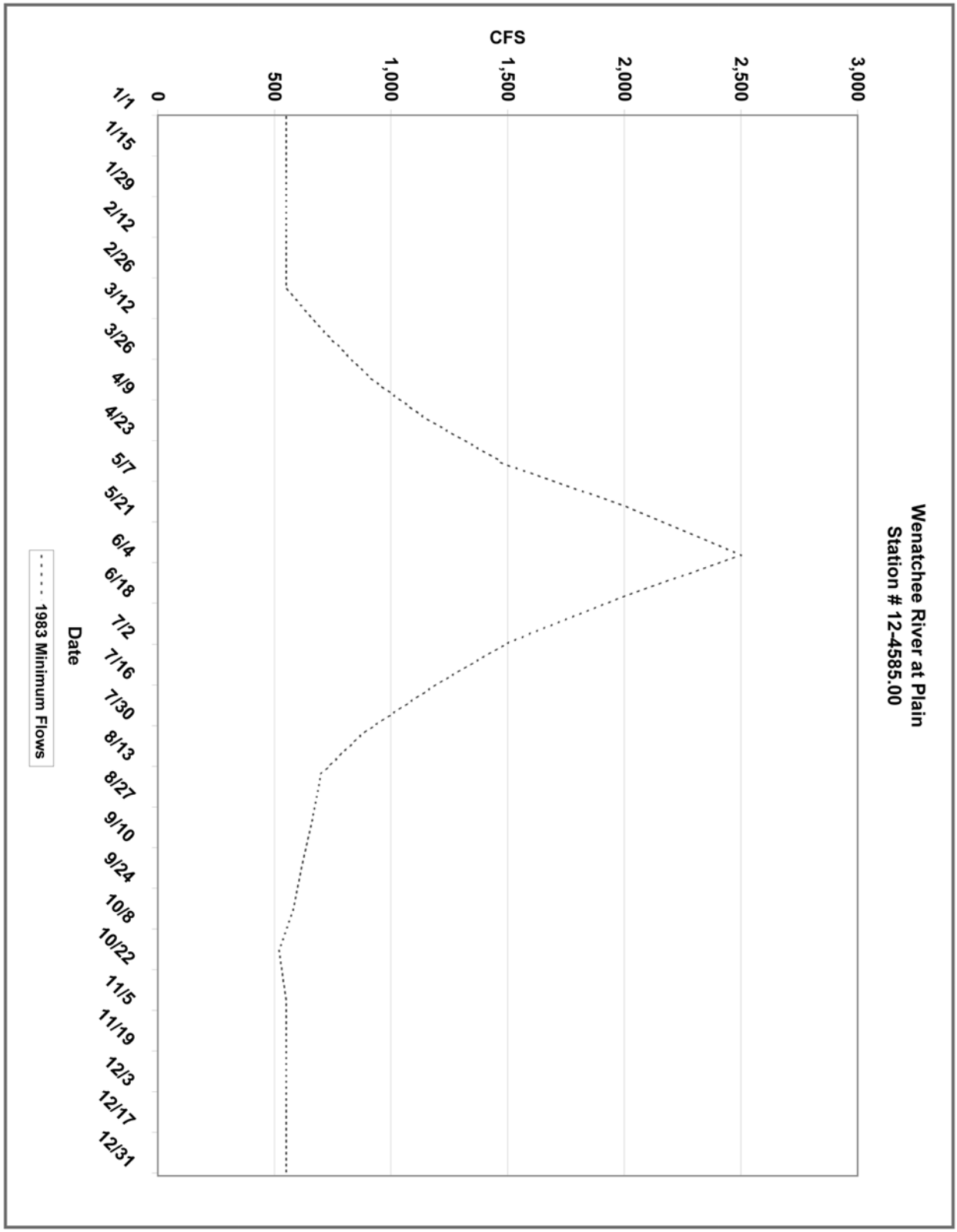



Nason Cr. near mouth
Station # ECY 45J070
CFS
0
50
100
150
200
250
300
350
400
1/1
1/15
1/29
2/12
2/26
3/12
3/26
4/9
4/23
5/7
5/21
6/4
6/18
7/2
7/16
7/30
8/13
8/27
9/10
9/24
10/8
10/22
11/5
11/19
12/3
12/17
12/31
Dates
2007 proposed Instream Flows
1983 Minimum Flows


Icicle Creek near Leavenworth
Station # 12-4570.00
CFS
0
200
400
600
800
1,000
1,200
1,400
1/1
1/15
1/29
2/12
2/26
3/12
3/26
4/9
4/23
5/7
5/21
6/4
6/18
7/2
7/16
7/30
8/13
8/27
9/10
9/24
10/8
10/22
11/5
11/19
12/3
12/17
12/31
Date
2007 Proposed Instream Flows
1983 Minimum Flows


Peshastin Cr. at Green Bridge Rd
Station # ECY 45F070
CFS
0
100
200
1/1
1/15
1/29
2/12
2/26
3/12
3/26
4/9
4/23
5/7
5/21
6/4
6/18
7/2
7/16
7/30
8/13
8/27
9/10
9/24
10/8
10/22
11/5
11/19
12/3
12/17
12/31
Date
2007 Proposed Instream Flows
1983 Minimum Flows


Mission Cr. near Cashmere
Station # ECY 45F070
CFS
100.0
0.0
1/1
1/15
1/29
2/12
2/26
3/12
3/26
4/9
4/23
5/7
5/21
6/4
6/18
7/2
7/16
7/30
8/13
8/27
9/10
9/24
10/8
10/22
11/5
11/19
12/3
12/17
12/31
Date
2007 Proposed Instream Flows
1983 Minimum Flows


Wenatchee River at Plain
Station # 12-4585.00
CFS
3,000
2,500
2,000
1,500
1,000
500
0
1/1
1/15
1/29
2/12
2/26
3/12
3/26
4/9
4/23
5/7
5/21
6/4
6/18
7/2
7/16
7/30
8/13
8/27
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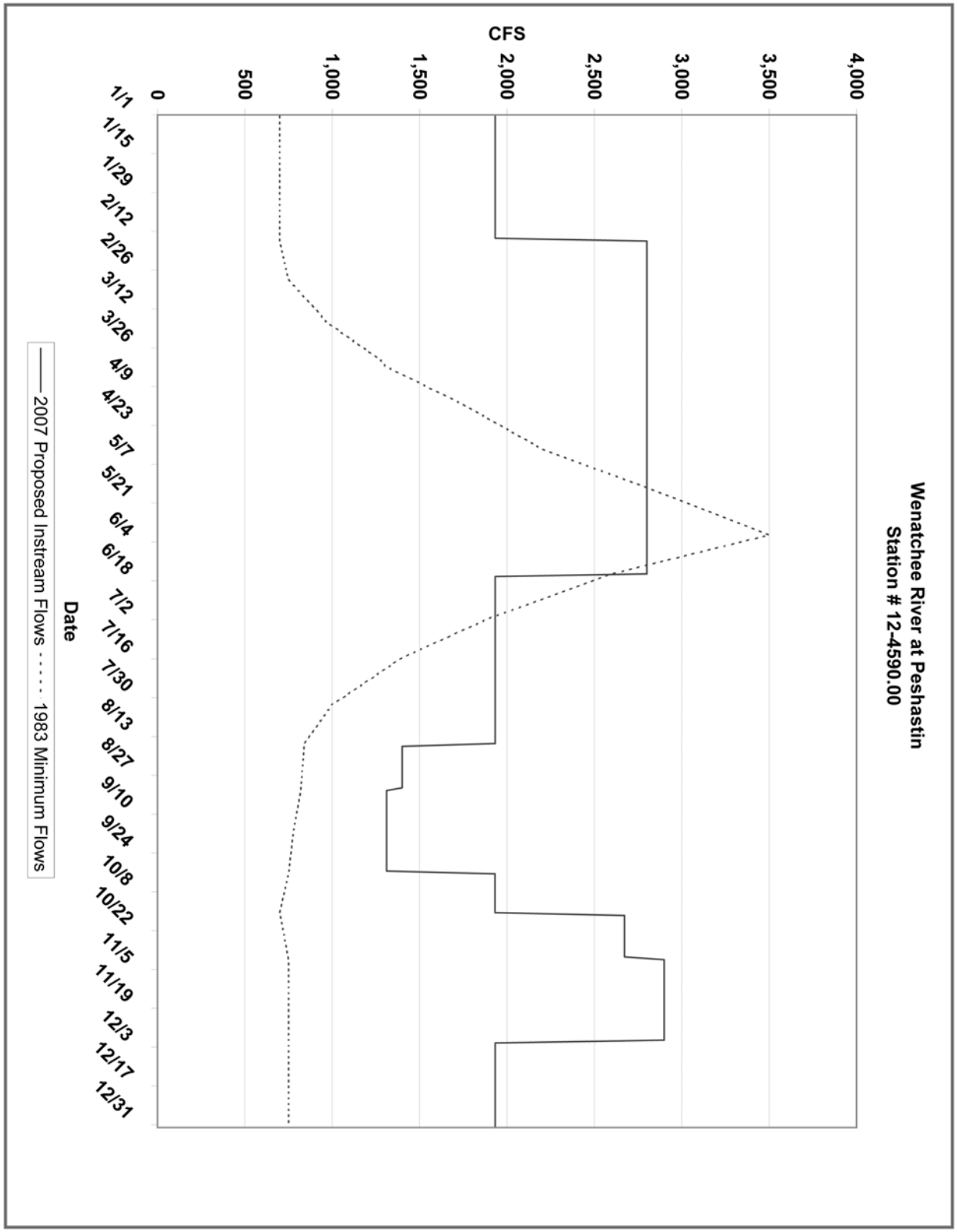
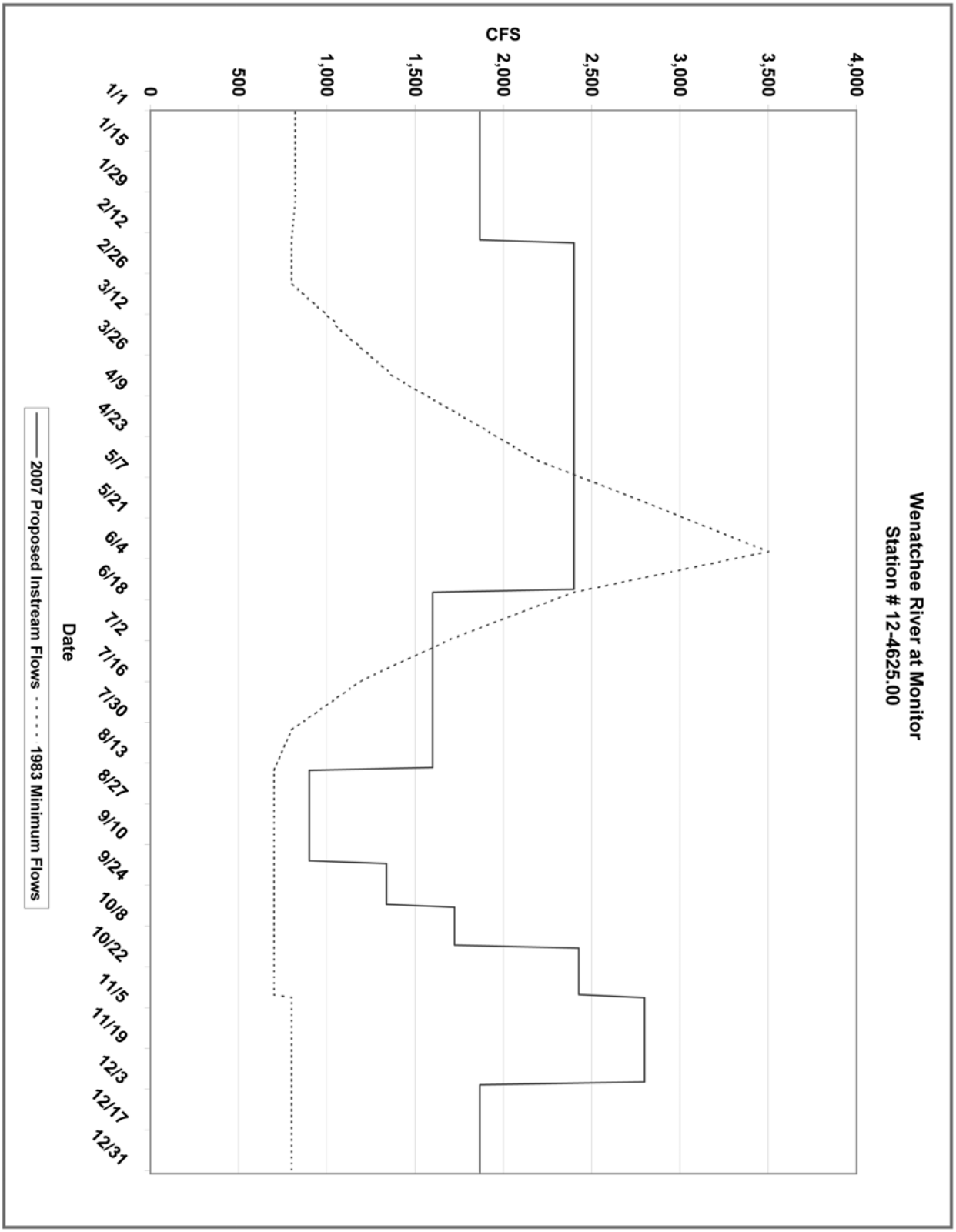
10/8
10/22
11/5
11/19
12/3
12/17
12/31
Date
1983 Minimum Flows


Wenatchee River at Peshastin
Station # 12-4590.00
CFS
4,000
3,500
3,000
2,500
2,000
1,500
1,000
500
0
1/1
1/15
1/29
2/12
2/26
3/12
3/26
4/9
4/23
5/7
5/21
6/4
6/18
7/2
7/16
7/30
8/13
8/27
9/10
9/24
10/8
10/22
11/5
11/19
12/3
12/17
12/31
Date
2007 Proposed Instream Flows
1983 Minimum Flows



[Statutory Authority: Chapters 90.82, 90.54, 90.22, 90.03, and 90.44 RCW. 08-01-045 (Order 07-06), § 173-545-170, filed 12/12/07, effective 1/12/08.]

Chapter 173-900 WAC
ELECTRONIC PRODUCTS RECYCLING PROGRAM

WAC

DISPOSITION OF SECTIONS FORMERLY CODIFIED IN THIS CHAPTER

WAC 173-900-020 Applicability. This chapter applies to:

(1) Any manufacturer, as defined in this chapter.

(2) The authority or authorized party for a covered electronic product (CEP) recycling plan.

(3) Any person who collects covered electronic products (CEPs) in Washington state for a CEP recycling plan approved under this chapter.

(4) Any person who transports covered electronic products (CEPs) in Washington state for a CEP recycling plan approved under this chapter.

(5) Any person who directly processes covered electronic products (CEPs) for a CEP recycling plan approved under this chapter.

(6) Any retailer that offers for sale or sells electronic products and covered electronic products (CEPs) in or into Washington state.

(7) Any local government in Washington state.

(8) Any nonprofit charitable organization that collects covered electronic products (CEPs) in Washington state.

(9) Any household, charity, school district, small business, or small government (covered entities) in Washington state that wants to recycle unwanted covered electronic products (CEPs).

[Statutory Authority: Chapters 70.95N, 70.105, and 70.105D RCW. 07-21-013 (Order 07-05), § 173-900-020, filed 10/5/07, effective 11/5/07. Statutory Authority: Chapter 70.95N RCW. 06-23-040 (Order 06-07), § 173-900-020, filed 11/7/06, effective 12/8/06.]

WAC 173-900-030 Definitions. "Authority" means the Washington materials management and financing authority.

"Authorized party" means a manufacturer who submits an individual independent plan or the entity authorized to submit an independent plan for more than one manufacturer.

"Board" means the board of directors of the Washington materials management and financing authority.

"Brand" means a name used to identify an electronic product in the consumer marketplace which attributes the

electronic product to the owner of the name as the manufacturer.

"Brand label" typically includes but is not limited to name, logos, trademarks, and other visual elements including fonts, color schemes, shapes, symbols, and icons, which, when set in a special typeface or arranged in a particular way, differentiate electronic products by their manufacturers and brand owners.

"Cathode ray tube" or **"CRT"** means a vacuum tube, composed primarily of glass, which is the visual or video display component of an electronic device. A used, intact CRT means a CRT whose vacuum has not been released. A used, broken CRT means glass removed from its housing or casing whose vacuum has been released.

"Certified" means certified by signature on a form or other "hard copy," or by electronic signature or certification by a means implemented and approved by ecology, to be sent by mail or faxed or otherwise submitted to ecology.

"Charity" means an organization that qualifies for a taxation exemption under section 501 (c)(3) of the Internal Revenue Code of 1986 (26 U.S.C. Sec. 501 (c)(3)).

"Collection services" include drop-off collection sites or alternative collection services such as residential at-home pick-up services, curb-side collection, or premium services such as those provided when performing system up-grades at small businesses.

"Collector" means an entity that is licensed to do business in Washington state and that gathers unwanted covered electronic products from households, small businesses, school districts, small governments, and charities for the purpose of recycling and meets the registration and collector performance standard requirements in Part IV, WAC 173-900-400 through 173-900-490.

"Component" includes but is not limited to televisions, computers, laptops, portable computers, monitors, keyboards, mice, and external hard drives.

"Computer" means a machine, used by one user at a time, designed for manipulating data according to a list of instructions known as a program, and are generally known as desktops, laptops, and portable computers. **"Computer"** does not include any of the following:

(a) A machine capable of supporting two or more work stations simultaneously for computing;

(b) Computer servers marketed to professional users; or

(c) Retail store terminals or cash registers, used at customer checkout in the retail industry.

"Contract for services" means an instrument executed by the authority and one or more persons or entities that delineates collection, transportation, processing and recycling services, in whole or in part, that will be provided to the citizens of Washington state within service areas as described in the approved standard plan.

"Covered electronic product" or **"CEP"** includes any one of the following four types of products that has been used in Washington state by any covered entity, regardless of original point of purchase:

(a) Any monitor having a viewable area greater than four inches when measured diagonally;

(b) A desktop computer;

(c) A laptop or a portable computer; or

(d) Any video display device having a viewable area greater than four inches when measured diagonally.

"Covered electronic product" does not include:

(a) A motor vehicle or replacement parts for use in motor vehicles or aircraft, or any computer, computer monitor, or television that is contained within, and is not separate from, the motor vehicle or aircraft;

(b) Monitoring and control instruments or systems;

(c) Medical devices;

(d) Products including materials intended for use as ingredients in those products as defined in the federal Food, Drug, and Cosmetic Act (21 U.S.C. Sec. 301 et seq.) or the Virus-Serum-Toxin Act of 1913 (21 U.S.C. Sec. 151 et seq.), and regulations issued under those acts;

(e) Equipment used in the delivery of patient care in a health care setting;

(f) A computer, computer monitor, or television that is contained within a clothes washer, clothes dryer, refrigerator, refrigerator and freezer, microwave oven, conventional oven or range, dishwasher, room air conditioner, dehumidifier, or air purifier; automatic teller machines, vending machines or similar business transaction machines; or

(g) Hand-held portable voice or data devices used for commercial mobile services as defined in 47 U.S.C. Sec. 332 (d)(1).

"Covered entity" means any household, charity, school district, small business, or small government located in Washington state.

"Curbside service" means a collection service providing regularly scheduled pickup of covered electronic products from households or other covered entities in quantities generated from households.

"Desktop" is a computer designed for nonportable use.

"Direct processor" means a processor contracted with a CEP recycling plan to provide processing services for the plan.

"Ecology" means the department of ecology.

"Electronic product" includes any monitor having a viewable area greater than four inches when measured diagonally; a desktop computer; a laptop or portable computer; or any video display device having a viewable area greater than four inches when measured diagonally.

"Equivalent share" means the weight in pounds of covered electronic products identified for an individual manufacturer as described in Part IX, WAC 173-900-930, 173-900-940, and 173-900-950.

"Existing manufacturers" are those entities whose covered electronic products are offered for sale or sold in or into Washington state, through any sales method, as of December 8, 2006.

"Household" means a single detached dwelling unit or a single unit of a multiple dwelling unit and appurtenant structures.

"Implement" or **"plan implementation"** means that collection, transportation, processing, and recycling services and other plan requirements are fully operational as described in the approved CEP recycling plan.

"Independent plan" means a plan for the collection, transportation, processing and recycling of unwanted covered electronic products that is developed, implemented, and

financed by an individual manufacturer or by an authorized party.

"Laptop" is a computer.

"Manufacturer" means the person who:

(a) Has legal ownership of the brand, brand-name or cobrand of covered electronic products sold in or into Washington state;

(b) Imports an electronic product branded by a manufacturer that meets (a) of this subsection and that manufacturer has no physical presence in the United States of America; or

(c) Sells at retail a covered electronic product acquired from an importer that is the manufacturer as described in (b) of this subsection, and elects to register in lieu of the importer.

"Manufacturers whose CEPs are not directly sold in or into Washington state" are those entities who have never sold or offered for sale covered electronic products in or into Washington state and whose CEP brand names are identified on the return share list or their CEPs are returned for recycling by a covered entity.

"Manufacturers who previously manufactured" are those entities that previously manufactured covered electronic products but no longer do so and whose brand names of CEPs are identified on the return share list or their CEPs are returned for recycling by a covered entity.

"Market share" means a percent of covered electronic products sold in Washington state representing the manufacturer's share of all covered electronic products sold in Washington state assigned to a registered manufacturer based on the calculations in WAC 173-900-280.

"Material" means processed CEPs, components, and parts.

"Materials of concern" are any of the following:

(a) Any devices, including fluorescent tubes, containing mercury or PCBs;

(b) Batteries;

(c) CRTs and leaded glass; and

(d) Whole circuit boards.

"Monitor" is a video display device without a tuner that can display pictures and sound and is used with a computer.

"New entrant" means:

(a) A manufacturer of televisions that have been sold in Washington state for less than ten consecutive years; or

(b) A manufacturer of desktop computers, laptop and portable computers, or computer monitors that have been sold in Washington state for less than five consecutive years;

(c) However, a manufacturer of both televisions and computers or a manufacturer of both televisions and computer monitors that is deemed a new entrant under either only (a) or (b) of this subsection is considered an existing manufacturer and not a new entrant for purposes of this chapter.

"New manufacturers to Washington state" are those entities whose covered electronic products are offered for sale or sold in or into Washington state for the first time after December 8, 2006. These manufacturers become existing manufacturers for all program years after participation the first year.

"Nonprofit organization" means an organization that qualifies for a taxation exemption under section 501(c)(3) of the Internal Revenue Code of 1986 (26 U.S.C. Sec. 501 (c)(3)).

"Offering for sale" means providing electronic products for purchase, in or into Washington state, regardless of sales method.

"Orphan product" means a covered electronic product that lacks a manufacturer's brand or for which the manufacturer is no longer in business and has no successor in interest, or is a brand for which ecology cannot identify an owner.

"Part" means whole pieces out of CEPs, or components such as but not limited to processors, chips, or cathode ray tubes.

"Person" means any individual, business, manufacturer, transporter, collector, processor, retailer, charity, nonprofit organization, or government agency.

"Plan" means a CEP recycling plan.

"Plan's equivalent share" means the weight in pounds of covered electronic products for which a plan is responsible. A plan's equivalent share is equal to the sum of the equivalent shares of each manufacturer participating in that plan.

"Plan's return share" means the sum of the return shares of each manufacturer participating in that plan.

"Portable computer" is a computer.

"Preferred status" means that a direct processor is conforming with the performance standards for electronic product recycling as described in ecology's publication "*Environmentally Sound Management and Performance Standards for Direct Processors*."

"Premium service" means services such as at-location system upgrade services provided to covered entities and at-home pickup services offered to households or any handling requirements imposed by the covered entity in excess of those required in this chapter.

"Premium service" does not include curbside service.

"Processing facility" means a facility where the processing of CEPs for a plan is conducted by a direct processor.

"Providing processing services" means disassembling, dismantling, or shredding electronic products to recover materials contained in the CEPs received from registered collectors or transporters and preparing those materials for reclaiming or reuse in accordance with processing standards established by this chapter.

"Processor" means an entity:

(a) Engaged in disassembling, dismantling, or shredding electronic products to recover materials contained in the electronic products and preparing those materials for reclaiming or reuse in new products in accordance with processing standards established by this chapter; and

(b) That may salvage CEPs, components, and parts to be used in new products.

"Product type" means one of the following categories: Computer monitors; desktop computers; laptop and portable computers; and televisions.

"Program" means the collection, transportation, processing and recycling activities conducted to implement an independent plan or the standard plan. Programs can vary for different areas of the state.

"Program year" means each full calendar year after the program has been initiated.

"Recycling" means transforming or remanufacturing unwanted electronic products, components, and by-products into usable or marketable materials for use other than landfill

disposal or incineration. **"Recycling"** does not include energy recovery or energy generation by means of combusting unwanted electronic products, components, and by-products with or without other waste. Smelting of electronic materials to recover metals for reuse in conformance with all applicable laws and regulations is not considered disposal or energy recovery.

"Residual" means leftover materials from processing CEPs, components, parts and materials. Residuals cannot be used for their original function or cannot be recycled and are sent by a processor to a disposal facility.

"Retailer" means a person who offers covered electronic products for sale at retail through any means including, but not limited to, remote offerings such as sales outlets, catalogs, or the internet, but does not include a sale that is either reused products or a wholesale transaction with a distributor or a retailer.

"Return share" means the percentage of covered electronic products by weight identified for an individual manufacturer, as determined by ecology.

"Reuse" means any operation by which an electronic product or a component of a covered electronic product changes ownership and is used, as is, for the same purpose for which it was originally purchased.

"Sell" or **"sold"** means an electronic product is purchased regardless of sales method.

"Small business" means a business employing less than fifty people.

"Small government" means a city in Washington state with a population less than fifty thousand, a county in Washington state with a population less than one hundred twenty-five thousand, and special purpose districts in Washington state.

"Standard plan" means the plan for the collection, transportation, processing and recycling of unwanted covered electronic products developed, implemented, and financed by the authority on behalf of manufacturers participating in the authority.

"Television" is an enclosed video display device with a tuner able to receive and output frequency waves or digital signals to display pictures and sounds.

"Transporter" means an entity that transports covered electronic products from collection sites or services to processors or other locations for the purpose of recycling, but does not include any entity or person that hauls their own unwanted electronic products.

"Unwanted electronic product" means a covered electronic product that has been discarded or is intended to be discarded by its owner.

"White box manufacturer" means a person who manufactured unbranded covered electronic products offered for sale in Washington state within ten consecutive years prior to a program year for televisions or within five consecutive years prior to a program year for desktop computers, laptop or portable computers, or computer monitors.

"Video display devices" include units capable of presenting images electronically on a screen, with a viewable area greater than four inches when measured diagonally, viewed by the user and may include cathode ray tubes, flat panel computer monitors, plasma displays, liquid crystal displays, rear and front enclosed projection devices, and other similar displays that exist or may be developed. Televisions and monitors are video display devices.

[Statutory Authority: Chapters 70.95N, 70.105, and 70.105D RCW. 07-21-013 (Order 07-05), § 173-900-030, filed 10/5/07, effective 11/5/07. Statutory Authority: Chapter 70.95N RCW. 06-23-040 (Order 06-07), § 173-900-030, filed 11/7/06, effective 12/8/06.]

WAC 173-900-200 Manufacturers who must register and participate in a CEP recycling plan. (1) The following manufacturers must register with ecology and participate in a CEP recycling plan:

Table 200
Type of Manufacturer

Type of Manufacturer		Initial Registration Due Date	Must be Listed as a Plan Participant By:
Existing manufacturers	Those entities whose CEPs are offered for sale or sold in or into Washington state, as of December 8, 2006.	On or before January 1, 2007.	No later than February 1, 2008.
New manufacturers to Washington state	Those entities whose CEPs are offered for sale or sold in or into Washington state for the first time after December 8, 2006.	Prior to the offering for sale of their CEPs in or into WA.	Within thirty days of ecology approving registration.
Manufacturers whose CEPs are not directly sold in or into Washington state	If a CEP brand is identified in the Washington state return share list or is returned for recycling by a covered entity, a manufacturer must register even if that manufacturer has never sold or offered for sale the identified brands directly in or into Washington state.	Within sixty days of receiving notice from ecology that the manufacturer must register.	Within thirty days of ecology approving registration.
Manufacturers who previously manufactured	Those entities that previously manufactured CEPs but no longer do so and whose brand names of CEPs are identified in the Washington state return share list or their CEPs are returned for recycling by a covered entity.	Within sixty days of receiving notice from ecology that the manufacturer must register.	Within thirty days of ecology approving registration.

(2) A manufacturer is registered under this chapter when:

(a) Ecology has determined the manufacturer's registration form is complete and accurate; and

(b) The manufacturer has paid the required administrative fee (see WAC 173-900-280).

(3) Registration under this chapter is only for purposes of administering the electronic product recycling program, and does not constitute endorsement by ecology of a particular registrant.

(4) A manufacturer must participate in either the standard plan or, if approved, an independent plan.

(5) In the event that the plan fails to meet the manufacturers' obligations under this chapter, each manufacturer participating in the plan retains responsibility and liability, including financial liability, for the collection, transportation, processing, and recycling of the manufacturer's equivalent share of CEPs as described in this chapter.

[Statutory Authority: Chapters 70.95N, 70.105, and 70.105D RCW. 07-21-013 (Order 07-05), § 173-900-200, filed 10/5/07, effective 11/5/07. Statutory Authority: Chapter 70.95N RCW. 06-23-040 (Order 06-07), § 173-900-200, filed 11/7/06, effective 12/8/06.]

WAC 173-900-205 Manufacturer's brands of CEPs that can be offered for sale or sold in or into Washington state. (1) In order for a manufacturer's brands of CEPs to be offered for sale or sold in or into Washington state, the manufacturer's name and brand names must be listed on the "manufacturer registration list" as "in compliance" or "pending" status.

(2) To be in "in compliance" status a manufacturer must:

(a) **As of January 1, 2007:**

(i) Register annually with ecology;

(ii) Update registration information if it changes;

(iii) Label the manufacturer's CEPs with the manufacturer's brand name(s) included in the manufacturer's registration information.

(b) **As of February 1, 2008:**

(i) Register annually with ecology;

(ii) Update registration information if it changes;

(iii) Label the CEPs with the manufacturer's brand name(s) included in the manufacturer's registration information; and

(iv) Participate in a CEP recycling plan approved, or submitted for approval, by ecology.

Table 205
Manufacturer Status

Manufacturer Status	Can the manufacturer's brands of CEPs be offered for sale or sold in or into Washington state?	Explanation
Pending	Yes	"Pending" means ecology has received the manufacturer's registration form and administrative fee and ecology is reviewing the form.
In compliance	Yes	"In compliance" means ecology has approved the manufacturer's registration, the manufacturer is participating in a plan, and is complying with the requirements in this chapter.
In violation	No	"In violation" means the manufacturer is in violation of the requirements in this chapter.
Manufacturer's **brand name** is not on the "manufacturer registration list"	No	If a manufacturer's brand name is not on the "manufacturer registration list," that brand must not be offered for sale or sold in or into Washington state.
Manufacturer's name is not on the "manufacturer registration list"	No	If a manufacturer's name is not on the "manufacturer registration list," none of the manufacturer's brands of CEPs can be offered for sale or sold in or into Washington.

[Statutory Authority: Chapters 70.95N, 70.105, and 70.105D RCW. 07-21-013 (Order 07-05), § 173-900-205, filed 10/5/07, effective 11/5/07.]

WAC 173-900-210 Required brand labeling for manufacturers. (1) Beginning January 1, 2007, no person may sell or offer for sale an electronic product to any person in or into Washington state unless the electronic product is labeled with the manufacturer's brand.

(2) The label must be permanently affixed and readily visible.

(3) In-state retailers in possession of unlabeled, or white box, electronic products on January 1, 2007, may exhaust their stock through sales to the public.

[Statutory Authority: Chapters 70.95N, 70.105, and 70.105D RCW. 07-21-013 (Order 07-05), § 173-900-210, filed 10/5/07, effective 11/5/07. Statutory

Authority: Chapter 70.95N RCW. 06-23-040 (Order 06-07), § 173-900-210, filed 11/7/06, effective 12/8/06.]

WAC 173-900-215 Initial CEP manufacturer registration.

Step 1: Complete the manufacturer registration form.

(1) CEP manufacturers must use the on-line or paper manufacturer registration form provided by ecology.

(2) A manufacturer must provide all of the following information to ecology:

(a) The name, contact, and billing information of the manufacturer;

(b) The manufacturer's brand names of CEPs, including:

(i) All brand names sold in Washington state in the past, including the years each brand was sold;

(ii) All brand names currently being sold in Washington state, including the year the manufacturer started using the brand name;

(c) All brand names of electronic products for which the registrant assembles but does not have legal ownership of the brand name placed on the product;

(d) When a word or phrase is used as the label, the manufacturer must include that word or phrase and a general description of the ways in which it may appear on the manufacturer's electronic products;

(e) When a logo, mark, or image is used as a label, the manufacturer must include a graphic representation of the logo, mark, or image and a general description of the logo, mark, or image as it appears on the manufacturer's electronic products;

(f) The method or methods of sale used in or into Washington state; and

(g) CEP recycling plan participation information.

Step 2: Submit the manufacturer registration form.

(3) The individual responsible for implementing the manufacturer's requirements under this chapter must sign the form. The signature means the manufacturer has provided accurate and complete information on the form and reviewed their responsibilities under the electronic product recycling program.

(4) The manufacturer must submit the form using one of the three options below:

(a) The on-line registration form;

(b) The original paper version through the U.S. Postal Service:

Department of Ecology
Electronic Product Recycling
Solid Waste and Financial Assistance Program
P.O. Box 47600
Olympia, WA 98504-7600

(c) The original paper version through a courier:

Department of Ecology
Electronic Product Recycling
Solid Waste and Financial Assistance Program
300 Desmond Drive
Lacey, WA 98503

Step 3: Pay the administrative fee.

(5) The following manufacturers must pay an annual administrative fee to ecology (see WAC 173-900-280 and ecology's web site for administrative fee schedule):

(a) Existing manufacturers;

(b) New manufacturers.

(6) Starting in 2007, ecology will send out billing statements by November 1 of each year to all registered manufacturers. The billing statement will include the amount of the administrative fee owed by the manufacturer.

(7) **New manufacturers** must send ecology the required administrative fee so that ecology receives the fee within sixty days of the date on the billing statement.

(8) **Existing manufacturers** must send ecology the appropriate administrative fee so that ecology receives it no later than January 1 of each calendar year.

(9) The manufacturer must send payment to one of the following addresses:

For U.S. Postal Service:

Department of Ecology
Electronic Product Recycling Program
P.O. Box 5128
Lacey, WA 98509-5128

For Courier to:

Department of Ecology
Attn: Fiscal Cashiering
300 Desmond Drive
Lacey, WA 98503

[Statutory Authority: Chapters 70.95N, 70.105, and 70.105D RCW. 07-21-013 (Order 07-05), § 173-900-215, filed 10/5/07, effective 11/5/07.]

WAC 173-900-220 How manufacturers know if they are registered.

Step 1: Ecology review of the manufacturer registration form.

(1) Within five business days of ecology receiving a manufacturer registration form and the required administrative fee (see WAC 173-900-280), ecology will:

(a) Place the manufacturer in "pending" status on the "manufacturer registration list"; and

(b) Place the manufacturer's "currently owned and manufactured" brand names included on the form on the "manufacturer registration list."

(2) The manufacturer's brands of CEPs included on the "manufacturer registration list" can be sold or offered for sale in or into Washington state.

(3) Ecology will review the form to determine if the form is complete and accurate.

(4) If the form is not complete and accurate, or the manufacturer has not paid the required administrative fee, ecology will contact the manufacturer to request one or both of the following:

(a) A revised form that contains the complete and missing information;

(b) The unpaid administrative fee.

(5) The manufacturer must submit the administrative fee and all requested information within thirty days from the day ecology contacted the manufacturer.

Step 2: Approval or denial of manufacturer registration.

(6) **Approval.**

(a) Approval means that ecology has received the manufacturer's administrative fee and has determined the registration form is complete and accurate.

(b) If ecology approves the manufacturer's registration:

(i) Ecology will change the manufacturer's status from "pending" to "in compliance" on the "manufacturer registration list"; and

(ii) The manufacturer's registered brands of CEPs can continue to be offered for sale or sold in or into Washington state.

(7) **Denial.**

(a) Denial means that ecology either did not receive the administrative fee or ecology has determined the form is not complete and accurate and the manufacturer has not submitted the revised information as requested.

(b) If ecology denies a manufacturer's registration:

(i) Ecology will either change the manufacturer's status from "pending" to "in violation" on the "manufacturer registration list" or remove the manufacturer's name from the list;

(ii) Ecology will notify the manufacturer of the denial; and

(iii) The manufacturer's brands of CEPs are not allowed to be offered for sale or sold in or into Washington state.

(c) For initial manufacturer registration, if ecology denies a registration, the manufacturer may resubmit an initial registration form.

[Statutory Authority: Chapters 70.95N, 70.105, and 70.105D RCW. 07-21-013 (Order 07-05), § 173-900-220, filed 10/5/07, effective 11/5/07.]

WAC 173-900-230 Annual manufacturer registration. (1) After initial registration, to remain registered, manufacturers must submit a registration form and required administrative fee to ecology each year.

(2) Annual registration is due no later than January 1 of each calendar year for the next program year.

(3) The manufacturer must submit the annual registration form using one of the options below:

(a) Submit the manufacturer's on-line registration form;

(b) Submitting a paper version through:

U.S. Postal Service:

Department of Ecology
Electronic Product Recycling
Solid Waste and Financial Assistance Program
P.O. Box 47600
Olympia, WA 98504-7600

Courier Service:

Department of Ecology
Electronic Product Recycling
Solid Waste and Financial Assistance Program
300 Desmond Drive
Lacey, WA 98503

(4) Ecology will review manufacturer registration forms submitted for annual registration under the process described in WAC 173-900-220.

(5) For annual registrations, if ecology denies the manufacturer's registration form, the manufacturer will be removed from the "manufacturer registration list."

[Statutory Authority: Chapters 70.95N, 70.105, and 70.105D RCW. 07-21-013 (Order 07-05), § 173-900-230, filed 10/5/07, effective 11/5/07.]

WAC 173-900-240 Updates to manufacturer registration. (1) If there are any changes to the information on the manufacturer's registration approved by ecology, a registered manufacturer must submit an updated form within fourteen days of when any change occurs.

(2) The manufacturer must submit updates using one of the options below:

(a) Updating the manufacturer's registration information using the on-line form;

(b) Submitting a paper version of the form with updated information through:

U.S. Postal Service to:

Department of Ecology
Electronic Product Recycling
Solid Waste and Financial Assistance Program
P.O. Box 47600
Olympia, WA 98504-7600

Courier Service to:

Department of Ecology
Electronic Product Recycling
Solid Waste and Financial Assistance Program
300 Desmond Drive
Lacey, WA 98503

(3) Ecology will review manufacturer's updated registration forms under the process described in WAC 173-900-220.

[Statutory Authority: Chapters 70.95N, 70.105, and 70.105D RCW. 07-21-013 (Order 07-05), § 173-900-240, filed 10/5/07, effective 11/5/07.]

WAC 173-900-250 Ecology determination of manufacturer compliance. (1) Beginning January 1, 2007, ecology may inspect any retailer's CEP inventory offered for sale in or into Washington state to determine if the requirements in this chapter are met. If ecology determines a violation has occurred, ecology will document each violation and follow the warning, violations, and penalties procedures in Part II, WAC 173-900-255, 173-900-260, and 173-900-270 (for manufacturers) and Part VII, WAC 173-900-730, 173-900-740, and 173-900-750 (for retailers) of this chapter.

(2) Beginning January 1, 2007, ecology may check any retailer's CEP inventory offered for sale in or into Washington state to determine if brand labeling requirements in WAC 173-900-210 have been met. If ecology determines a violation has occurred, ecology will document each violation and follow the warning, violations, and penalties procedures in Part II, WAC 173-900-255, 173-900-260, and 173-900-270 (for manufacturers) and Part VII, WAC 173-900-730, 173-900-740, and 173-900-750 (for retailers) of this chapter.

[Statutory Authority: Chapters 70.95N, 70.105, and 70.105D RCW. 07-21-013 (Order 07-05), § 173-900-250, filed 10/5/07, effective 11/5/07.]

WAC 173-900-255 Manufacturer violations. (1) A manufacturer is in violation of this chapter when there is a:

(a) Registration violation;

(b) Labeling violation;

(c) Plan violation; or

(d) Return share violation.

Manufacturer registration violations:

(2) A manufacturer is in "registration violation" of this chapter if any of the following occurs:

(a) The manufacturer does not submit an updated registration form within fourteen days of changes in the registration information.

(b) A manufacturer offers for sale or sells its brand of CEPs in or into Washington state and:

(i) The manufacturer's brand is not listed as in "in compliance" or "pending" status on the "manufacturer registration list"; or

(ii) The manufacturer's brand name is not listed as part of the manufacturer's registration.

(c) A retailer offers for sale or sells a manufacturer's brand of CEP in or into Washington state and on the date the products were ordered from the manufacturer or their agent:

(i) The manufacturer's brand was not listed as in "in compliance" or "pending" status on the "manufacturer registration list";

(ii) The brand name of the CEP was not listed as in "in compliance" or "pending" status on the "manufacturer registration list."

(3) A manufacturer may notify retailers, in writing, if the manufacturer's brand of CEPs cannot be offered for sale or sold in or into Washington state. The manufacturer must provide ecology a copy of this notice to avoid a registration violation.

(4) Each unregistered CEP unit offered for sale or sold is a separate violation by the manufacturer.

Manufacturer labeling violation:

(5) A manufacturer is in "labeling violation" of this chapter if any of the following occurs:

(a) The manufacturer offers for sale or sells a manufacturer's electronic product in or into Washington state that does not have a permanently affixed or readily visible label with the manufacturer's brand name.

(b) A retailer offers for sale or sells the manufacturer's electronic product in or into Washington state that the manufacturer has not labeled with the manufacturer's brand name.

(6) Each of the manufacturer's unlabeled units offered for sale or sold is a separate violation by the manufacturer.

Manufacturer plan violation:

(7) Starting February 1, 2008, a manufacturer is in "plan violation" of this chapter if any of the following occurs, the manufacturer:

(a) Has not met the manufacturer's financial obligations to its plan; or

(b) Is not participating in a plan or complying with the manufacturer's responsibilities as described in their ecology approved plan; or

(c) Is participating in a plan that is not fully implemented and the authority or authorized party has not taken action approved by ecology to correct violations.

Return share violation:

(8) It is a "return share violation" when the manufacturer's brands of CEPs are identified on ecology's return share list posted on the agency web site and:

(a) Within sixty days of receiving notice from ecology, the manufacturer has not registered with ecology; or

(b) Within thirty days of registering is not participating in a plan.

[Statutory Authority: Chapters 70.95N, 70.105, and 70.105D RCW. 07-21-013 (Order 07-05), § 173-900-255, filed 10/5/07, effective 11/5/07.]

WAC 173-900-260 Warnings and penalties for manufacturer violations.

Table 260
Manufacturer Warning and Penalties

Type of Violation	Written Warning	First Penalty	Second and Subsequent Penalties
Registration Violation	Warning Letter	Up to $1,000	Up to $2,000
Labeling Violation	Warning Letter	Up to $1,000	Up to $2,000
Plan Violation	Warning Letter	Up to $10,000	Up to $10,000
Return Share Violation	Warning Letter	Up to $10,000 plus the percentage of their return share of the costs of operating the standard plan.	Up to $10,000 plus the percentage of their return share of the costs of operating the standard plan.

Warning letter:

(1) When ecology issues a written warning letter via certified mail, for any violation, the warning will include a copy of the requirements to let the manufacturer know what the manufacturer must do to be in compliance status.

Penalties:

(2) **First penalties:** If the manufacturer does not meet the compliance requirements in the warning letter within thirty days of receipt of the warning, ecology will assess a first penalty, as defined in Table 260 above and do one of the following:

(a) Change the manufacturer's status to "in violation";

(b) Add the manufacturer to the "manufacturer registration list" and put them in "in violation."

(3) **Second and subsequent penalties:** Ecology will issue second and subsequent penalties as defined in Table 260 no more often than every thirty days for the same violation.

(4) Ecology will deposit all penalties collected under this section into the electronic products recycling account created under RCW 70.95N.130.

Appeals:

(5) Violations and penalties may be appealed to the pollution control hearings board, pursuant to chapter 43.21B RCW.

[Statutory Authority: Chapters 70.95N, 70.105, and 70.105D RCW. 07-21-013 (Order 07-05), § 173-900-260, filed 10/5/07, effective 11/5/07.]

WAC 173-900-270 Corrective actions for manufacturer violations. (1) If a manufacturer is in "in violation" status, ecology will not return them to "in compliance" status until the manufacturer corrects the violation.

Corrective actions for manufacturer registration violations:

(2) To correct a registration violation the manufacturer must:

(a) Provide evidence that the violation has been corrected; and

(b) Pay or settle any penalties to ecology.

Corrective actions for manufacturer labeling violations:

(3) To correct a labeling violation the manufacturer must:

(a) Meet the requirements in WAC 173-900-210;

(b) Correct any other violations; and

(c) Pay or settle any penalties due to ecology.

Corrective actions for plan violations:

(4) To correct a plan violation the manufacturer must:

(a) Join and participate in an approved plan or a plan currently under review for approval;

(b) Correct any other violations; and

(c) Pay or settle any penalties due to ecology.

Corrective actions for return share violations:

(5) To correct a return share violation the manufacturer must:

(a) Join and participate in an approved plan or a plan currently under review for approval;

(b) Correct any other violations; and

(c) Pay or settle any penalties due to ecology.

[Statutory Authority: Chapters 70.95N, 70.105, and 70.105D RCW. 07-21-013 (Order 07-05), § 173-900-270, filed 10/5/07, effective 11/5/07.]

WAC 173-900-280 Administrative fee. (1) **Legislative mandate.** The administrative fee covers ecology's administrative costs related to implementing the electronic product recycling program authorized under chapter 70.95N RCW. It does not include the fees for ecology's review of the standard plan or independent plans.

(2) **Data.**

(a) Ecology will use data collected to extrapolate Washington market shares, and to calculate manufacturer unit sales. Ecology will use market share and/or CEP unit sales to assign each manufacturer to an administrative fee tier. Ecology may use any of, or a combination of, the following data:

(i) Generally available market research data;

(ii) CEP unit sales data supplied by manufacturers for brands they manufacture or sell; or

(iii) CEP unit sales data supplied by retailers for brands they sell.

(b) Ecology may put the data directly into the data base. Ecology will aggregate the data in sets of at least three companies for confidentiality when published.

(3) **Distribution:**

(a) Ecology will establish a fee schedule to distribute administrative fees on a sliding scale, based on tiers, that are representative of annual sales of CEPs in Washington state.

(b) Fees will be distributed to each tier in order to spread costs based on the estimated unit sales given the number of manufacturers and the amount of revenue that needs to be generated to cover ecology's administrative costs.

(c) Tier 7 will have no fee amount associated with it, but the manufacturers assigned to this tier must still complete the registration form (see WAC 173-900-215) and join a plan.

Table 280
Market Share Tiers

Tiers	Manufacturer's Market Share
Tier 1	5% or greater
Tier 2	1% to < 5%
Tier 3	0.1% to < 1%
Tier 4	0.03% to < 0.1%
Tier 5	0.01% to < 0.03%
Tier 6	< 0.01%
Tier 7	Manufacturers who previously manufactured Manufacturers whose CEPs are not directly sold in or into Washington state

(4) **Calculating the administrative fee:** Ecology will calculate the tiers based on the combined unit sales of CEPs sold under manufacturer brands as a percentage of the total sales of electronic products sold in or into Washington state.

(a) **Administrative fee tier calculations for program year 2007:** For administrative fees due January 1, 2007, ecology will base fees on the amount appropriated in the budget for the electronic product recycling program by the legislature. Year one includes start-up costs and it funds the first eighteen months of operations. This amount is four hundred seventy-five thousand dollars.

(b) **Administrative fee tier calculations for program year 2008 and future years:**

(i) For administrative fees due January 1, 2008, and thereafter, ecology will base the fee on the expenditure authority for the electronic product recycling program which for program year 2008 is two hundred twenty-one thousand five hundred dollars.

(ii) The total administrative fee amount will be adjusted biannually by the fiscal growth factor (FGF) as calculated under chapter 43.135 RCW (Fee_{FGF}).

(5) **Tier placement:**

(a) **Existing manufacturers:** Ecology will place existing manufacturers in the appropriate tier based on data obtained or received as described in subsection (2) of this section. If ecology has no data, ecology will place the manufacturer in Tier 4.

(b) **New manufacturers to Washington state:** Ecology will assign these manufacturers to Tier 6 for their initial program year. After the initial program year, ecology will treat

these manufacturers as an existing manufacturer (see (a) of this subsection).

(c) **Manufacturers whose CEPs are not directly sold in or into Washington state:** Ecology will assign these manufacturers to Tier 7.

(d) **Manufacturers who previously manufactured:** Ecology will assign these manufacturers to Tier 7.

(6) **Publication of tier assignment:**

(a) **Tiers for fees due January 1, 2007:** Ecology will publish the final tier schedule on ecology's web site by November 15, 2006, for fees due January 1, 2007. The tiers will be based on data available to ecology and received from manufacturers and retailers prior to November 9, 2006. When providing data to ecology, manufacturers must meet the requirements of subsection (7)(a) of this section prior to November 9, 2006.

(b) **Tiers for fees due January 1, 2008, and future years:** For administrative fees for 2008, and future years, ecology will publish a preliminary tier schedule for review and a final tier schedule.

(i) **Preliminary tier schedule:** Ecology will publish the preliminary tier schedule on ecology's web site by September 1 of each calendar year.

(A) This preliminary tier schedule will include the tiers and a list of manufacturers assigned to each tier.

(B) Ecology will also publish the estimated total percentage share of the market attributable to each tier and a list of the brand names for each manufacturer, which form the basis for the estimates used in the tier assignment.

(C) Manufacturers will have until October 1 to submit a request for tier reassignment if they believe they are assigned to the wrong tier. (See subsection (7)(b) of this section.)

(ii) **Final tier schedule:** Ecology will publish the agency's final tier schedule on ecology's web site by November 1 of each calendar year. This final tier schedule will reflect ecology's evaluation of all available data including but not limited to tier reassignment requests.

(7) **Tier reassignment requests:**

(a) **Requests for tier reassignment submitted for fees due January 1, 2007.** Manufacturers may request to be assigned to a different tier for fees due January 1, 2007.

(i) To submit a request for tier reassignment the manufacturer must, on or before November 9, 2006, do one of the following:

(A) Submit or update their on-line manufacturer registration form. The manufacturer must provide the number of units of CEPs, sold in the prior year, in or into Washington state;

(B) Send a written letter to ecology including the number of units of CEPs sold in the prior year in or into Washington state; or

(C) Submit a complete tier request form available on ecology's web site.

(ii) If CEP unit sales data is provided, ecology will exempt this data from public disclosure in accordance with RCW 42.56.270(13).

(iii) In addition to submitting information about CEP unit sales as described above, ecology may request that the manufacturer submit the CEP unit sales data in writing certified by a certified public accountant. Ecology may request this if ecology finds the data gives a different market share than the national data collected and/or the information changes the tier assignment distribution.

(b) **Requests for tier reassignment for fees due after January 1, 2007.** If submitting a tier reassignment request:

(i) **Existing manufacturers** must submit the request on or before October 1 prior to the next billing cycle and must follow the steps in (c) of this subsection.

(ii) **New manufacturers** to Washington state may not submit a tier reassignment request for their first program year. Requests for tier reassignment for future program years must follow the process for existing manufacturers.

(iii) **Manufacturers whose CEPs are not directly sold in or into Washington state** may request to be assigned to a different tier at any time and must follow the steps in (c) of this subsection.

(iv) **Manufacturers who previously manufactured** may request to be assigned to a different tier at any time and must follow the steps in (c) of this subsection.

(c) **Submitting tier reassignment requests:** To request tier reassignment, the manufacturer must do one of the following:

(i) Submit or update their on-line manufacturer registration form. The manufacturer must provide the number of units of CEPs, sold in the prior calendar year, in or into Washington state; or

(ii) Send a letter to ecology including the number of units of CEPs sold in the prior calendar year in or into Washington state.

(iii) If CEP unit sales data is provided, ecology will exempt this data from public disclosure in accordance with RCW 42.56.270(13).

(iv) In addition to submitting information about CEP unit sales as described above, ecology may request that the manufacturer submit the CEP unit sales data in writing including a basis for the alternative unit sales number and may request this information is certified by a certified public accountant. Ecology may request this if the CEP unit sales data results in a different market share than the national data collected and/or the information changes the tier assignment distribution.

[Statutory Authority: Chapters 70.95N, 70.105, and 70.105D RCW. 07-21-013 (Order 07-05), § 173-900-280, filed 10/5/07, effective 11/5/07.]

WAC 173-900-290 Successor duties. Any person acquiring a manufacturer, or brand, or who has acquired a manufacturer, or brand, shall have all responsibility for the acquired company's CEPs, including CEPs manufactured prior to July 1, 2006, unless that responsibility remains with another entity per the purchase agreement and the acquiring manufacturer provides ecology with a letter from the other entity accepting responsibility for the CEPs. Cobranding manufacturers may negotiate with retailers for responsibility for those products and must notify ecology of the results of their negotiations.

[Statutory Authority: Chapters 70.95N, 70.105, and 70.105D RCW. 07-21-013 (Order 07-05), § 173-900-290, filed 10/5/07, effective 11/5/07.]

WAC 173-900-300 Covered electronic product (CEP) recycling plans. (1) CEP recycling plans (plans) must provide a program for the collection, transportation, process-

ing, and recycling of CEPs from covered entities in Washington state.

(2) All plans intending to begin implementation on or before January 1, 2009, must be submitted to ecology no later than February 1, 2008.

(3) The authority or authorized party of a plan must:

(a) Provide collectors with information that can be shared with covered entities about how and where CEPs received into the program are recycled.

(b) Ensure that any CEP that is reused after being received by the processor is not included in any weight counts or used to satisfy an equivalent share.

(4) Collection, transportation, processing, and recycling systems and services for a plan:

(a) To implement the program described in the CEP recycling plan the authority or authorized party must only use the services of registered collectors, transporters, and processors that are in "in compliance" status.

(b) Processing services: The authority shall accept and use any processor that:

(i) Meets the requirements of this chapter; and

(ii) Meets any requirements described in the authority's operating plan or through contractual arrangements.

(c) Collection services: The authority of the standard plan must accept CEPs from registered collectors who meet the requirements of this chapter. The authority must compensate registered collectors for the reasonable costs associated with collection of CEPs. If a collector offers premium or curbside services, the compensation paid by the standard plan does not have to cover additional costs associated with those services.

(d) A plan must provide for the processing of large quantities of CEPs at no charge to small businesses, small governments, charities, and school districts.

[Statutory Authority: Chapters 70.95N, 70.105, and 70.105D RCW. 07-21-013 (Order 07-05), § 173-900-300, filed 10/5/07, effective 11/5/07. Statutory Authority: Chapter 70.95N RCW. 06-23-040 (Order 06-07), § 173-900-300, filed 11/7/06, effective 12/8/06.]

WAC 173-900-305 The standard plan. A manufacturer must participate in the standard plan administered by the authority unless the manufacturer has approval to participate in an ecology approved independent plan.

(1) The authority is responsible for collecting, transporting, processing, and recycling the sum of the equivalent shares of all manufacturers participating in the standard plan.

(2) The "authority" is the Washington materials management and financing authority and is authorized to submit the standard plan for the participating manufacturers.

[Statutory Authority: Chapters 70.95N, 70.105, and 70.105D RCW. 07-21-013 (Order 07-05), § 173-900-305, filed 10/5/07, effective 11/5/07.]

WAC 173-900-310 An independent plan. (1) A single manufacturer or a group of manufacturers may submit an independent plan to ecology for approval if:

(a) The manufacturers participating in the proposed plan represent at least five percent return share of CEPs; and

(b) No manufacturer participating in the proposed plan is a new entrant or a white box manufacturer.

(2) If an independent plan does not represent five percent return share for two consecutive program years, ecology will dissolve the independent plan (see WAC 173-900-360).

(3) **Individual independent plan:** A single manufacturer submitting an independent plan to ecology is responsible for collecting, transporting, processing, and recycling its equivalent share of CEPs.

(4) **Collective independent plan:** Manufacturers collectively submitting an independent plan are responsible for collecting, transporting, processing, and recycling the sum of the equivalent shares of all manufacturers participating in the collective independent plan.

(5) Individual or collective groups of manufacturers submitting an independent plan must designate an "authorized party" that is responsible for submitting the independent plan to ecology. A letter of certification from each of the manufacturers designating the authorized party must be submitted to ecology together with their independent plan.

(6) Prior to beginning implementation of an independent plan, the authorized party for that plan must receive plan approval from ecology.

[Statutory Authority: Chapters 70.95N, 70.105, and 70.105D RCW. 07-21-013 (Order 07-05), § 173-900-310, filed 10/5/07, effective 11/5/07.]

WAC 173-900-320 CEP recycling plan content. (1) All plans must contain all of the following sections and required information:

(a) Binding agreement;

(b) Standard plan participant assessment of charges or apportionment of costs (standard plan only);

(c) Letter of certification (independent plan only);

(d) Use of Washington businesses;

(e) Collection services;

(f) Collectors;

(g) Transporters;

(h) Direct processors;

(i) Direct processor audit reports;

(j) Design for recycling;

(k) Direct processor contract face sheet;

(l) Recordkeeping;

(m) Implementation timeline;

(n) Public outreach and marketing requirements; and

(o) Fair compensation.

(2) **A binding agreement:** Each plan must include a written statement binding the authority or authorized party to the use of the plan.

(a) The binding agreement must be signed by:

(i) The person(s) designated by the board of the standard plan to sign such agreements on behalf of the authority; or

(ii) The person(s) designated by the authorized party for independent plans to sign such agreements on behalf of the authorized party.

(b) The binding agreement must include:

(i) Contact information for the authority or authorized party, including name, address, and phone number;

(ii) A list of all manufacturers participating in the plan, manufacturer electronic product registration (EPR) numbers issued by ecology, and their contact information of the responsible official, including their location address, mailing address (if different), phone number and e-mail address;

(iii) A statement that the plan members will comply with the terms and conditions of their ecology approved plan; and

(iv) A statement that in the event the plan fails to meet the manufacturers' obligations under this chapter, the manufacturers retain responsibility and liability, including financial liability, for the collection, transportation, processing, and recycling of their equivalent share of CEPs as described in this chapter.

(3) **Standard plan participant assessment of charges or apportionment of costs:** For the standard plan only, the plan must include the proposal for assessing charges and apportioning costs for manufacturers participating in the standard plan. This must include a description of what information or data the authority used to determine the charge or cost. This section of the plan may be submitted separate from the rest of the plan (see WAC 173-900-325).

(4) **Letter of certification:** For independent plans only, the plan must include a sworn letter from each of the manufacturers participating in the independent plan designating the authorized party.

(5) **Use of Washington state businesses:** A description of how the authority or authorized party has sought the use of businesses within the state, including retailers, charities, processors, and collection and transportation services.

(6) **Collection services:** A description of how the plan will meet the collection service requirements in WAC 173-900-355. At a minimum the authority or authorized party for each plan must work with the local government entities responsible for preparing local solid waste management plans.

(7) **Collectors:** Information about collectors providing collection services in subsection (6) of this section must include:

(a) Collector names and collector electronic product registration (EPR) numbers issued by ecology;

(b) Collection sites: Location and contact number for collection sites;

(c) Days and hours of operation for each site; and

(d) Types of CEPs collected.

(8) **Transporters:** Information about transporters providing transportation services for CEPs and components for the plan including:

(a) Transporter names and transporter electronic product registration (EPR) numbers issued by ecology;

(b) Counties and cities where the transporter provides service for the plan; and

(c) Types of CEPs transported.

(9) **Direct processors:** Information about direct processors of CEPs participating in the plan including:

(a) Direct processor names;

(b) Physical location of processing facilities;

(c) Contact information and mailing addresses for the processing facilities;

(d) Types of CEPs processed at each facility;

(e) A description of the processes and methods that each processor will use to recycle CEPs; and

(f) A written statement from the direct processor ensuring that the direct processor will comply with the performance standards for direct processors in WAC 173-900-650.

(10) **Direct processor compliance audit reports:** For each direct processor used by the plan include a compliance audit report that meets the requirements in WAC 173-900-365.

(11) **Design for recycling:** A description of how the plan participants will communicate and work with processors used by the plan to promote and encourage the design of electronic products that are less toxic and contain components that are more recyclable.

(12) **Direct processor contract face sheet:**

(a) Copies of the contract face sheet and signature sheet for each direct processor used by the plan; and

(b) If not included on the face sheet and signature sheet, the date of the start of the contract and the date of the conclusion of the contract.

(13) **Recordkeeping:** Procedures for how the authority or authorized party will collect and maintain records to meet and demonstrate compliance with the requirements of this chapter. Recordkeeping must include a description of the accounting and reporting systems that will be employed to track progress toward the plan's equivalent share.

(14) **Implementation timeline:** A timeline describing start-up, implementation, and progress toward milestones with anticipated results.

(15) **Public outreach and marketing requirements:** A description of how the plan will meet the public outreach requirements in WAC 173-900-980.

(16) **Fair compensation:** Substantiate that fair compensation is paid to collectors, transporters and direct processors for all services provided to a plan and that payments to service providers will be made within thirty days net from date of shipment or other time frame defined in contractual arrangements.

[Statutory Authority: Chapters 70.95N, 70.105, and 70.105D RCW. 07-21-013 (Order 07-05), § 173-900-320, filed 10/5/07, effective 11/5/07.]

WAC 173-900-325 CEP recycling plan submittal, approval, and implementation.

Step 1: Format of the CEP recycling plan.

(1) All plans must use the "CEP recycling plan template" provided by ecology.

(2) The authority or authorized party must submit paper copies of their plan in a three-ring binder so that individual pages can be submitted and replaced when updates or revisions are required.

Step 2: Submit the CEP recycling plan.

(3) The authority or authorized party must submit one paper copy and one usable electronic copy of their plan to ecology.

(4) All plans intending to begin implementation on or before January 1, 2009, must be submitted to ecology no later than February 1, 2008.

(a) The one paper copy must be submitted by mail to one of the following addresses:

For U.S. Postal Service:

Department of Ecology
Electronic Product Recycling
Solid Waste and Financial Assistance Program
P.O. Box 47600
Olympia, WA 98504-7600

For Courier:

Department of Ecology
Electronic Product Recycling
Solid Waste and Financial Assistance Program
300 Desmond Drive
Lacey, WA 98503

(b) The electronic copy may be submitted by e-mail or other electronic format usable by ecology that allows electronic editing and commenting by ecology.

(5) The following section of a plan may be submitted to ecology for review and approval separate from the rest of the plan:

• Standard plan participant assessment of charges or apportionment of costs.

When submitting a section separate from the rest of the plan, the authority must follow the process described in this section.

Step 3: Approval process.

(6) Within ninety days after receipt of a complete plan, ecology will determine whether the plan complies with this chapter. Ecology will determine if the plan is:

(a) **Approved.** If approved, ecology will send a letter of approval to the authority or authorized party via certified mail. The approval letter will include an expiration date for the plan.

(b) **Disapproved.** If disapproved, ecology will send a letter of disapproval to the authority or authorized party via certified mail. The disapproval letter will provide ecology's reasons for not approving the plan.

(i) The authority or authorized party must submit a new or revised plan within sixty days after receipt of the disapproval letter.

(ii) Ecology then has an additional ninety days to review the new or revised plan.

(c) Ecology will approve plans for no more than five years. If an independent plan does not represent five percent return share for two consecutive program years, ecology will dissolve the independent plan (see WAC 173-900-360).

(7) **Approval criteria:** Ecology will consider the following when reviewing a plan for approval:

(a) The plan submittal dates were met;

(b) The plan meets the requirements in this chapter;

(c) The plan contains all of the information required in this chapter and provides descriptive information sufficient to allow ecology to determine that the implementation of the plan will be in compliance with this chapter;

(d) When reviewing a plan for service level, ecology may contact the local government or community identified in the plan; and

(e) The plan, when implemented, would meet or exceed required collection service levels (see WAC 173-900-355).

(8) Ecology may ask for additional information or clarification during the review of a plan.

(9) Ecology will post all plans on the agency web site.

(10) Proprietary information submitted to ecology under this chapter is exempt from public disclosure under RCW 42.56.270.

[Statutory Authority: Chapters 70.95N, 70.105, and 70.105D RCW. 07-21-013 (Order 07-05), § 173-900-325, filed 10/5/07, effective 11/5/07.]

WAC 173-900-330 Implementation of the CEP recycling plan. (1) The authority or authorized party of each plan approved for program year 2009 must implement the plan no later than January 1, 2009.

(2) All manufacturers registered as of January 1, 2009, must be participating in a fully operational, ecology approved, plan as of January 1, 2009.

(3) The authority or authorized party must notify ecology if any of the manufacturers listed as a participant in the plan are not meeting the requirements described in the ecology approved plan (see WAC 173-900-350).

(4) If the authority or authorized party of a plan, through implementation of the plan, fails to provide service in each county in Washington state or meet other plan requirements, the authority or authorized party must submit an updated plan to ecology within sixty days of failing to provide service.

[Statutory Authority: Chapters 70.95N, 70.105, and 70.105D RCW. 07-21-013 (Order 07-05), § 173-900-330, filed 10/5/07, effective 11/5/07.]

WAC 173-900-335 Updates and revisions to CEP recycling plans. (1) The authority or authorized party must update or revise the plan in the following situations:

(a) For five-year renewal;

(b) The plan has failed to provide services; and

(c) Plan updates or revisions are required.

(2) **Five-year renewal:** The authority or authorized party must:

(a) Review and update their plan every five years;

(b) Submit the plan to ecology at least one hundred twenty days prior to the expiration date on the plan approval letter.

(3) **Failure to provide service:**

(a) Failure to provide service means implementation of the plan fails to do any of the following:

(i) Provide service in each county in the state;

(ii) Provide service in each city or town with a population of ten thousand or greater; or

(iii) Meet other plan requirements.

(b) If the authority or authorized party of a plan, through implementation of the plan fails to provide services, the authority or authorized party must submit an updated plan to ecology within sixty days of failing to provide service.

(i) The updated plan must address how the program will be adjusted to meet the program geographic coverage and collection service requirements established in WAC 173-900-355.

(ii) When determining if the authority or authorized party fails to provide service, ecology will consider the collection services requirements in WAC 173-900-355 and the local government and community satisfaction reports if submitted under Part VIII, WAC 173-900-810.

(4) **Revisions or updates to the plan:** The authority or authorized party must submit a plan revision, including nonsignificant and significant plan revisions, to ecology within sixty days of any changes to the plan or receiving notice from ecology that an update is required.

(a) When submitting a plan revision, the authority or authorized party may submit only the sections or chapters related to the revision.

(b) **Nonsignificant revisions submitted but ecology approval is not required:** Nonsignificant revisions to CEP recycling plans are identified in Table 335 below. Ecology does not need to approve the nonsignificant revision prior to implementation.

(c) **Significant revisions submitted and ecology approval is required:** Significant revisions to CEP recycling plans are identified in Table 335 below. Ecology must approve the significant revisions prior to implementation.

Table 335
CEP Recycling Plan Revisions

Plan Content	Nonsignificant Revisions Submitted but no approval required to implement	Significant Revisions Submitted and approval is required to implement
Binding agreement	Changes to manufacturers participating in the plan or changes to contact information for manufacturers already included in the plan.	No revisions requiring approval.
Standard plan participant assessment of charges or apportionment of costs	No nonsignificant revisions.	Any changes to the assessment of charges or apportionment of costs.
Letter of certification	Changes to the contact information included for manufacturers already participating in the plan.	Addition or withdrawal of manufacturers participating in an independent plan.
Use of Washington businesses	Any changes to the use of Washington state businesses.	No changes requiring approval.
Collection services	Addition of collection site(s) or services without eliminating or changing existing services.	Changes to the level of services provided by the plan other than additional services.
Collectors	Any addition or change to registered collectors used by the plan.	No changes requiring approval.
Transporters	Adding, changing or removing registered transporters used by the plan.	No revisions requiring approval.
Direct processors	Any additions or changes to direct processors already used by an approved plan.	Use of a direct processor not already registered under this chapter.
Direct processor compliance audit report	Submission of copies of audit reports for any direct processor the plan uses after the plan was last approved or the plan's annual report was last submitted.	No revisions requiring approval.
Design for recycling	Any changes to the description of design for recycling included in the plan.	No revisions requiring approval.
Direct processor contract face sheet	Submission of copies of the contract face sheet as required in WAC 173-900-320(12) for any direct processor the plan uses after the plan was last approved or the plan's annual report was last submitted.	No revisions requiring approval.
Recordkeeping	Any changes to recordkeeping.	No revisions requiring approval.
Implementation timeline	No nonsignificant revisions.	Any changes to the implementation timeline.
Public outreach and marketing requirements	Additional public outreach and marketing efforts.	Any changes to the public outreach plan, other than additional public outreach and marketing.
Fair compensation	Any changes to fair compensation.	No changes requiring approval.

(5) **Approval process:** Within sixty days after receipt of a plan revision or update requiring approval, ecology will determine whether the plan complies with this chapter. Ecology will determine if the revision or update is:

(a) **Approved.** If approved, ecology will send a letter of approval to the authority or authorized party via certified

mail. The approval letter will include an expiration date for the plan.

(b) **Disapproved.** If disapproved, ecology will send a letter of disapproval to the authority or authorized party via certified mail. The disapproval letter will provide ecology's reasons for not approving the plan.

(i) The authority or authorized party must submit a plan revision or plan update within sixty days after receipt of the letter of disapproval.

(ii) Ecology then has an additional sixty days to review the revised revision or plan update.

(6) **Approval criteria:** Ecology will consider the following when reviewing a plan revision or update for approval:

(a) The updated plan submittal dates were met;

(b) The updated plan meets the requirements in this chapter;

(c) The updated plan contains all of the information required in WAC 173-900-320 and provides descriptive information sufficient to allow ecology to determine that the implementation of the plan will be in compliance with this chapter;

(d) The updated plan, when implemented, would meet or exceed required service levels; and

(e) Additional information or clarification needed by ecology during the review of a revised or updated plan to determine if the plan is compliant with these rules and chapter 70.95N RCW.

(7) Ecology will post all updated plans on the agency web site.

(8) Proprietary information submitted to ecology under this chapter is exempt from public disclosure under RCW 42.56.270.

[Statutory Authority: Chapters 70.95N, 70.105, and 70.105D RCW. 07-21-013 (Order 07-05), § 173-900-335, filed 10/5/07, effective 11/5/07.]

WAC 173-900-340 CEP recycling plan review fee. (1) Ecology shall review and approve plans. The authority or authorized party will pay ecology's plan review and approval costs.

(2) Plan review and approval includes ecology's costs for:

(a) Review;

(b) Approval; and

(c) Update and plan revision review and approval.

(3) Ecology shall base the plan review fee on actual costs as follows:

Plan Review Fee = Direct Costs + Indirect Costs

Where:

(a) **Direct costs** include ecology staff hourly time and other costs related to accomplishing the activities identified in subsection (2) of this section for each plan. Direct staff costs are the costs of hours worked, including salaries and benefits required by law to be paid to, or on behalf of, employees. Other direct costs are costs incurred as a direct result of ecology staff working on the plan including, for example, costs of: Travel related to plan review, printing and publishing of documents about the plan, and other work, contracted or otherwise, associated with plan review and approval, as necessary.

(b) **Indirect costs** are those general management and support costs of ecology. Ecology applies them using the agency's approved federal indirect cost rate.

(4) **Plan review fee invoicing and payment.** Invoices are generally sent about the last week of the month, for the previous month's activity. Payment is expected within thirty days after the date that ecology has issued the invoice. Ecology will grant final approval of plans and post approved plans on ecology's web site, when all outstanding invoices have been paid by the authority or authorized party for the activities delineated in subsection (2) of this section.

[Statutory Authority: Chapters 70.95N, 70.105, and 70.105D RCW. 07-21-013 (Order 07-05), § 173-900-340, filed 10/5/07, effective 11/5/07.]

WAC 173-900-345 Changing CEP recycling plan participation. (1) After January 1, 2008, no manufacturer may change CEP recycling plans for program year 2009.

(2) For program year 2010 and thereafter, registered CEP manufacturers may change participation in plans if the manufacturer meets the requirements in this section.

The following is the process for changing plan participation:

(3) The plan the manufacturer is joining must, by August 1 prior to the program year for which the change will take effect, submit:

(a) For an existing plan, an update or revision under WAC 173-900-335; or

(b) For a new independent plan, a plan that meets the requirements of WAC 173-900-310.

(4) Ecology will review the plan under the process described in WAC 173-900-325 or 173-900-335, as appropriate. If approved, ecology will send notice, via certified mail, to:

(a) The manufacturer requesting the change; and

(b) The authorized party(ies) and the authority affected by the change.

(5) If ecology does not approve the submitted plan or plan update by January 1 of the program year for which the change was submitted, the change cannot be implemented that program year. Ecology may still review the plan or plan update for approval for the following program year.

(6) Within fourteen days of receiving plan approval notice from ecology, the manufacturer must submit an updated registration form to ecology (see Part II, WAC 173-900-240).

(7) Within sixty days of receiving the notice, the plan the manufacturer left must submit a plan revision to ecology that meets the requirements in WAC 173-900-335.

(8) If an independent plan does not represent five percent return share after the manufacturer leaves the plan, the independent plan has until the end of the following program year to increase participation to represent the five percent return share. If the independent plan does not represent five percent return share at that time, the remaining members will then become members of the standard plan (see WAC 173-900-360).

[Statutory Authority: Chapters 70.95N, 70.105, and 70.105D RCW. 07-21-013 (Order 07-05), § 173-900-345, filed 10/5/07, effective 11/5/07.]

WAC 173-900-350 CEP recycling plan compliance. (1) **Financial obligations of manufacturers:**

(a) If a manufacturer has not met its financial obligations as determined by the authority, the authority must notify ecology within sixty days that the manufacturer is no longer participating in the standard plan.

(b) Manufacturers who do not meet their financial obligations in their plan are in plan violation. Ecology will follow the violations, warning and penalty procedures in Part III, WAC 173-900-255 and 173-900-260.

(2) **Noncompliance with plan responsibilities:**

(a) It is the responsibility of the authority or the authorized party to notify ecology within sixty days if a manufacturer, who is participating in their plan, is not complying with the manufacturer's responsibilities as described in the ecology approved plan.

(b) Manufacturers who do not comply with the responsibilities identified and agreed to in their plan are in plan violation. Ecology will follow the violations, warning and penalty procedures in Part III, WAC 173-900-255 and 173-900-260.

(3) **Notifications to ecology:**

(a) The notification to ecology about manufacturers in the plan must include:

(i) Name of manufacturer and EPR number issued by ecology;

(ii) Description of noncompliance; and

(iii) Date of notice submittal.

(b) The notification to ecology about direct processors in the plan must include:

(i) Name of direct processor and facility address;

(ii) Description of noncompliance; and

(iii) Date of notice submittal.

[Statutory Authority: Chapters 70.95N, 70.105, and 70.105D RCW. 07-21-013 (Order 07-05), § 173-900-350, filed 10/5/07, effective 11/5/07.]

WAC 173-900-355 Collection services. (1) Each plan must include a description of the method(s) for the reasonably convenient collection of all CEPs in rural and urban areas throughout the state at no cost to the covered entities according to the requirements in this section.

(2) **County:** The plan must provide collection services of CEPs in each county of the state.

(3) **Urban, city or towns with a population greater than ten thousand:** The plan must provide at least:

(a) One collection site; or

(b) Alternative collection service; or

(c) A combination of sites and alternative service(s).

Together, these sites and/or alternative services must provide at least one collection opportunity for all CEPs for every city or town in the state with a population of greater than ten thousand. A county's collection site may be the same as a collection site for a city or town in the county.

(4) **Rural areas:** For rural areas without commercial centers, or areas with widely dispersed population, a plan may provide collection at:

(a) The nearest commercial centers or solid waste sites;

(b) Collection events;

(c) Mail-back systems; or

(d) A combination of these options.

(5) **Collectors:** The plan must use only registered collectors that are listed as being in "in compliance" status on the "collector registration list."

(6) **Standard plan:** The standard plan must accept CEPs from any collector that is listed on the "collector registration list" as in "in compliance" status.

(7) **Limiting CEPs collected:** A plan may limit the number of CEPs that will be accepted.

(a) CEPs may be limited by:

(i) Number of a product type accepted per a covered entity per day; or

(ii) Number of product type accepted per delivery at a collection site; or

(iii) Number of a product type accepted by an alternative collection service.

(b) All covered entities may use a collection site as long as the covered entities adhere to any restrictions established in the approved plans.

(8) **Large quantities:** If a plan provides specific collection services or has restrictions for large quantities of CEPs, the plan must include a definition of "large quantity."

(9) **Providing joint services:** A plan may provide collection sites and services jointly with another plan or plans.

(10) **Collection sites:**

(a) Collection sites must be:

(i) Staffed during operating hours;

(ii) Open to the public at a frequency adequate to meet the needs of the area being served; and

(iii) Open regularly scheduled hours and on an ongoing basis.

(b) Collection sites may include:

(i) Electronics recyclers and repair shops;

(ii) Recyclers of other commodities;

(iii) Reuse organizations;

(iv) Charities;

(v) Retailers;

(vi) Government recycling sites; or

(vii) Other suitable locations.

(11) **Alternatives to collection sites:**

(a) A plan may provide alternative collection services to covered entities if those alternative collection services provide:

(i) Equal or better convenience than a collection site; and

(ii) Equal or increased collection of unwanted CEPs than would be achieved through a collection site.

(b) If a plan provides alternative services at a cost, the plan must also provide free collection service to covered entities in that county and for cities or towns with a population greater than ten thousand.

(c) These alternatives must be included in the plan as required under Part III, WAC 173-900-320.

(d) To use an alternative collection service instead of a collection site, a plan must provide ecology documentation that demonstrates the alternative service meets (a)(i) and (ii) of this subsection.

(e) Alternative services may include curbside collection services and premium services:

(i) Curbside collection services may be used to collect CEPs from households and other covered entities in small quantities. Those providing curbside collection services may charge an additional fee to the covered entity using the ser-

vice. The fee will cover the costs not paid by the standard or independent plans.

(ii) Premium services are services that are in addition to simple collection and are provided on-site.

(A) Examples are:

• At-location system upgrade or replacement services provided to covered entities; or

• At-home pickup services offered to households.

(B) Those providing premium services may charge an additional fee to the covered entity to cover the costs not paid by the standard or independent plans.

(12) **Alternatives for collecting large quantities of CEPs:**

(a) A plan may provide alternative collection services to small businesses, small governments, charities, and school districts that may have large quantities of CEPs that cannot be handled at collection sites or through curbside services.

(b) The plan must include a description of alternative collection services for large quantities of CEPs.

(13) **Approval criteria for collection services:** Ecology will determine approval of a plan's collection services based on the following criteria. Collection services are:

(a) Reasonably convenient;

(b) Available to all citizens of Washington state;

(c) Provided in both rural and urban areas;

(d) Provided in every county of the state; and

(e) Provided for each city or town with a population of greater than ten thousand.

[Statutory Authority: Chapters 70.95N, 70.105, and 70.105D RCW. 07-21-013 (Order 07-05), § 173-900-355, filed 10/5/07, effective 11/5/07.]

WAC 173-900-360 Dissolving an independent plan. (1) If an independent plan does not represent five percent return share for two consecutive program years, ecology will dissolve the independent plan.

(2) After August 1 but prior to the start of the next program year, ecology will dissolve any independent plan that does not meet the independent plan criteria in WAC 173-900-310.

(a) Ecology will send notice, via certified mail, informing all participants in the plan that they must join the standard plan and update their manufacturer registration form (see Part II, WAC 173-900-240).

(b) If a manufacturer does not submit their updated registration form within fourteen days of receiving the notice, it is a registration violation (see WAC 173-900-255) and ecology will follow the warning and penalty procedures in Part II, WAC 173-900-255, 173-900-260, and 173-900-270 of this chapter.

(3) If ecology determines that this change may significantly alter the program described in the standard plan, the authority must submit an updated plan to ecology (see WAC 173-900-335).

[Statutory Authority: Chapters 70.95N, 70.105, and 70.105D RCW. 07-21-013 (Order 07-05), § 173-900-360, filed 10/5/07, effective 11/5/07.]

WAC 173-900-365 Annual compliance audit reports for direct processors. (1) For each direct processor used by the plan, the authority or authorized party must provide an annual compliance audit report to ecology. These reports must demonstrate and certify that the direct processors meet either the minimum performance standards in WAC 173-900-650 or are in conformance with ecology's "*Environmentally Sound Management and Performance Standards for Direct Processors*."

(2) The authority or authorized party must submit the compliance audit report with their plan submittal (WAC 173-900-320), plan updates or revisions when there are additions or changes to direct processors used by the plan (WAC 173-900-335), and as part of the annual report (WAC 173-900-800).

Minimum performance standards.

(3) For demonstration of compliance with the minimum standards in WAC 173-900-650, the compliance audit must be conducted by an auditor not employed by the processor.

(4) Each annual compliance audit report submitted to ecology to demonstrate compliance with the minimum standards must include:

(a) A list of all the minimum performance standards;

(b) Documentation that the direct processor meets each of the performance standards, including a list of all applicable national, state, and local laws, rules, and ordinances, related to processing activities;

(c) Documentation of noncompliance with a performance standard: A direct processor may not comply with a specific minimum performance standard in WAC 173-900-650 when the national, state, or local laws or rules where the processor is located and a performance standard conflict. When a conflict exists, the audit report must include:

(i) Identification of which performance standard(s) is in conflict.

(ii) Document the conflict and the processor's compliance with the corresponding national, state, or local laws or rules that apply at that location;

(d) Documentation of the auditor's qualifications as described in subsection (5) of this section for the auditor signing the report;

(e) Certification from the auditor certifying whether or not the processor meets the standards in this section;

(f) Signature of the auditor certifying the accuracy of the report.

(5) This annual compliance audit must be completed by an auditor who through professional training, work experience and certification has appropriate knowledge to evaluate the environmental compliance of the processing facility.

Voluntary preferred performance standards.

(6) For demonstration of voluntary conformity with the "*Environmentally Sound Management and Performance Standards for Direct Processors*," the annual compliance audit report must meet the requirements in the environmentally sound management and performance standards document. The audit report required for the voluntary program for preferred performance standards may substitute for the audit report required in this section.

(7) Ecology will not list a direct processor in "preferred status" if:

(a) Ecology does not receive an audit report as required in "*Environmentally Sound Management and Performance Standards for Direct Processors*"; or

(b) The direct processor is not meeting all of the voluntary preferred performance standards.

(8) If a direct processor loses preferred status, and still is providing services to a CEP recycling plan, the direct processor must still be in compliance with the minimum performance standards in WAC 173-900-650. If the direct processor is not meeting the minimum standards, ecology will follow the warning, penalty, and violation procedures in WAC 173-900-370, 173-900-380, and 173-900-390.

Proprietary information.

(9) Proprietary information submitted to ecology under this chapter is exempt from public disclosure under RCW 42.56.270.

[Statutory Authority: Chapters 70.95N, 70.105, and 70.105D RCW. 07-21-013 (Order 07-05), § 173-900-365, filed 10/5/07, effective 11/5/07.]

WAC 173-900-370 Authority or authorized party violations. (1) The authority or authorized party is in violation of this chapter when there is:

(a) A plan violation; or

(b) An annual report violation; or

(c) A performance standards violation.

(2) **Plan violation:** As of January 1, 2009, it is a plan violation if the authority or authorized party:

(a) Does not implement the plan so that the plan meets the requirements in this chapter (see Part III of this chapter);

(b) Uses a collector, transporter, that is not in "in compliance" status; or

(c) Uses a direct processor for processing services that is not registered or has not updated their registration as required under this chapter.

(d) Does not implement return share sampling as required in WAC 173-900-900.

(3) **Annual report violation.**

As of March 1, 2010, it is an authority or authorized party violation if the plan's annual report is not submitted to ecology and approved under WAC 173-900-800.

(4) **Performance standards violation.**

As of January 1, 2009, it is an authority or authorized party "performance standards" violation if the plan uses a direct processor that does not meet the minimum performance standards in WAC 173-900-650.

[Statutory Authority: Chapters 70.95N, 70.105, and 70.105D RCW. 07-21-013 (Order 07-05), § 173-900-370, filed 10/5/07, effective 11/5/07.]

WAC 173-900-380 Authority and authorized party violation notice and penalties.

Table 380
Authority and Authorized Party Penalties

Type of Violation	Written Notice	First Penalty	Second and Subsequent Penalties
Plan Violation	Penalty Notice	Up to $5,000	Up to $10,000
Annual Report Violation	Warning Letter	Up to $1,000	Up to $2,000
Performance Standards Violation	Warning Letter	Up to $1,000	Up to $2,000

Penalty notice for plan violations.

(1) When ecology issues a penalty notice for a "plan violation," ecology will send the penalty notice to the authority or authorized party by certified mail, with a copy to each manufacturer listed as a plan participant. The penalty notice will include:

(a) A first penalty assessment as defined in Table 380;

(b) The requirements that need to be corrected; and

(c) A statement that the authority or authorized party must correct the violation within thirty days of receipt of the notice or the plan may no longer be approved.

(2) If after thirty days, the authority or authorized party fails to make the required corrections and implement the plan or submit a plan update as described in WAC 173-900-335, ecology:

(a) Must then assess a second penalty as defined in Table 380; and

(b) May inform the authority or authorized party that the plan is no longer approved; and

(c) Send a "manufacturer plan violation" warning letter to each manufacturer in the plan (see WAC 173-900-255).

(3) If the authority or authorized party does not correct the violation, ecology must assess subsequent penalties no more often than every thirty days.

Warning letter for annual report violations.

(4) When ecology issues a warning letter for an "annual report violation," ecology will send the letter to the authority or authorized party by certified mail, with a copy to each manufacturer listed in the plan. The warning letter will include:

(a) The requirements that need to be corrected; and

(b) A statement that the authority or authorized party must correct the violation within thirty days of receipt of the warning letter.

(5) If after thirty days, the authority or authorized party fails to make the required corrections, ecology must:

(a) Then assess a first penalty as defined in Table 380; and

(b) Send a "manufacturer plan violation" warning letter to each manufacturer in the plan (see WAC 173-900-255).

(6) If the authority or authorized party does not correct the violation, ecology must assess subsequent penalties no more often than every thirty days.

Warning letter for performance standards violations.

(7) When ecology issues a warning letter for a "performance standards violation," ecology will send the letter to the authority or authorized party by certified mail, with a copy to each manufacturer listed in the plan. The warning letter will include:

(a) The violations that need to be corrected; and

(b) A statement that the authority or authorized party must correct the violation within thirty days of receipt of the warning letter.

(8) If after thirty days, the authority or authorized party fails to make the required corrections, ecology must:

(a) Then assess a first penalty as defined in Table 380; and

(b) Send a "manufacturer plan violation" warning letter to each manufacturer in the plan (see WAC 173-900-255).

(9) If the authority or authorized party does not correct the violation, ecology must assess subsequent penalties no more often than every thirty days.

(10) Ecology will deposit all penalties collected under this section into the electronic products recycling account created under RCW 70.95N.130.

Appeals.

(11) Violations and penalties may be appealed to the pollution control hearings board, pursuant to chapter 43.21B RCW.

[Statutory Authority: Chapters 70.95N, 70.105, and 70.105D RCW. 07-21-013 (Order 07-05), § 173-900-380, filed 10/5/07, effective 11/5/07.]

WAC 173-900-390 Corrective actions for authority or authorized party.

Corrective actions for plan violations.

(1) The authority or authorized party must:

(a) Meet the plan requirements in Part III of this chapter;

(b) Ensure that all direct processors used by the plan are registered and have updated their registration as required in this chapter;

(c) Correct any other violations; and

(d) Pay or settle any penalties due to ecology.

Corrective actions for annual report violations.

(2) The authority or authorized party must:

(a) Submit their annual report to ecology or correct any deficiencies in the report and submit to ecology;

(b) Correct any other violations; and

(c) Pay or settle any penalties due to ecology.

Corrective actions for performance standards violations.

(3) The authority or authorized party must:

(a) Update information in the plan about direct processors by either:

(i) Discontinuing use of the direct processor and submitting a plan update. The plan update must remove the direct processor from the plan and explain how the plan will replace the processing services previously provided by that direct processor; or

(ii) Submitting a plan update including a new audit report for the direct processor documenting how the direct processor now meets all of the minimum performance standards in WAC 173-900-650.

(b) Correct any other violations; and

(c) Pay or settle any penalties due to ecology.

[Statutory Authority: Chapters 70.95N, 70.105, and 70.105D RCW. 07-21-013 (Order 07-05), § 173-900-390, filed 10/5/07, effective 11/5/07.]

WAC 173-900-400 What collectors need to know to collect CEPs for a CEP recycling plan. (1) To collect CEPs for a plan under this chapter the collector must:

(a) Submit an initial registration;

(b) Update the registration information if it changes;

(c) Renew registration annually;

(d) Meet the collector performance standards; and

(e) Be in "in compliance" status on the "collector registration list" on ecology's web site.

Table 400
Collector Status

Collector's Status	Can a collector collect CEPs for a plan?	Definition
In compliance	Yes	**"In compliance"** means the collector is registered and meets the collector performance standards in this chapter.
In violation	No	**"In violation"** means the collector is in violation of the requirements in this chapter.
Collector's name is not on the "collector registration list"	No	Collectors who collect CEPs or other electronic products and do not want to participate in this program do not need to register to continue doing business. If a collector is not registered, the collector must not receive payment for CEPs from a plan.

(2) **Collection services:**

(a) Plans are not required to compensate collectors for any products other than CEPs submitted for recycling by covered entities (households, charities, school districts, small businesses, and/or small governments located in Washington state).

(b) Plans are not required to compensate collectors for CEPs collected prior to January 1, 2009.

(3) Registration under this chapter is only for purposes of administering the electronic product recycling program and does not constitute endorsement by ecology of a particular registrant.

(4) The authority of the standard plan must accept CEPs from registered collectors in "in compliance" status.

(5) The authority must compensate registered collectors, in "in compliance" status for the reasonable costs associated with collection of CEPs submitted by a collector to the plan.

(6) The standard plan will not pay for additional costs associated with premium or curbside services, unless a prior written agreement has been made between the authority and the service provider.

[Statutory Authority: Chapters 70.95N, 70.105, and 70.105D RCW. 07-21-013 (Order 07-05), § 173-900-400, filed 10/5/07, effective 11/5/07.]

WAC 173-900-410 Initial registration as a CEP collector.

Step 1: Complete the collector registration form.

(1) Each collector must complete the on-line or paper registration form provided by ecology and must include all of the following:

(a) Name of individual responsible for implementing the collector requirements;

(b) Contact and location information;

(c) Business license information;

(d) Permit information, when applicable;

(e) Description of services provided; and

(f) Geographic areas where services are provided.

Step 2: Submit the collector registration form.

(2) The individual responsible for implementing the collector requirements must sign the form. Signing the form means the collector has provided accurate and complete information on the form and will comply with the collector performance standards in WAC 173-900-450.

(3) The collector must submit the form using one of the following options:

(a) On-line registration;

(b) Submitting the original paper version through:

U.S. Postal Service to:

Department of Ecology
Electronic Product Recycling
Solid Waste and Financial Assistance Program
P.O. Box 47600
Olympia, WA 98504-7600

Courier Service to:

Department of Ecology
Electronic Product Recycling
Solid Waste and Financial Assistance Program
300 Desmond Drive
Lacey, WA 98503

[Statutory Authority: Chapters 70.95N, 70.105, and 70.105D RCW. 07-21-013 (Order 07-05), § 173-900-410, filed 10/5/07, effective 11/5/07.]

WAC 173-900-420 How collectors know if their registration is approved.

Step 1: Ecology review of collector registration forms.

(1) After receiving a form, ecology will review the form to determine if the form is complete and accurate.

(2) If the form is not complete and accurate, ecology will contact the collector to:

(a) Tell the collector what information is missing or inaccurate; and

(b) Request a revised form.

(3) The collector must submit a revised form within thirty days from the day ecology contacted the collector.

Step 2: Approval or denial of collector registration forms.

(4) **Approval.**

(a) Approval means that ecology has determined the form is complete and accurate.

(b) If ecology approves the collector's registration, ecology will post the collector's name on the "collector registration list" and place the collector in "in compliance" status. The collector is allowed to collect CEPs for a plan.

(5) **Denial.**

(a) Denial means that ecology has determined the form is not complete and accurate and the collector did not revise information as requested.

(b) If ecology denies a collector's registration, ecology will remove the collector's name from the "collector registration list" if listed, and will notify the collector of the denial.

(c) The collector must not collect CEPs for a plan.

(d) For initial collector registration, if ecology denies a registration, the collector may resubmit an initial registration form.

[Statutory Authority: Chapters 70.95N, 70.105, and 70.105D RCW. 07-21-013 (Order 07-05), § 173-900-420, filed 10/5/07, effective 11/5/07.]

WAC 173-900-430 Annual renewal of collector registration. (1) A collector must submit its annual registration renewal form to ecology between June 1 and September 1 of each calendar year for the next program year.

(2) If a collector does not submit an annual registration renewal form, ecology will remove the collector from the "collector registration list."

(3) The collector must submit their annual registration form using one of the options below:

(a) Submit the on-line registration form;

(b) Submit a paper version of a form through:

U.S. Postal Service:

Department of Ecology
Electronic Product Recycling
Solid Waste and Financial Assistance Program
P.O. Box 47600
Olympia, WA 98504-7600

Courier Service:

Department of Ecology
Electronic Product Recycling
Solid Waste and Financial Assistance Program
300 Desmond Drive
Lacey, WA 98503

(4) Ecology will review collector registration forms submitted for annual registration under the process described in WAC 173-900-420.

(5) For annual registrations, if ecology denies the collector's registration form, ecology will remove the collector from the "collector registration list." In order to resume collecting CEPs for a plan, the collector must resubmit an initial registration (WAC 173-900-410) and receive registration approval from ecology.

[Statutory Authority: Chapters 70.95N, 70.105, and 70.105D RCW. 07-21-013 (Order 07-05), § 173-900-430, filed 10/5/07, effective 11/5/07.]

WAC 173-900-440 Updates to collector registration. (1) A registered collector must submit an updated registration form to ecology within fourteen days of any change to the information provided in its registration form.

(2) The collector must submit updates to its registration form by using one of the options below:

(a) Updating the collector's registration information using the on-line form;

(b) Submitting a paper version of the form with updated information through:

U.S. Postal Service to:

Department of Ecology
Electronic Product Recycling
Solid Waste and Financial Assistance Program
P.O. Box 47600
Olympia, WA 98504-7600

Courier Service to:

Department of Ecology
Electronic Product Recycling
Solid Waste and Financial Assistance Program
300 Desmond Drive
Lacey, WA 98503

(3) Ecology will review collector updated registration forms under the process described in WAC 173-900-420.

[Statutory Authority: Chapters 70.95N, 70.105, and 70.105D RCW. 07-21-013 (Order 07-05), § 173-900-440, filed 10/5/07, effective 11/5/07.]

WAC 173-900-450 Performance standards for collectors. (1) CEPs collected for a plan must be collected from covered entities free of charge except for the following services:

(a) Premium services as described in an approved plan to cover the costs not paid by the standard or independent plans;

(b) Curbside collection services to cover the costs not paid by the standard or independent plans; or

(c) Collection of large quantities of CEPs from small businesses, small governments, charities, and school districts as defined in WAC 173-900-355(7).

(2) A registered collector must not process CEPs, or components, for purposes of recycling or disposal, unless they also meet the direct processor performance standards and are a registered direct processor under this chapter.

(3) In addition to the requirements in this chapter, all registered collectors must comply with all applicable environmental laws, rules, and local ordinances.

(4) When providing collection services for a plan, the registered collector must:

(a) Staff the site during operating hours.

(b) Notify the authority and/or authorized party of any changes in hours and days of operation and types of CEPs accepted if the collection services provided are identified in an ecology approved plan.

(c) Cooperate with CEP sampling efforts conducted by CEP recycling programs approved under this chapter.

(d) Provide enclosed storage areas with impervious floors so that the CEPs and components collected are protected from the weather.

(e) Collectors must post, in a readily visible location, information that can be shared with covered entities about how and where CEPs received into the program are recycled. Recycling information is provided by the plan(s) for which the collector is providing services.

(f) If a registered collector also gleans CEPs or components for reuse, they must notify the covered entity.

(5) A registered collector must allow access to ecology or their authorized third party representative for purposes of conducting sampling to determine return share.

(6) A registered collector must allow access to ecology for inspections to determine compliance with the requirements in this chapter.

(7) No entity shall claim to be collecting CEPs for a plan unless the entity is registered as a collector and submits all collected CEPs to a plan. Except fully functional CEPs and components may be gleaned for reuse. Collectors shall not include gleaned CEPs and components for reuse in the weight totals for plan compensation.

(8) A registered collector must notify the authority and authorized parties for all plans that the collector submits CEPs if the collector's days/hours of operations change or the collector changes the CEPs collected.

[Statutory Authority: Chapters 70.95N, 70.105, and 70.105D RCW. 07-21-013 (Order 07-05), § 173-900-450, filed 10/5/07, effective 11/5/07.]

WAC 173-900-460 Ecology determination of collector compliance. (1) Beginning January 1, 2009, ecology may inspect any collector used by a plan for compliance with this chapter.

(2) If ecology determines a violation has occurred, ecology will document each violation and follow the warning, violation, and penalties procedures in Part IV, WAC 173-900-470, 173-900-480, and 173-900-490.

[Statutory Authority: Chapters 70.95N, 70.105, and 70.105D RCW. 07-21-013 (Order 07-05), § 173-900-460, filed 10/5/07, effective 11/5/07.]

WAC 173-900-470 Collector violations. Collector violations are described in Table 470.

Table 470
Collector Violations

Starting	If	Then	and Ecology Will
September 1, 2007	A collector has collected CEPs for a plan and is not registered under this chapter.	It is a **collector registration violation.**	Follow the warning, violation, and penalties procedures in Part IV, WAC 173-900-480 and 173-900-490.
Effective date of this chapter	A collector does not update its registration information within fourteen days of a change.	It is a **collector registration violation.**	Follow the warning, violation, and penalties procedures in Part IV, WAC 173-900-480 and 173-900-490.
January 1, 2009	A collector collecting CEPs for a plan is out of compliance with the collector standards in WAC 173-900-450.	It is a **collector standards violation.**	Follow the warning, violation, and penalties procedures in Part IV, WAC 173-900-480 and 173-900-490.

[Statutory Authority: Chapters 70.95N, 70.105, and 70.105D RCW. 07-21-013 (Order 07-05), § 173-900-470, filed 10/5/07, effective 11/5/07.]

WAC 173-900-480 Warnings and penalties for collector violations.

Table 480
Collector Warning and Penalties

Type of Violation	Written Warning	First Penalty	Second and Subsequent Penalties
Collector Registration Violation	Warning Letter	Up to $1,000	Up to $2,000
Collector Standards Violation	Warning Letter	Up to $1,000	Up to $2,000

Warning letter:

(1) When ecology issues a written warning letter via certified mail to a collector, for any collector violation the warning will include a copy of the requirements to let the collector know what must be done to be in compliance.

(2) Ecology will send a copy of the warning letter to the authority and authorized party of each plan.

Penalties:

(3) **First penalties:** If the collector does not meet the compliance requirements in the warning letter within thirty days of receipt of the warning, ecology will assess a first penalty, as defined in Table 480 above and ecology will:

(a) Either change the collector's status to "in violation" or add the collector to the "collector registration list" and put them in "in violation" status; and

(b) Send a penalty notice for a "plan violation" to the authority and authorized party of each plan that uses the collector (see WAC 173-900-380).

(4) **Second and subsequent penalties:** Ecology will issue second and subsequent penalties as defined in Table 480 no more often than every thirty days for the same violation.

(5) Ecology will deposit all penalties collected under this section into the electronic products recycling account created under RCW 70.95N.130.

Appeals:

(6) Violations and penalties may be appealed to the pollution control hearings board, pursuant to chapter 43.21B RCW.

[Statutory Authority: Chapters 70.95N, 70.105, and 70.105D RCW. 07-21-013 (Order 07-05), § 173-900-480, filed 10/5/07, effective 11/5/07.]

WAC 173-900-490 Corrective action for collector violations. For ecology to change a collector from the "in violation" status to "in compliance" status on the "collector registration list," the collector must:

(1) Provide evidence that the violation has been corrected; and

(2) Pay or settle any penalties to ecology.

[Statutory Authority: Chapters 70.95N, 70.105, and 70.105D RCW. 07-21-013 (Order 07-05), § 173-900-490, filed 10/5/07, effective 11/5/07.]

WAC 173-900-500 What transporters need to know to collect CEPs for a CEP recycling plan. (1) To transport CEPs for a plan under this chapter a transporter must:

(a) Submit an initial registration;

(b) Update the registration information if it changes;

(c) Renew registration annually;

(d) Meet the transporter performance standards in WAC 173-900-550; and

(e) Be in "in compliance" status on the "transporter registration list" on ecology's web site.

Table 500
Transporter Status

Transporter's Status	Can a transporter transport CEPs for a plan?	Definition
In compliance	Yes	**"In compliance"** means the transporter is registered and meets the transporter performance standards in this chapter.

Table 500
Transporter Status

Transporter's Status	Can a transporter transport CEPs for a plan?	Definition
In violation	No	**"In violation"** means the transporter is in violation of the requirements in this chapter.
Transporter's name is not on the "transporter registration list"	No	Transporters who transport CEPs or other electronic products and do not want to participate in this program do not need to register to continue doing business. If a transporter is not registered, the transporter must not receive payment for CEPs from a plan.

(2) Registration under this chapter is only for purposes of administering the electronic product recycling program and does not constitute endorsement by ecology of a particular registrant.

[Statutory Authority: Chapters 70.95N, 70.105, and 70.105D RCW. 07-21-013 (Order 07-05), § 173-900-500, filed 10/5/07, effective 11/5/07.]

WAC 173-900-510 Initial registration as a CEP transporter.

Step 1: Complete the transporter registration form.

(1) Each transporter must use the form provided by ecology and must include all of the following:

(a) Contact and location information;

(b) Business license information;

(c) Permit information;

(d) Description of services provided; and

(e) Geographic areas where services are provided.

Step 2: Submit the registration form.

(2) The individual responsible for implementing the transporter requirements must sign the form. Signing the form means the transporter has provided accurate and complete information on the form and will comply with the transporter standards in WAC 173-900-550.

(3) The transporter must submit the form using one of the options below:

(a) On-line registration;

(b) The original paper version through:

U.S. Postal Service:

Department of Ecology
Electronic Product Recycling
Solid Waste and Financial Assistance Program
P.O. Box 47600
Olympia, WA 98504-7600

Courier Service:

Department of Ecology
Electronic Product Recycling
Solid Waste and Financial Assistance Program
300 Desmond Drive
Lacey, WA 98503

[Statutory Authority: Chapters 70.95N, 70.105, and 70.105D RCW. 07-21-013 (Order 07-05), § 173-900-510, filed 10/5/07, effective 11/5/07.]

WAC 173-900-520 How transporters know if their registration is approved.

Step 1: Ecology review of transporter registration form.

(1) After receiving a form, ecology will review the form to determine if the form is complete and accurate.

(2) If the form is not complete and accurate, ecology will contact the transporters to:

(a) Tell the transporter what information is missing or inaccurate; and

(b) Request a revised form.

(3) The transporter must submit a revised form within thirty days from the day ecology contacted the transporter.

Step 2: Approval or denial of transporter registration forms.

(4) **Approval.**

(a) Approval means that ecology has determined the form is complete and accurate.

(b) If ecology approves the transporter's registration, ecology will post the transporter's name on the "transporter registration list" and place the transporter in "in compliance" status. The transporter is allowed to transport CEPs for a plan.

(5) **Denial.**

(a) Denial means that ecology has determined the form is not complete and accurate and the transporter did not revise information as requested.

(b) If ecology denies a transporter's registration, ecology will remove the transporter's name from the "transporter registration list" if listed, and will notify the transporter of the denial.

(c) The transporter must not transport CEPs for a plan.

(d) For initial transporter registration, if ecology denies a registration, the transporter may resubmit an initial registration form.

[Statutory Authority: Chapters 70.95N, 70.105, and 70.105D RCW. 07-21-013 (Order 07-05), § 173-900-520, filed 10/5/07, effective 11/5/07.]

WAC 173-900-530 Annual renewal of transporter registration. (1) A transporter must submit its annual renewal registration form to ecology between June 1 and September 1 of each calendar year for the next program year.

(2) If a transporter does not submit a renewal registration form, ecology will remove the transporter from the "transporter registration list."

(3) The transporter must submit its annual registration form using one of the options below:

(a) Submit the on-line registration form;

(b) Submit a paper version through:

U.S. Postal Service to:

Department of Ecology
Electronic Product Recycling
Solid Waste and Financial Assistance Program
P.O. Box 47600
Olympia, WA 98504-7600

Courier Service to:

Department of Ecology
Electronic Product Recycling
Solid Waste and Financial Assistance Program
300 Desmond Drive
Lacey, WA 98503

(4) Ecology will review transporter registration forms submitted for annual registration under the process described in WAC 173-900-520.

(5) For annual registrations, if ecology denies the transporter's registration form, ecology will remove the transporter from the "transporter registration list." In order to resume transporting CEPs for a plan, the transporter must resubmit an initial registration (WAC 173-900-510) and receive registration approval from ecology.

[Statutory Authority: Chapters 70.95N, 70.105, and 70.105D RCW. 07-21-013 (Order 07-05), § 173-900-530, filed 10/5/07, effective 11/5/07.]

WAC 173-900-540 Updates to transporter registration. (1) A registered transporter must submit an updated registration form to ecology within fourteen days of a change to the information provided in a registration form.

(2) The transporter must submit updates to its registration form by using one of the options below:

(a) Updating the transporter's registration information using the on-line form;

(b) Submitting a paper version of the form with updated information through:

U.S. Postal Service to:

Department of Ecology
Electronic Product Recycling
Solid Waste and Financial Assistance Program
P.O. Box 47600
Olympia, WA 98504-7600

Courier Service to:

Department of Ecology
Electronic Product Recycling
Solid Waste and Financial Assistance Program
300 Desmond Drive
Lacey, WA 98503

(3) Ecology will review transporter updated registration forms under the process described in WAC 173-900-520.

[Statutory Authority: Chapters 70.95N, 70.105, and 70.105D RCW. 07-21-013 (Order 07-05), § 173-900-540, filed 10/5/07, effective 11/5/07.]

WAC 173-900-550 Performance standards for transporters. (1) All registered transporters must comply with all applicable laws, rules, and local ordinances.

(2) A registered transporter must allow access to ecology or their authorized third party representative for purposes of conducting sampling to determine return share.

(3) A registered transporter must allow access to ecology for inspections to determine compliance with the requirements in this chapter.

(4) Transporters must deliver CEPs for a plan to registered direct processors.

[Statutory Authority: Chapters 70.95N, 70.105, and 70.105D RCW. 07-21-013 (Order 07-05), § 173-900-550, filed 10/5/07, effective 11/5/07.]

WAC 173-900-560 Ecology determination of transporter compliance. (1) Beginning January 1, 2009, ecology may inspect any transporter used by a plan for compliance with this chapter.

(2) If ecology determines a violation occurred, ecology will document each violation and follow the warning, violation, and penalties procedures in Part V, WAC 173-900-570, 173-900-580, and 173-900-590.

[Statutory Authority: Chapters 70.95N, 70.105, and 70.105D RCW. 07-21-013 (Order 07-05), § 173-900-560, filed 10/5/07, effective 11/5/07.]

WAC 173-900-570 Transporter violations. Transporter violations are described in Table 570.

Table 570
Transporter Violations

Starting	If	Then	and Ecology Will
September 1, 2007	A transporter has transported CEPs for a plan and is not registered under this chapter.	It is a **transporter registration violation.**	Follow the warning, violation, and penalties procedures in Part V, WAC 173-900-580 and 173-900-590.
Effective date of this chapter	A transporter does not update its registration information within fourteen days of a change.	It is a **transporter registration violation.**	Follow the warning, violation, and penalties procedures in Part V, WAC 173-900-580 and 173-900-590.

Starting	If	Then	and Ecology Will
January 1, 2009	A transporter transporting CEPs for a plan is out of compliance with the transporter standards in WAC 173-900-550.	It is a **transporter standards violation.**	Follow the warning, violation, and penalties procedures in Part V, WAC 173-900-580 and 173-900-590.

[Statutory Authority: Chapters 70.95N, 70.105, and 70.105D RCW. 07-21-013 (Order 07-05), § 173-900-570, filed 10/5/07, effective 11/5/07.]

WAC 173-900-580 Warnings and penalties for transporters.

Table 580
Transporter Warning and Penalties

Type of Violation	Written Warning	First Penalty	Second and Subsequent Penalties
Transporter Registration Violation	Warning Letter	Up to $1,000	Up to $2,000
Transporter Standards Violation	Warning Letter	Up to $1,000	Up to $2,000

Warning letter:

(1) When ecology issues a written warning letter via certified mail to a transporter, for any transporter violation the warning will include a copy of the requirements to let the transporter know what must be done to be in compliance.

(2) Ecology will send a copy of the warning letter to the authority and authorized party of each plan.

Penalties:

(3) **First penalties:** If the transporter does not meet the compliance requirements in the warning letter within thirty days of receipt of the warning, ecology will assess a first penalty, as defined in Table 580 above and ecology will:

(a) Either change the transporter's status to "in violation" or add the transporter to the "transporter registration list" and put them in "in violation" status; and

(b) Send a penalty notice for a "plan violation" to the authority and authorized party of each plan that uses the transporter (see WAC 173-900-380).

(4) **Second and subsequent penalties:** Ecology will issue second and subsequent penalties as defined in Table 580 no more often than every thirty days for the same violation.

(5) Ecology will deposit all penalties collected under this section into the electronic products recycling account created under RCW 70.95N.130.

Appeals:

(6) Violations and penalties may be appealed to the pollution control hearings board, pursuant to chapter 43.21B RCW.

[Statutory Authority: Chapters 70.95N, 70.105, and 70.105D RCW. 07-21-013 (Order 07-05), § 173-900-580, filed 10/5/07, effective 11/5/07.]

WAC 173-900-590 Corrective actions for transporter violations. For ecology to change a transporter from the "in violation" status to "in compliance" status on the "transporter registration list," the transporter must:

(1) Provide evidence that the violation has been corrected; and

(2) Pay or settle any penalties to ecology.

[Statutory Authority: Chapters 70.95N, 70.105, and 70.105D RCW. 07-21-013 (Order 07-05), § 173-900-590, filed 10/5/07, effective 11/5/07.]

WAC 173-900-600 What direct processors need to know to process CEPs for a CEP recycling plan. (1) To be a direct processor and process CEPs for a plan under this chapter the direct processor must:

(a) Submit an initial registration form;

(b) Update registration information if it changes;

(c) Renew registration annually;

(d) Be identified as a direct processor in an ecology approved plan;

(e) Be in "in compliance" status on the "direct processor registration list" on ecology's web site; and

(f) Meet the minimum or preferred performance standards, throughout the program year, assigned to the direct processor on the "direct processor registration list."

(2) At least thirty days prior to receiving CEPs for processing, the direct processor must submit a registration form to ecology and may not begin processing until ecology places the direct processor in "in compliance" status on the "direct processor registration list" on ecology's web site.

Table 600
Direct Processor Status

Direct Processor's Status	Can a direct processor process CEPs for a plan?	Definition
In compliance	Yes	**"In compliance"** means the direct processor is registered and complies with the requirements in WAC 173-900-650.
In violation	No	**"In violation"** means the direct processor is in violation of the requirements in this chapter and the plan cannot use the services of the direct processor until compliance is achieved.

Table 600
Direct Processor Status

Direct Processor's Status	Can a direct processor process CEPs for a plan?	Definition
Processor's name is not on the "processor registration list"	No	If the direct processor's name is not on the "direct processor registration list," that processor must not provide processing services to a plan or receive compensation from a plan for processing services.

(3) The authority shall contract with any processor that meets the direct processor performance standards in this chapter and meets any requirements described in the authority's operating plan or through contractual arrangements with the authority.

(a) Processors used by the standard plan shall:

(i) Provide documentation to the authority at least annually regarding how they are meeting the performance standards in WAC 173-900-650, including enough detail to allow the standard plan to meet the plan's annual reporting requirements (see annual reporting in WAC 173-900-800); and

(ii) Submit to annual compliance audits meeting the audit requirements in WAC 173-900-365 conducted by or for the authority.

(b) The authority shall compensate such processors for the reasonable costs, as determined by the authority, associated with processing unwanted electronic products.

(c) Such processors must demonstrate that the unwanted electronic products have been received from registered collectors or transporters and provide other documentation, as may be required by the authority.

(4) Registration under this chapter is only for purposes of administering the electronic product recycling program, and does not constitute endorsement by ecology of a particular registrant.

[Statutory Authority: Chapters 70.95N, 70.105, and 70.105D RCW. 07-21-013 (Order 07-05), § 173-900-600, filed 10/5/07, effective 11/5/07. Statutory Authority: Chapter 70.95N RCW. 06-23-040 (Order 06-07), § 173-900-600, filed 11/7/06, effective 12/8/06.]

WAC 173-900-610 Initial registration for direct processors.

Table 610
Direct Processor Registration Types

Type of Registration	Definition	Due Date
Initial registration	Direct processor is not currently registered with ecology under this chapter.	Submit registration form to ecology at any time.

Table 610
Direct Processor Registration Types

Type of Registration	Definition	Due Date
Annual renewal	Direct processor is currently registered with ecology under this chapter.	Submit renewal form to ecology between June 1 and September 1 of each year.

At least thirty days prior to receiving CEPs for processing, the direct processor must submit a registration form to ecology and may not begin processing until ecology places the direct processor in "in compliance" status on the "direct processor registration list" on ecology's web site.

Step 1: Complete a direct processor registration form.

(1) Each direct processor must complete a registration form which includes all the following:

(a) Contact and location information;

(b) Business license information;

(c) Documentation of any necessary operating permits issued as required by local, state, or national authorities;

(d) Description of services provided;

(e) Geographic areas from which electronic products are accepted; and

(f) The names of plans the direct processor is contracted to provide processing services to meet the requirements of this chapter.

Step 2: Submit the direct processor registration form.

(2) The person responsible for implementing the direct processor requirements under this chapter must sign the registration form. The signature certifies the company has provided accurate and complete information on the form and is complying with all applicable state, local, and national laws and regulations.

(3) The person must submit the form to ecology. When mailing in an original paper copy, the person must use one of the addresses below:

U.S. Postal Service:

Department of Ecology
Electronic Product Recycling
Solid Waste and Financial Assistance Program
P.O. Box 47600
Olympia, WA 98504-7600

Courier Service:

Department of Ecology
Electronic Product Recycling
Solid Waste and Financial Assistance Program
300 Desmond Drive
Lacey, WA 98503

[Statutory Authority: Chapters 70.95N, 70.105, and 70.105D RCW. 07-21-013 (Order 07-05), § 173-900-610, filed 10/5/07, effective 11/5/07. Statutory Authority: Chapter 70.95N RCW. 06-23-040 (Order 06-07), § 173-900-610, filed 11/7/06, effective 12/8/06.]

WAC 173-900-620 How direct processors know if their registration is approved.

Step 1: Ecology review of direct processor registration forms.

(1) After receiving a registration form, ecology will review the form to determine if the form is complete and accurate.

(2) If the form is not complete and accurate, ecology will contact the direct processor to:

(a) Tell the direct processor what information is missing or inaccurate; and

(b) Request a revised form.

(3) The direct processor must submit the revised form within thirty days from the day ecology contacted the direct processor.

Step 2: Approval or denial of direct processor registration.

(4) **Approval.**

(a) Approval means that ecology has determined the form is complete and accurate.

(b) If ecology approves the direct processor's registration, ecology will:

(i) Place the direct processor's name on the "direct processor registration list"; and

(ii) Place the direct processor in "in compliance" status.

(c) The direct processor may process CEPs for a plan.

(5) **Denial.**

(a) Denial means that ecology has determined the form is not complete and accurate and the direct processor did not revise information as requested.

(b) If ecology denies a direct processor's registration, ecology will notify the direct processor of the denial and either:

(i) Remove the direct processor's name from the "direct processor registration list"; or

(ii) For renewals and updates, change the direct processor's status to "in violation" on the "direct processor registration list."

(iii) For initial direct processor registration, if ecology denies a registration, the direct processor may resubmit an initial registration form.

[Statutory Authority: Chapters 70.95N, 70.105, and 70.105D RCW. 07-21-013 (Order 07-05), § 173-900-620, filed 10/5/07, effective 11/5/07. Statutory Authority: Chapter 70.95N RCW. 06-23-040 (Order 06-07), § 173-900-620, filed 11/7/06, effective 12/8/06.]

WAC 173-900-630 Annual renewal of direct processor registration. (1) Direct processors must submit their annual renewal registration form to ecology between June 1 and September 1 of each calendar year for the next program year.

(2) If an annual renewal registration form is not received during this time period, and subsequently approved by ecology, the direct processor will be removed from the "direct processor registration list" and must not process CEPs for a plan until a registration form is submitted and approved.

(3) When mailing in the original paper copy, the direct processor must use one of the addresses below:

U.S. Postal Service:

Department of Ecology
Electronic Product Recycling
Solid Waste and Financial Assistance Program
P.O. Box 47600
Olympia, WA 98504-7600

Courier Service:

Department of Ecology
Electronic Product Recycling
Solid Waste and Financial Assistance Program
300 Desmond Drive
Lacey, WA 98503

(4) Ecology will review direct processor registration forms submitted for annual renewal under the process described in WAC 173-900-620.

(5) For annual registrations, if ecology denies the direct processor's registration form, ecology will remove the direct processor from the "direct processor registration list." In order to resume processing services for a plan, the processor must resubmit an initial registration (WAC 173-900-610) and receive registration approval from ecology.

[Statutory Authority: Chapters 70.95N, 70.105, and 70.105D RCW. 07-21-013 (Order 07-05), § 173-900-630, filed 10/5/07, effective 11/5/07. Statutory Authority: Chapter 70.95N RCW. 06-23-040 (Order 06-07), § 173-900-630, filed 11/7/06, effective 12/8/06.]

WAC 173-900-640 Updates to direct processor registration. (1) A direct processor must submit an updated registration form to ecology thirty days prior to providing new, additional, or reducing processing services for a plan.

(2) When mailing in the original paper copy, the direct processor must use one of the addresses below:

U.S. Postal Service:

Department of Ecology
Electronic Product Recycling
Solid Waste and Financial Assistance Program
P.O. Box 47600
Olympia, WA 98504-7600

Courier Service:

Department of Ecology
Electronic Product Recycling
Solid Waste and Financial Assistance Program
300 Desmond Drive
Lacey, WA 98503

(3) Ecology will review direct processor updated registration forms under the process described in WAC 173-900-620.

[Statutory Authority: Chapters 70.95N, 70.105, and 70.105D RCW. 07-21-013 (Order 07-05), § 173-900-640, filed 10/5/07, effective 11/5/07.]

WAC 173-900-650 Performance standards for direct processors. (1) This section includes performance standards for environmentally sound handling and management of CEPs by direct processors to protect human health and the environment. There are two levels of performance standards:

(a) Minimum standards (required);

(b) Preferred standards (voluntary program).

(2) Ecology will list all registered direct processors on the agency web site and indicate which level of performance standards, minimum or preferred, the processor meets.

(3) Each registered direct processor used by a plan must meet the minimum performance levels in this section to provide processing services for a plan.

Minimum performance standards for direct processors.

(4) Minimum performance standards for direct processors include the following requirements:

Responsible management priorities.

Legal requirements.

Environmental, health, and safety, management systems (EHSMS).

Recordkeeping.

On-site requirements.

Materials of concern.

Recycling, reuse, and disposal.

Transport.

Prison labor.

Facility access.

Notification of penalties and violations.

Noncompliance with minimum performance standards.

(5) **Responsible management priorities.**

A direct processor must periodically evaluate its management strategies to assure it takes advantage of new more effective technologies and is otherwise continuously improving its practices and processes.

(6) **Legal requirements.**

(a) A direct processor must comply with all federal, state, and local requirements and, if it exports, those of all transit and recipient countries that are applicable to the operations and transactions in which it engages related to the processing of CEPs, components, parts, and materials and disposal of residuals. These include but are not limited to applicable legal requirements relating to:

(i) Waste and recyclables processing, storage, handling, and shipping; and

(ii) Air emissions and waste water discharge, including storm water discharges; and

(iii) Worker health and safety; and

(iv) Transboundary movement of electronic equipment, components, materials, waste, or scrap for reuse, recycling, or disposal.

(b) Upon request by a covered entity, a direct processor must make available information to that covered entity about any financial penalties, regulatory orders, or violations the direct processor received in the previous three years. If the direct processor receives subsequent penalties or regulatory orders, the direct processor must make that information available within sixty days after any subsequent penalties or regulatory orders are issued.

(7) **Environmental, health, and safety management systems (EHSMS).**

(a) A direct processor must develop, document, fully implement, and update at least annually a written EHSMS that includes all of the following:

(i) Written goals and procedures that require the direct processor to systematically manage its environmental, health, and safety matters.

(ii) Utilization of a "plan, do, check, act" model that identifies environmental aspects, implements operational controls, and provides corrective action procedures. Elements of this model must include:

(A) **Plan**

(I) Identification of environmental impacts, and legal and regulatory requirements;

(II) Establishment of environmental goals, objectives and targets;

(III) Plan actions that work toward achieving identified goals;

(IV) Plan for emergency preparedness and response; and

(V) Commitment of management support.

(B) **Do**

(I) Establish roles and responsibilities for the EHSMS and provide adequate resources;

(II) Assure that staff are trained and capable of carrying out responsibilities; and

(III) Establish a process for communicating about the EHSMS within the business.

(C) **Check**

(I) Monitor key activities and track performance;

(II) Identify and correct problems and prevent recurrence; and

(III) Provide a measurement system that quantifies the application of the model.

(D) **Act**

(I) Conduct annual progress reviews;

(II) Act to make necessary changes to the EHSMS; and

(III) Create and implement an action plan for continual improvement.

(iii) A worker safety and health management plan that conforms to a consensus-based standard covering worker health and safety such as ANSI Z10 or to a similarly rigorous in-house standard.

(iv) A plan for responding to and reporting exceptional releases that could pose a risk to worker safety, public health, or the environment. Such releases include emergencies such as accidents, spills, fires, and explosions. The direct processor must submit this plan to all appropriate emergency responders, e.g., police, fire department, hospitals.

(v) A plan is conformable with ISO 14001, Institute of Scrap Recycling Industries' Recycling Industry Operating Standards ("RIOS"), the International Association of Electronic Recyclers' ("IAERs'") standard, or other standards designed at a level appropriate for processing at the facility.

(b) A direct processor must ensure all employees understand and follow the portions of the EHSMS relevant to the activities they perform.

(8) **Recordkeeping.**

(a) A direct processor must maintain documentation such as commercial contracts, bills of lading, or other commercially accepted documentation for all transfers of CEPs, components, parts, materials, and residual into and out of its facilities.

(b) A direct processor must retain the documents required in this subsection (8) for at least three years.

(9) **On-site requirements.**

(a) **General**

(i) Direct processors must take all practicable steps to maximize recycling.

(ii) A direct processor must have the expertise and technical capability to process each type of CEP and component it accepts in a manner protective of worker safety, public health, and the environment.

(iii) A direct processor must use materials handling, storage and management practices, that assure that all work and storage areas are kept clean and orderly.

(iv) Speculative accumulation:

(A) "Speculative accumulation" means holding, storing or accumulating CEPs, components, parts, materials, or residual derived therefrom for more than one hundred eighty days.

(B) Generators and facilities holding, storing, or accumulating CEPs, components, parts, materials, or residual derived therefrom for more than one hundred eighty days will be considered holding, storing, accumulating solid or hazardous waste and subject to applicable treatment, storage or disposal regulations or equivalent.

(v) A direct processor must use a certified scale to weigh CEPs and components counted towards a plan's equivalent share.

(b) **Storage**

A direct processor must store materials of concern removed from CEPs, components, parts, materials, or residuals in accordance with subsection (11) of this section in a manner that:

(i) Protects them from adverse atmospheric conditions and floods and, as warranted, includes a catchment system;

(ii) Is secure from unauthorized entrance; and

(iii) Is in clearly labeled containers and/or storage areas.

(c) **Exceptional releases posing risks**

A direct processor must be prepared to immediately implement the practices set forth in its EHSMS for responding to and reporting exceptional releases that could pose a risk to worker safety, public health, or the environment, including emergencies such as accidents, spills, fires, and explosions.

(10) **Materials of concern.**

Materials of concern must be handled according to the standards in this section. "Materials of concern" are any of the following:

(a) Any devices, including fluorescent tubes, containing mercury or PCBs;

(b) Batteries;

(c) CRTs and leaded glass; and

(d) Whole circuit boards.

(11) **Recycling, reuse, and disposal.**

(a) **Recycling**

(i) A direct processor must remove from CEPs and components destined for recycling any parts that contain materials of concern that would pose a risk to worker safety, public health, or the environment during subsequent processing.

(ii) A direct processor must remove any parts that contain materials of concern prior to mechanical or thermal processing and handle them in a manner consistent with the regulatory requirements that apply to the items, or any substances contained therein. Circuit boards and materials derived therefrom will be allowed to be shredded prior to separating.

(b) **Reuse**

(i) "Reuse" means any operation by which an electronic product or component of a covered electronic product changes ownership and is used, as is, for the same purpose for which it was originally purchased.

(ii) For a CEP, component or part to be put to reuse it must be fully functioning.

(iii) CEPs, components and parts gleaned for reuse shall not be included in the weight totals submitted to a plan for compensation.

(c) **Disposal of residuals**

(i) "Residuals" are leftover materials from processing CEPs, components, parts and materials. Residuals cannot be used for their original function or cannot be recycled and are sent by a processor to a disposal facility.

(ii) Residuals must be properly designated and managed under applicable solid waste and hazardous waste laws at the location where disposal occurs.

(iii) A direct processor must not send residuals containing materials of concern to incinerators or solid waste landfills if doing so will pose a higher risk to worker safety, public health, or the environment than alternative management strategies.

(iv) Residuals from processing of materials of concern must not be mixed with other residuals for the purpose of disposal.

(12) **Transport.**

A direct processor must ensure that all CEPs, CEP components and materials to be transported are packaged in compliance with all applicable transport laws and rules.

(13) **Prison labor.**

Direct processors may not use federal or state prison labor for processing.

(14) **Facility access.**

Direct processors must allow access to the facility and the documentation required in this section for the purposes of assessing compliance with the requirements in this chapter and for sampling to:

(a) Ecology and ecology's designee(s);

(b) Third-party observers for the purposes of sampling;

(c) For processors used by the standard plan:

(i) The authority;

(ii) The authority's designee(s);

(d) For processors used by an independent plan:

(i) That plan's authorized party;

(ii) The authorized party's designee(s) for that plan.

(15) **Notification of penalties and violations.**

Each direct processor must notify ecology within thirty days if the direct processor receives any penalties, violations or regulatory orders related to processing activities.

(16) **Noncompliance with minimum performance standards.**

A direct processor may not comply with a specific minimum performance standard in this section when the national, state, or local laws or rules where the processor is located and a performance standard conflict. When a conflict exists, the processor's audit report must document the conflict and processor's compliance with the corresponding laws or rules (see WAC 173-900-365).

Voluntary preferred performance standards.

(17) In addition to meeting the minimum performance standards in this section, a processor may receive preferred status from ecology if the processor conforms with the voluntary performance standards in ecology's "*Environmentally Sound Management and Performance Standards for Direct Processors*."

[Statutory Authority: Chapters 70.95N, 70.105, and 70.105D RCW. 07-21-013 (Order 07-05), § 173-900-650, filed 10/5/07, effective 11/5/07.]

WAC 173-900-700 Retailer—Offering for sale or selling CEPs in or into Washington state. In order for a retailer to offer for sale or sell a CEP in or into Washington state, on the date the product was ordered:

(1) The brand name on the CEP must be on the "manufacturer registration list" posted on ecology's web site; and

(2) The manufacturer must be in "pending" or "in compliance" status.

[Statutory Authority: Chapters 70.95N, 70.105, and 70.105D RCW. 07-21-013 (Order 07-05), § 173-900-700, filed 10/5/07, effective 11/5/07.]

WAC 173-900-710 CEP required brand labeling. (1) Beginning January 1, 2007, no person may sell or offer for sale an electronic product to any person in Washington state unless the electronic product is labeled with the manufacturer's brand.

(2) The label must be permanently affixed and readily visible.

(3) In-state retailers in possession of unlabeled, or white box, electronic products on January 1, 2007, may exhaust their stock through sales to the public.

[Statutory Authority: Chapters 70.95N, 70.105, and 70.105D RCW. 07-21-013 (Order 07-05), § 173-900-710, filed 10/5/07, effective 11/5/07.]

WAC 173-900-720 Ecology determination of compliance for retailers. Retailers:

(1) Beginning January 1, 2007, ecology may inspect any retailer's CEP inventory offered for sale in or into Washington state to determine if the requirements in this chapter are met. If ecology determines a violation has occurred, ecology will document each violation and follow the warning, violations, and penalties procedures in WAC 173-900-730, 173-900-740 and 173-900-750.

(2) Beginning January 1, 2007, ecology may check any retailer's CEP inventory offered for sale in or into Washington state to determine if brand labeling requirements in WAC 173-900-710 have been met. If ecology determines a violation has occurred, ecology will document each violation and follow the warning, violations, and penalties procedures in WAC 173-900-730, 173-900-740 and 173-900-750.

[Statutory Authority: Chapters 70.95N, 70.105, and 70.105D RCW. 07-21-013 (Order 07-05), § 173-900-720, filed 10/5/07, effective 11/5/07.]

WAC 173-900-730 Retailer violations. (1) A retailer is "in violation" of this chapter when one or more of the following retailer violations occurs:

(a) Offering for sale or selling violation;

(b) Labeling violation; or

(c) Public outreach violation.

(2) **Retailer offering for sale or selling violation.**

A retailer is in "offering for sale or selling violation" of this chapter when a retailer offers for sale or sells CEPs and:

(a) On the date the electronic products are ordered from the manufacturer or their agent, the manufacturer's name or brand name does not appear on ecology's "manufacturer registration list."

(i) This means that brand of the manufacturer's electronic products must not be sold in or into Washington state.

(ii) Each unit offered for sale or sold is a separate violation by the retailer.

(iii) If the retailer can prove that the retailer ordered the electronic products from the manufacturer or their agent prior to January 1, 2007, the offering for sale, or selling, of those products is not a retailer violation.

(b) On the date the electronic products were ordered from the manufacturer or their agent, the manufacturer was in "in violation" status on ecology's "manufacturer registration list."

(i) Each unit offered for sale or sold is a separate violation for the retailer.

(ii) If the retailer can prove that the products were ordered from the manufacturer or their agent when the brand and manufacturer name was on ecology's "manufacturer registration list" and was in "in compliance" or "pending" status, the offering for sale, or selling, of those products is not a violation.

(3) **Retailer labeling violations.**

(a) It is a retailer "labeling violation" when a retailer offers for sale or sells an electronic product in or into Washington state that is not labeled with the manufacturer's brand name.

(b) Each unlabeled unit offered for sale or sold is a separate violation by the retailer.

(c) If the retailer can demonstrate to ecology that the retailer was in possession of the unlabeled electronic products prior to January 1, 2007, the offering for sale or selling of these electronic products is not a violation.

(4) **Retailer public outreach violation.**

It is a retailer violation if the retailer does not meet the public outreach requirements in WAC 173-900-980.

[Statutory Authority: Chapters 70.95N, 70.105, and 70.105D RCW. 07-21-013 (Order 07-05), § 173-900-730, filed 10/5/07, effective 11/5/07.]

WAC 173-900-740 Warning, penalties, and corrective action for all retailer violations.

Table 740
Retailer Warning and Penalties

Type of Violation	Written Warning	First Penalty	Second and Subsequent Penalties
Offering for Sale or Selling Violation	Warning Letter	Up to $1,000	Up to $2,000
Labeling Violation	Warning Letter	Up to $1,000	Up to $2,000
Public Outreach Violation	Warning Letter	Up to $1,000	Up to $2,000

Warning letter:

(1) When ecology issues a written warning letter via certified mail to a retailer, for any violation, the warning will include a copy of the requirements to let the retailer know what the retailer must do to be in compliance.

Penalties:

(2) **First penalties:** If the retailer does not meet the compliance requirements in the warning letter within thirty days of receipt of the warning, ecology will assess a first penalty, as defined in Table 740 above.

(3) **Second and subsequent penalties:** Ecology will issue second and subsequent penalties as defined in Table 740 no more often than every thirty days for the same violation.

(4) Ecology will deposit all penalties collected under this section into the electronic products recycling account created under RCW 70.95N.130.

Appeals:

(5) Violations and penalties may be appealed to the pollution control hearings board, pursuant to chapter 43.21B RCW.

[Statutory Authority: Chapters 70.95N, 70.105, and 70.105D RCW. 07-21-013 (Order 07-05), § 173-900-740, filed 10/5/07, effective 11/5/07.]

WAC 173-900-750 Corrective action for all retailer violations. (1) For offering for sale and selling violations, the retailer must stop offering for sale or selling CEPs until the manufacturer is listed as "pending" or "in compliance" status on ecology's "manufacturer registration list."

(2) For a labeling violation, the retailer must meet the requirements in WAC 173-900-710;

(3) For a public outreach violation, the retailer must meet the requirements in WAC 173-900-980; and

(4) The retailer must pay or settle any penalties.

[Statutory Authority: Chapters 70.95N, 70.105, and 70.105D RCW. 07-21-013 (Order 07-05), § 173-900-750, filed 10/5/07, effective 11/5/07.]

WAC 173-900-800 CEP recycling plan annual reports. (1) By March 1, 2010, and each program year thereafter, the authority and each authorized party must file an annual report with ecology for the preceding year's program. Ecology will review the report and notify the authority or authorized party of any deficiencies that need to be addressed.

(2) **Annual report content:** The annual report must include the following information:

(a) The total weight in pounds of CEPs, including orphans, for the preceding program year including documentation verifying collection and processing of that material for:

(i) CEPs collected, reported by county, not including CEPs gleaned for reuse;

(ii) CEPs recycled;

(iii) Nonrecycled residual from CEPs; and

(iv) Final destination for the processing of CEPs and components and final destination for disposal of residuals.

(b) The total weight in pounds of CEPs received from each nonprofit charitable organization primarily engaged in the business of reuse and resale used by the plan;

(c) The total weight in pounds of CEPs that were received in large quantities from small businesses, small governments, charities and school districts;

(d) The collection services provided in each county and for each city with a population greater than ten thousand including a list of all collection sites and services operating in the state in the prior program year and the parties who operated them;

(e) Processor information:

(i) A list of all direct processors used;

(ii) The weight of CEPs processed by each direct processor;

(iii) A description of the processes and methods used by each direct processor to recycle the CEPs including a description of the processing and facility locations; and

(iv) A compliance audit report meeting the requirements in WAC 173-900-365 for each direct processor listed in the authority or authorized party's ecology approved plan;

(f) A list of subcontractors used by the direct processor including their facility addresses;

(g) Educational and promotional efforts that were undertaken to inform covered entities about where and how to reuse and recycle their CEPs;

(h) The results of sampling as required in WAC 173-900-900;

(i) The amount of unwanted electronic products, electronic components, and electronic scrap that have been exported from Washington state to countries that are not members of the organization for economic cooperation and development or the European Union;

(j) The list of manufacturers that are participating in the plan;

(k) Signature of the authority or the authorized party;

(l) Any other clarifying information deemed necessary by ecology to determine compliance with this chapter; and

(m) Documentation of work done with the processors used by the plan to promote and encourage the design of electronic products that are less toxic and contain components that are more recyclable.

(3) **Submittal:** The authority or authorized party must submit:

(a) One electronic copy in a format usable by ecology that allows electronic editing and commenting; and

(b) Two paper copies to one of the following addresses:

For U.S. Postal Service:

Department of Ecology
Electronic Product Recycling
Solid Waste and Financial Assistance Program
P.O. Box 47600
Olympia, WA 98504-7600

Or

For Courier:

Department of Ecology
Electronic Product Recycling
Solid Waste and Financial Assistance Program
300 Desmond Drive
Lacey, WA 98503

(c) Faxes are not accepted.

(4) All reports must use the "CEP recycling report template" provided by ecology.

(5) **Review and approval:** Ecology will review each report within ninety days of receipt and will notify the authority or authorized party of any need for additional information or documentation, or any deficiency in its program or the report.

(a) Within five business days of receipt of the report, ecology will notify the authority or authorized party that the report has been received and it is under review.

(b) If ecology determines that there are no deficiencies in the report, a written notice of approval will be sent via certified mail.

(c) If ecology determines that additional information is needed, the authority or authorized party must submit the additional information to ecology within thirty days of receipt of the notice.

(d) If ecology determines that there are deficiencies in the authority's or authorized party's program, the authority or authorized party must submit an updated plan to ecology following the process in WAC 173-900-335.

(6) Ecology will post all reports on the agency web site.

(7) Proprietary information submitted to ecology under this chapter is exempt from public disclosure under RCW 42.56.270.

[Statutory Authority: Chapters 70.95N, 70.105, and 70.105D RCW. 07-21-013 (Order 07-05), § 173-900-800, filed 10/5/07, effective 11/5/07.]

WAC 173-900-810 Local government and community satisfaction reports. (1) Starting January 1, 2010, local governments and local communities are encouraged to submit an annual satisfaction report to ecology by March 1 of each calendar year.

(2) The entity responsible for preparing the solid waste management plan for an area is responsible for submitting the satisfaction report to ecology.

(3) **Report content:** If submitting a report to ecology, the report must include information about local government and community satisfaction with the services provided by plans in their community including:

(a) Accessibility and convenience of services;

(b) How services are working in their community;

(c) What services are not working and why;

(d) Suggestions for improvements to the services being provided by plans;

(e) Description of public outreach and education; and

(f) Any other information the local government determines is important to include.

(4) **Submittal:** If submitting a report, the submitting entity must submit:

(a) One electronic copy, by e-mail or other electronic means, in a format usable by ecology that allows electronic editing and commenting; and

(b) One paper copy by mail to one of the following addresses:

For U.S. Postal Service:

Department of Ecology
Electronic Product Recycling
Solid Waste and Financial Assistance Program
P.O. Box 47600
Olympia, WA 98504-7600

Or

For Courier:

Department of Ecology
Electronic Product Recycling
Solid Waste and Financial Assistance Program
300 Desmond Drive
Lacey, WA 98503

(5) All reports must use the "local government satisfaction report template" prescribed by ecology.

(6) **Review and approval:** Ecology will review each report within ninety days of receipt and will notify the submitting entity of any need for additional information or documentation.

(a) Within five business days of receipt of the report, ecology will notify the submitting entity that the satisfaction report has been received and it is under review.

(b) If ecology determines that no additional information is needed, ecology will send a written notice of approval to the submitting entity.

(c) If ecology determines that additional information is needed, the submitting entity must submit the additional information to ecology within thirty days of receipt of the notice.

(7) If a report is submitted, ecology will use the information provided in these reports when reviewing plan updates and revisions.

(a) Reports indicating dissatisfaction will be sent to the authority or authorized party.

(b) The authority or authorized party has sixty days to respond to the report submittee(s) and ecology addressing issues raised in the report.

(c) If based on this response, ecology determines that the plan is failing to provide service in a community, ecology will send written notice, via certified mail, to the authority or authorized party.

(d) The authority or authorized party will have sixty days from receipt of the notice to submit an updated plan to ecology (see WAC 173-900-335).

(8) At any time, communities may submit comments to ecology about the CEP recycling programs in their area.

[Statutory Authority: Chapters 70.95N, 70.105, and 70.105D RCW. 07-21-013 (Order 07-05), § 173-900-810, filed 10/5/07, effective 11/5/07.]

WAC 173-900-820 Nonprofit charitable organization collection reports. (1) Starting in 2010, and every calendar year thereafter, nonprofit charitable organizations that are primarily engaged in the business of reuse and resale that collect CEPs for a plan must submit an annual report to ecology by March 1.

(2) The report must indicate and document the weight of CEPs sent for recycling during the previous program year attributed to each plan that the nonprofit charitable organization is participating in.

(3) **Submittal:** The nonprofit charitable organization must submit:

(a) One electronic copy, by e-mail or other electronic means, in a format usable by ecology that allows electronic editing and commenting; and

(b) One paper copy by mail to one of the following addresses:

For U.S. Postal Service:

Department of Ecology
Electronic Product Recycling
Solid Waste and Financial Assistance Program
P.O. Box 47600
Olympia, WA 98504-7600

Or

For Courier:

Department of Ecology
Electronic Product Recycling
Solid Waste and Financial Assistance Program
300 Desmond Drive
Lacey, WA 98503

(4) All reports must use the "nonprofit charitable organization report template" prescribed by ecology.

(5) **Review and approval:** Ecology will review each report within ninety days of receipt and will notify the nonprofit charitable organization of any need for additional information or documentation.

(a) Within five business days of receipt of the report, ecology will notify the nonprofit charitable organization that the collection report has been received and it is under review.

(b) If ecology determines no additional information is needed, ecology will send written notice to the nonprofit charitable organization.

(c) If ecology determines that additional information is needed, the nonprofit charitable organization must submit the additional information to ecology within thirty days of receipt of the notice.

(d) If a nonprofit charitable organization used by a plan does not submit an annual collection report, that is approved by ecology, the plan cannot receive the five percent credit for using that organization as a collector.

[Statutory Authority: Chapters 70.95N, 70.105, and 70.105D RCW. 07-21-013 (Order 07-05), § 173-900-820, filed 10/5/07, effective 11/5/07.]

WAC 173-900-900 Return share sampling. (1) Each plan must implement and finance an auditable, statistically significant sampling of CEPs entering its program every program year using the method described in this section.

(2) CEPs reclaimed for reuse, or use in new products shall not be included in the sampling data collected under this section.

(3) Sampling data collected must include:

(a) The data as required by the return share sampling program for each CEP unit;

(b) A list of the brand names of CEPs by product type (computer, laptop or portable computer, monitor, or television);

(c) The number of CEPs by product type;

(d) The weight of CEPs that are identified for each brand name;

(e) The weight of CEPs that lack a manufacturer's brand; and

(f) The total weight of the sample by product type.

(4) **Third-party observer.**

(a) The sampling must be conducted in the presence of a third-party observer approved by ecology. Ecology will create a list of approved third-parties that a plan must use when conducting sampling to meet the requirements in this section. Ecology will post a list of approved third-party observers on the agency web site.

(b) The third-party observer will:

(i) Receive the sampling instructions from ecology;

(ii) Keep a sampling log for each day the third-party observed sampling;

(iii) Notify the direct processor twenty-four hours, not including Saturdays, Sundays or holidays, prior to the day when sampling will occur at the processor's facility;

(iv) Verify that the sampling method in this section and the sampling instructions provided by ecology are followed during the sampling event;

(v) Certify the sampling data collected; and

(vi) Submit the data and sampling log to ecology.

(c) If the third-party observer notices that sampling is not conducted in accordance with the methods in this section or the sampling instructions provided by ecology, the third-party observer must follow the procedures in subsection (6)(a) of this section.

(d) The third-party observer must not share the sampling instructions with the direct processor or the plan prior to the sampling day.

(e) The third-party observer must make a sampling log for each day the third-party observes sampling. The sampling log must include:

(i) Date and time of sampling;

(ii) Location of sampling;

(iii) Name of the manager operating the facility on that day;

(iv) Names of the members of the sampling team and role of each team member in the sampling process;

(v) A general timeline of activities throughout the day including start time for CEP sampling process, breaks taken, changes in sampling team personnel or roles, unusual events, and time when sampling process ended;

(vi) Any deviation from the sampling method in this section or sampling instructions provided by ecology including but not limited to the functioning of sampling equipment and return share sampling program;

(vii) An approximate percentage of the types of CEPs present in deliveries coming from different collectors;

(viii) Changes in rate and volume of CEPs coming into the facility;

(ix) Observations or concerns about the procedures used by the sampling team and the CEPs sampled;

(x) When sampling is stopped, a description of why and what steps were taken to try and fix the problem;

(xi) Suggestions for improving future sampling events.

(f) If a third party fails to meet these protocols, ecology may remove the third party from the list of approved observers.

(g) A plan cannot end a contract with a third-party observer for reporting errors, concerns or discrepancies with sampling to ecology.

(5) **Observation of sampling by ecology.** Ecology may, at its discretion, observe sampling and audit the method and the results in addition to the third-party observer.

(6) **Incorrect sampling.**

(a) If the third-party observer sees that the sampling is not implemented according to the method set forth in this section or the sampling instructions provided by ecology, the third-party observer must note which samples were taken incorrectly in the sampling log and work with the sampling team to correct the problem for future samples. If the problem cannot be corrected for the next sampled unit, the third-party observer must:

(i) Stop the sampling for that day;

(ii) Notify ecology of the problem; and

(iii) Notify the authority or authorized party.

(b) If ecology observes, or is notified by a third-party observer, that the sampling is not implemented according to the method set forth in this section or the sampling instructions provided by ecology, ecology may:

(i) Notify the plan of the problem;

(ii) Stop sampling for that day; or

(iii) Eliminate the data about the CEPs sampled for that entire sampling day.

(c) Ecology may also use data analysis, inspections, sworn reports or complaints from individuals to determine incorrect sampling.

(d) If any plan has data from more than one sampling day eliminated for any reason, ecology may estimate that plan's equivalent share based on samples collected by other plans in order to ensure that bias in that plan's sample does not reduce its own return share. This adjustment may be used for three years (see subsection (7) of this section).

(e) If ecology or the third-party observer stops sampling, no alternative sampling date will be assigned to the plan.

(7) **Three year rolling average to be used to construct the statistics needed for the return share.**

(a) Ecology will construct the final average results for each plan using the most recent three years of sample data.

(b) For the first two years of sampling only the years available will be used.

(8) **Review of the sampling method.**

(a) After the fifth program year, ecology may reassess the sampling methods required in this section. Ecology may adjust:

(i) Who will do the sampling;

(ii) The sample size;

(iii) The frequency of sampling;

(iv) The distribution of the sampling places;

(v) Information collected during sampling; and

(vi) The method for collecting the sample.

(b) Prior to making any changes, ecology must notify the public and provide a public comment period.

(9) **Method for sampling.**

Steps in the sampling method	
Step 1:	Ecology creates a third-party observer list.
Step 2:	Selection and payment of third party by the plans.
Step 3:	Ecology determines the sample size for a program year.
Step 4:	Ecology assigns a sample allocation to each plan.
Step 5:	Ecology provides quarterly sampling instructions to each third-party observer identified by the plans.
Step 6:	The plan conducts and records the sampling.
Step 7:	Reporting the sample.
Step 8:	Ecology must adjust for over sampling or under sampling.
Step 9:	Ecology tabulates sampling results quarterly.
Step 10:	Ecology uses sampling results to calculate return share.

Step 1: Ecology creates a third-party observer list.

(a) Ecology will list approved third-party observers on the agency web site.

(b) By December 1 of every other year ecology will announce:

(i) The third-party qualifications; and

(ii) The process for a third party to seek approval to be listed as a third-party observer.

(c) A third party may submit a request to be listed at any time during the year.

Step 2: Selection and payment of a third party by a plan.

(d) Each plan must select a third party from ecology's list to observe sampling conducted for the plan and notify ecology of the third-party observer with which they have contracted.

(e) The plans must cover the costs, including travel, of any third-party observer used by the plan to observe its sampling activities.

(f) The authority or authorized party must remit payment to the third-party observer for sampling in and outside of Washington state.

Step 3: Ecology determines the sample size for a program year.

(g) **Sample size.**

(i) The sample size will be statistically determined by applying the formula below:

$$\text{Sample Size } n = \left[\frac{\pi(1-\pi)z^2}{d^2}\right](m)$$

Where

π = Maximum brand return share in the population, in the form of a fraction. For the first year this number is estimated from data collected by the National Center for Electronics Recycling from other jurisdictions where brand returns were tallied

z = Standardized statistical critical value associated with the confidence level of ninety-five percent is 1.96

d = The maximum margin of error which is .005 at the ninety-five percent confidence level

m = Sample size increase due to unidentifiable brands. In consideration of the fact that the brand names of some units are not identifiable (e.g., white box units with no brand, or returned units where the brand is no longer legible), the sample sizes taken must be larger than those determined purely by statistical techniques. Across all product categories the incident rate for nonidentifiable samples is equal to the orphan share of CEPs sampled.

(ii) Sample size is expressed as a number of individual units of CEPs, and each unit to be sampled will be individually weighed.

Step 4: Ecology assigns a sample allocation to each plan.

(h) Ecology will assign the minimum sample size annually on the basis of each plan's return share.

(i) Starting in 2008, ecology will announce the total sample size and the proportionate plan share for sampling for each plan by December 1st of each year.

Step 5: Ecology provides quarterly sampling instructions to each third-party observer identified by the plans.

(j) Ecology will provide the contracted third-party observers with quarterly sampling instructions. Quarters begin in January, April, July, and October.

(k) The sampling instructions will include the dates for sampling, the processing facility(ies) where sampling will take place, instructions for random selection of units for sampling, and the hours of sampling.

(l) Each plan must conduct sampling for each date listed in the third-party observer's sampling instructions provided by ecology.

Step 6: The plan conducts and records the sampling.

(m) **Field sampling.**

(i) Once the third-party observer arrives at the processing facility, the plan or direct processor must introduce the observer to the members of the sampling team that will be conducting sampling for that day and let the third-party observer know the role of each member of the sampling team.

(ii) The third-party observer must inform the sampling team how to select CEP units based on the sampling instructions provided by ecology for that sampling day.

(iii) The sampling team must place a unique bar code sticker on every CEP entering the processing facility during the assigned sampling period, whether by truckload, walk-in, or other method. Prior to placing the bar code on the CEP, no sorting of CEPs can occur at the processing facility.

(iv) Before any CEP is sent for processing the sampling team must use a hand held bar code reader to scan the bar code sticker placed on that unit by the sampling team.

(v) The return share sampling computer program provided by ecology will identify whether a particular unit should be sampled.

(vi) Units identified as requiring sampling must be set aside for sampling, and units identified as not requiring sampling would be available for processing immediately.

(vii) Units identified as requiring sampling become part of the sample for that day and the sampling team must record the required data for each of those units even if it takes more than one day.

(viii) The sampling team must record all the data for the sample using the return share sampling computer program provided by ecology.

(n) If a brand name is not listed in the computer program, the sampling team must record a minimum of three digital images. The images must be of sufficient clarity that ecology can identify any printed information on the CEP.

(i) The first image will be of the entire front of the CEP.

(ii) The second image will be focused on the brand identification logo (if available).

(iii) The third image will be of the label on the back or bottom of the CEP (if available).

(iv) The photographs must be attached to the appropriate electronic record in the return share sampling computer program in a jpeg format.

Step 7: Reporting the sample.

(o) At the end of the sampling day the plan must provide the results to the third-party observer. The results must include all of the data required in subsection (3) of this section.

(p) The third-party observer will certify the results and submit one paper and one electronic copy of the results to ecology and the authority or authorized party.

Step 8: Ecology must adjust for over sampling or under sampling.

(q) If ecology determines that over or under sampling has occurred, ecology must adjust such over or under sampling as follows:

$$Vi = Si \times \text{Sample size assigned}/\text{Sample size taken}$$

$$Pi = Wi \times \text{Sample size assigned}/\text{Sample size taken}$$

Where:

Si is the total number of units weighed for brand i

Wi is the total weight of units for brand i.

(r) Ecology may adjust the extrapolation of under sampling data to account for outliers that may over estimate small manufacturer returns.

Step 9: Ecology tabulates sampling results quarterly.

(s) Quarterly, ecology will combine the sampling results required in Step 7 from all plans. If ecology observes discrepancies, ecology will follow the method in subsection (4) of this section.

Step 10: Ecology uses sampling results to calculate return share.

(t) Ecology will combine the sampling results from each quarter and use this data when calculating return share as described in WAC 173-900-910.

[Statutory Authority: Chapters 70.95N, 70.105, and 70.105D RCW. 07-21-013 (Order 07-05), § 173-900-900, filed 10/5/07, effective 11/5/07.]

Reviser's note: The brackets and enclosed material in the text of the above section occurred in the copy filed by the agency.

WAC 173-900-910 Calculating return share. (1) In order for a CEP to be counted in a plan's return share, the CEP or CEP components must go to a direct processor that meets the requirements in Part VI of this chapter.

(2) **Return shares issued in 2007 through 2009:**

(a) Ecology must determine return shares for all manufacturers in the standard plan or an independent plan by using all reasonable means and base those determinations on the best available information regarding return share data from other states and other pertinent data.

(b) If ecology does not have any return data on a particular manufacturer, ecology will assign that manufacturer to the lowest represented percentage of return share on the preliminary return list.

(c) Ecology will use the first return share to:

(i) Appoint five board members for the first term of appointments to the materials management and financing authority board of directors from the top ten manufacturers holding the highest return share; and

(ii) Establish the first program year return share for manufacturers in a plan.

(3) **Return shares issued 2010 and later:** For the second and all subsequent program years, ecology will determine the return share for each manufacturer in the standard plan or an independent plan by dividing the weight of CEPs identified for each manufacturer through the sampling methodology and protocol in WAC 173-900-900 by the total sampled weight of CEPs identified for all manufacturers in the plans. That quotient will then be multiplied by one hundred to establish a percentage share for each manufacturer.

[Statutory Authority: Chapters 70.95N, 70.105, and 70.105D RCW. 07-21-013 (Order 07-05), § 173-900-910, filed 10/5/07, effective 11/5/07.]

WAC 173-900-920 Use and publication of CEP return shares.

Return shares for program year 2009:

(1) Ecology will announce the preliminary return share for each manufacturer and each plan by June 1 of each year.

(2) Ecology will publish the preliminary return shares on the agency web site.

(3) Ecology will notify each registered manufacturer by June 1 of each year.

(4) Manufacturers may challenge their preliminary return share by written petition to ecology. The petition must be received by ecology within thirty days of the date of publication of the preliminary return shares.

(5) The petition must contain:

(a) A detailed explanation of the grounds for the challenge;

(b) An alternative calculation, and the basis for such a calculation;

(c) Documentary evidence supporting the challenge; and

(d) Complete contact information for requests for additional information or clarification.

(6) Sixty days after the publication of the preliminary return share, ecology will make a final decision on return shares, having fully taken into consideration any and all challenges to its preliminary calculations.

(7) A written record of challenges received and a summary of the basis for the challenges, as well as ecology's response, must be published at the same time as the publication of the final return shares.

(8) By August 1, 2007, ecology shall publish the final return shares for the first program year.

Return shares announced for program year 2010 and thereafter:

(9) Ecology will announce the preliminary return share and notify each registered manufacturer by June 1 of each year.

(10) Manufacturers may challenge their preliminary return share by written petition to ecology. The petition must be received by ecology within thirty days of the date of publication of the preliminary return shares.

(11) The petition must contain:

(a) A detailed explanation of the grounds for the challenge;

(b) An alternative calculation, and the basis for such a calculation;

(c) Documentary evidence supporting the challenge; and

(d) Complete contact information for requests for additional information or clarification.

(12) Sixty days after the publication of the preliminary return share, ecology will make a final decision on return shares, having fully taken into consideration any and all challenges to its preliminary calculations.

(13) A written record of challenges received and a summary of the basis for the challenges, as well as ecology's response, must be published at the same time as the publication of the final return shares.

(14) By August 1 of each program year, ecology shall publish the final return shares for use in the coming program year.

(15) Ecology will publish the final return shares on the agency web site.

[Statutory Authority: Chapters 70.95N, 70.105, and 70.105D RCW. 07-21-013 (Order 07-05), § 173-900-920, filed 10/5/07, effective 11/5/07.]

WAC 173-900-930 Calculating the total equivalent share.

Step 1: Calculating individual manufacturer equivalent share.

(1) Ecology must determine the total equivalent share for each manufacturer in the standard plan or an independent plan by dividing the return share percentage for each manufacturer by one hundred, then multiplying the quotient by the sum of total weight in pounds of CEPs collected, not including any CEPs, components or parts gleaned for reuse, for that

program year and any additional credited pounds under WAC 173-900-940.

(2) The manufacturer is responsible for distributing responsibility for equivalent share among its past and present licensees.

Step 2: Calculating a plan's equivalent share.

(3) A plan's equivalent share is equal to the total of the equivalent shares for all manufacturers participating in the plan.

[Statutory Authority: Chapters 70.95N, 70.105, and 70.105D RCW. 07-21-013 (Order 07-05), § 173-900-930, filed 10/5/07, effective 11/5/07.]

WAC 173-900-940 Equivalent share credits. Plans that use the collection services of nonprofit charitable organizations that qualify for a taxation exemption under section 501(c)(3) of the Internal Revenue Code of 1986 (26 U.S.C. Sec. 501(c)(3)) that are primarily engaged in the business of reuse and resale must be given an additional five percent credit to be applied toward a plan's equivalent share for pounds that are received for recycling from those organizations. Ecology may adjust the percentage of credit annually.

[Statutory Authority: Chapters 70.95N, 70.105, and 70.105D RCW. 07-21-013 (Order 07-05), § 173-900-940, filed 10/5/07, effective 11/5/07.]

WAC 173-900-950 Notification of equivalent share. By June 1 of each program year starting in 2010, ecology will notify each:

(1) Manufacturer of the manufacturer's equivalent share of CEPs to be applied to the previous program year;

(2) Plan of the plan's equivalent share of CEPs to be applied to the previous program year;

(3) Manufacturer and plan of how its equivalent share was determined.

[Statutory Authority: Chapters 70.95N, 70.105, and 70.105D RCW. 07-21-013 (Order 07-05), § 173-900-950, filed 10/5/07, effective 11/5/07.]

WAC 173-900-960 Share payments. (1) For a CEP recycling plan, if the total weight in pounds of CEPs collected by the plan and processed by a processor during a program year is less than the plan's equivalent share of CEPs for that year, then the authority or authorized party must submit to ecology a payment equal to the weight in pounds of the deficit multiplied by the reasonable collection, transportation, processing, and recycling cost for CEPs and an administrative fee.

(2) Moneys collected by ecology must be deposited in the electronic products recycling account created under RCW 70.95N.130.

(3) For a plan, if the total weight in pounds of CEPs collected during a program year is more than the plan's equivalent share of CEPs for that year, then ecology shall submit to the authority or authorized party, a payment equal to the weight in pounds of the surplus multiplied by the reasonable collection, transportation, processing, and recycling cost for CEPs.

(4) For purposes of this section, the initial reasonable collection, transportation, processing, and recycling cost for CEPs is forty-five cents per pound and the administrative fee is five cents per pound.

(5) Ecology may annually adjust the reasonable collection, transportation, processing, and recycling cost for CEPs and the administrative fee described in this section. Prior to making any changes ecology will:

(a) Post the proposed new amounts on the agency web site;

(b) Send notice to all registered manufacturers;

(c) Provide a thirty-day comment period;

(d) Evaluate comments and make revisions to the amounts if appropriate; and

(e) Post the new amounts on the agency web site.

(6) Ecology will notify all registered manufacturers of any changes to the reasonable collection, transportation, processing, and recycling cost or the administrative fee by January 1 of the program year in which the change is to take place.

[Statutory Authority: Chapters 70.95N, 70.105, and 70.105D RCW. 07-21-013 (Order 07-05), § 173-900-960, filed 10/5/07, effective 11/5/07.]

WAC 173-900-970 Collecting and paying share payments.

Billing share payments.

(1) By June 1 of each program year, ecology will bill any authorized party or authority that has not attained its plan's equivalent share as determined in WAC 173-900-930 share payments. The authorized party or authority must remit payment to ecology within sixty days from the billing date.

Ecology payment of share payments.

(2) By September 1 of each program year, ecology must pay any authorized party or authority that exceeded its plan's equivalent share.

[Statutory Authority: Chapters 70.95N, 70.105, and 70.105D RCW. 07-21-013 (Order 07-05), § 173-900-970, filed 10/5/07, effective 11/5/07.]

WAC 173-900-980 Public outreach.

Independent and standard plans:

(1) Public outreach and marketing requirements: An independent plan and the standard plan must inform covered entities about where and how to reuse and recycle their CEPs at the end of the product's life. At a minimum, the plan must:

(a) Include a web site or a toll-free number that gives information about the recycling program in sufficient detail to educate covered entities regarding how to return their CEPs for recycling;

(b) Describe the method or methods used to provide outreach to covered entities; and

(c) Ensure outreach throughout the state.

Ecology:

(2) Ecology will promote CEP recycling by:

(a) Posting information describing where to recycle unwanted CEPs on its web site;

(b) Providing information about recycling CEPs through a toll-free telephone service; and

(c) Developing and providing artwork for use by others in flyers, signage, web content, and other advertising mechanisms.

(3) Ecology will determine the effectiveness of the public outreach and education campaign based on information supplied in the reports required under this chapter.

Local governments:

(4) Local governments must promote CEP recycling, including listings of local collection sites and services, through existing educational methods typically used by each local government.

Retailers:

(5) A retailer who sells new CEPs must provide information to consumers describing where and how to recycle CEPs and opportunities and locations for the convenient collection or return of the products at the point of sale. This outreach may include:

(a) Use of ecology's artwork in advertisements such as on flyers, shelf-tags, or brochures for this program.

(b) Providing ecology's toll-free telephone number and web site.

(c) Providing information about how to recycle CEPs in Washington either in, on, or with the packaging;

(6) Remote sellers may include the information in a visible location on their web site as fulfillment of this requirement.

Collaboration:

(7) Manufacturers, state government, local governments, retailers, and collection sites and services must collaborate in the development and implementation of the public information campaign.

[Statutory Authority: Chapters 70.95N, 70.105, and 70.105D RCW. 07-21-013 (Order 07-05), § 173-900-980, filed 10/5/07, effective 11/5/07.]

WAC 173-900-990 Ecology's relationship to the authority. (1) The director of the department of ecology, or the director's designee, will serve as an ex officio member of the materials management and finance authority board of directors.

(a) Ex officio designations must be made in writing and communicated to the authority director.

(b) The function of ecology's membership is advisory only and carries no voting privileges on matters brought before the board.

(2) Ecology must provide staff to assist in the creation of the authority.

(a) If requested by the authority, ecology will also provide start-up support staff to the authority for its first twelve months of operation, or part thereof, to assist in the quick establishment of the authority.

(b) Staff expenses incurred by ecology must be paid back to ecology through funds collected by the authority and must be reimbursed to ecology from the authority's financial resources within the first twenty-four months of operation.

[Statutory Authority: Chapters 70.95N, 70.105, and 70.105D RCW. 07-21-013 (Order 07-05), § 173-900-990, filed 10/5/07, effective 11/5/07.]

WAC 173-900-993 Appointing the board of the authority. The board of directors of the authority is comprised of eleven participating manufacturers:

(1) Five board positions are reserved for representatives of the top ten brand owners by return share of covered electronic products.

(2) Six board positions are reserved for representatives of other brands. At least one of these board positions is reserved for a manufacturer who is also a retailer selling their own private label.

(3) The board must have representation from both television and computer manufacturers.

(4) The board of directors is appointed by the director of the department of ecology.

(a) Manufacturers will indicate their interest in serving on the board of directors to ecology.

(b) Manufacturers expressing interest will be asked to submit the name of their representative.

(c) Ecology will select board members from the candidates that have expressed interest using the following criteria:

(i) Five from the top ten brand owners by return share of CEPs willing to participate on the board;

(ii) One retailer that is also a manufacturer;

(iii) Representation of manufacturers from eastern Washington;

(iv) Representation from small, in-state manufacturers;

(v) Balance between manufacturers whose business is primarily that of television manufacturing and those whose business is primarily that of computer manufacturing; and

(vi) At least one manufacturer that is a new market entrant.

(5) The first board will be appointed from those manufacturers expressing interest in serving on the board in the first registration of manufacturers.

(6) The first board of directors will serve a term of one year.

(7) Subsequent appointments to the board of directors will be made on intervals established in the authority by-laws created by the board.

[Statutory Authority: Chapters 70.95N, 70.105, and 70.105D RCW. 07-21-013 (Order 07-05), § 173-900-993, filed 10/5/07, effective 11/5/07.]

WAC 173-900-995 Board reimbursement for use of ecology support staff. (1) The costs collected under this section are only for support provided during the start-up and the first twelve months of operation for the board.

(2) The board must reimburse all costs to ecology within twenty-four months of beginning operation.

(3) Ecology will calculate reimbursements based on actual costs:

Reimbursement Amount = Direct Costs + Indirect Costs

Where:

(a) **Direct costs** include ecology staff time and other costs related to accomplishing the activities identified in subsection (1) of this section. Direct staff costs are the costs of hours worked, including salaries and benefits required by law to be paid to, or on behalf of, employees. Other direct costs are costs incurred as a direct result of ecology staff working with the board including, for example, costs of: Travel, printing and publishing of documents, and other work, contracted or otherwise, associated with the board.

(b) **Indirect costs** are those general management and support costs of ecology. Ecology applies them using the agency's approved federal indirect cost rate.

(4) **Cost reimbursement invoicing and payment.** Invoices are generally sent about the last week of the month, for the previous month's activity. Payment is expected within thirty days after the date that ecology has issued the invoice. If the board uses ecology support staff, the authority must reimburse ecology from the authority's financial resources within the first twenty-four months of operation.

[Statutory Authority: Chapters 70.95N, 70.105, and 70.105D RCW. 07-21-013 (Order 07-05), § 173-900-995, filed 10/5/07, effective 11/5/07.]

WAC 173-900-997 The standard plan's assessment of charges and apportionment of costs. (1) Manufacturers participating in the standard plan must pay the authority to cover all administrative and operational costs associated with the collection, transportation, processing, and recycling of covered electronic products within the state of Washington incurred by the standard program operated by the authority to meet the standard plan's equivalent share obligation.

(2) The authority must assess charges on each manufacturer participating in the standard plan and collect funds from each participating manufacturer for the manufacturer's portion of the costs in subsection (1) of this section.

(a) Such apportionment must be based on return share, market share, any combination of return share and market share, or any other equitable method.

(b) The authority's apportionment of costs to manufacturers participating in the standard plan may not include nor be based on electronic products imported through the state and subsequently exported outside the state.

(c) Charges assessed under this section must not be formulated in such a way as to create incentives to divert imported electronic products to ports or distribution centers in other states.

(d) The authority must adjust the charges to manufacturers participating in the standard plan as necessary in order to ensure that all costs associated with the identified activities are covered.

(3) The authority may require financial assurances or performance bonds for manufacturers participating in the standard plan, including but not limited to new entrants and white box manufacturers, when determining equitable methods for apportioning costs to ensure that the long-term costs for collecting, transporting, and recycling of a covered electronic product are borne by the appropriate manufacturer in the event that the manufacturer ceases to participate in the program.

(4) Nothing in this section authorizes the authority to assess fees or levy taxes directly on the sale or possession of electronic products.

(5) If a manufacturer has not met its financial obligations as determined by the authority, the authority must notify ecology that the manufacturer is not participating in the standard plan (see WAC 173-900-350).

(6) The authority must submit its plan for assessing charges and apportioning cost on manufacturers as part of the standard plan (see Part III, WAC 173-900-320).

(7) **Appeals:** Any manufacturer participating in the standard plan may appeal an assessment of charges or apportionment of cost as collected by the authority.

(a) The manufacturer must pay their charges or apportionment to the authority and submit a written petition to the director of the department of ecology within fourteen calendar days of receipt of notification of charges or apportionment. The written petition must include proof that:

(i) The authority's assessments or apportionment of costs were an arbitrary administrative decision;

(ii) An abuse of administrative discretions is proven; or

(iii) It is not an equitable assessment of apportionment of costs.

(b) Within thirty calendar days of receipt of the written petition, the director or the director's designee will review the appeal.

(c) The director will reverse any assessments of charges or apportionment of costs if the appeal is determined to be correct.

(d) If the director reverses an assessment of charges, the authority must:

(i) Redetermine the assessment or apportionment of costs and submit a plan revision as described in WAC 173-900-335, CEP recycling plan update; and

(ii) Once the revision is approved by ecology, send refunds or assess additional charges to standard plan participants per the revision.

(8) **Arbitration:** Disputes regarding the final decision by the director or the director's designee may be challenged through arbitration.

(a) The director shall appoint one member to serve on the arbitration panel.

(b) The challenging party shall appoint one member to serve on the arbitration panel.

(c) These two members shall choose a third person to serve. If the two persons cannot agree on a third person, the presiding judge of the Thurston county superior court shall choose a third person.

(d) The decision of the arbitration panel shall be final and binding, subject to review by the superior court solely upon the question of whether the decision of the panel was arbitrary or capricious.

[Statutory Authority: Chapters 70.95N, 70.105, and 70.105D RCW. 07-21-013 (Order 07-05), § 173-900-997, filed 10/5/07, effective 11/5/07.]