

**Table 10.1 - Enforceable Snohomish County Document Updates to Match Ecology's Significant Changes**

Note: page numbers in this table refer to the ~~strikeout~~/underline versions of the documents

Significant Change Being Addressed	Enforceable Document Being Updated	Section Within The Enforceable Document Being Updated	Text As Written In The 2014 Functionally Equivalent Enforceable Document	Proposed Text To Gain 2019 Functional Equivalency
<b>1. Continuous Simulation Modeling</b>				
Text updated throughout the SWMMWW to require continuous simulation models that include:				
The ability to directly model BMPs that may be used in LID applications, such as bioretention, permeable pavement, and green roofs	Snohomish County Drainage Manual	Volume I, Chapters 2, 3 4, Appendix I-D, Appendix I-E Volume III, Chapter 2 Volume V, Chapters 4, 5, 7	See <del>strikeout</del> / <u>underline</u> text sections referenced in Attachment for Significant Change 1, Part A	See <del>strikeout</del> / <u>underline</u> text sections referenced in Attachment for Significant Change 1, Part A
15-minute time steps	Snohomish County Drainage Manual	Volumes I, Chapters 2, 4 Volume II, Chapter 3 Volume V, Chapter 4, 8, 9	See <del>strikeout</del> / <u>underline</u> text sections referenced in Attachment for Significant Change 1, Part B	See <del>strikeout</del> / <u>underline</u> text sections referenced in Attachment for Significant Change 1, Part B
Incorporation of the van Genuchten algorithm to model bioretention	Snohomish County Drainage Manual	Volume V, Chapter 7	See <del>strikeout</del> / <u>underline</u> text sections in Volume V, Chapter 7.3 Bioretention BMPs, BMP T7.30 – Bioretention Cells, Swales, and Planter Boxes, pages 124, 125	See referenced <del>strikeout</del> / <u>underline</u> text sections
<b>2. Replaced Hard Surfaces Redevelopment Threshold</b>				
The Minimum Requirement Thresholds for non-road related commercial or industrial redevelopment projects updated to require the project proponent to compare the value of the proposed improvements to the value of the Project Site (the limits of disturbance) improvements, rather than the Site (the entire parcel) improvements	Snohomish County Code	SCC 30.63A.310(6)	(6) In addition to the requirements in subsections (1) through (4) of this section, all redevelopment projects, except road-related projects covered by subsection (5) of this section, shall comply with minimum requirements 1 through 9 (SCC 30.63A.400 through 30.63A.605) for the new plus replaced hard surfaces and converted vegetation areas when:  (a) The total of the new plus replaced hard surfaces totals 5,000 square feet or more; and  (b) The value of proposed improvements, including interior improvements, exceeds 50% of the assessed value of the existing site improvements.	(6) In addition to the requirements in subsections (1) through (4) of this section, all redevelopment projects, except road-related projects covered by subsection (5) of this section, shall comply with minimum requirements 1 through 9 (SCC 30.63A.400 through 30.63A.605) for the new plus replaced hard surfaces and converted vegetation areas when:  (a) The total of the new plus replaced hard surfaces totals 5,000 square feet or more; and  (b) One of the following valuation criteria is met, as applicable. For the purpose of meeting this valuation criteria, “commercial use” means a structure or site used for providing goods, merchandise or services for compensation, and “industrial use” means structures or sites used for the primary purposes of manufacturing, assembly, processing or storage of products or equipment:  (i) For projects that include commercial or industrial uses: the valuation of the proposed improvements, including interior improvements, exceeds 50% of the assessed

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				value of the existing project site improvements as documented by the applicant; or (ii) For projects other than commercial or industrial: the value of proposed improvements, including interior improvements, exceeds 50% of the assessed value of the existing site improvements as documented by the applicant.
[same as above]	Snohomish County Drainage Manual	Volume I, Chapter 2.4, page 16	[text as written above – Drainage Manual presents code text]	[text as written above – Drainage Manual presents code text]
[same as above]	Snohomish County Drainage Manual	Volume I, Chapter 2.4, Figure 1.2, page 18	Does the project result in or add 5,000 square feet or more of <b>new plus replaced</b> hard surface <b>AND</b> does the value of proposed improvements including interior improvements exceed 50% of the assessed value of the existing site improvements?	Does the project result in or add 5,000 sq. ft. or more of <b>new plus replaced</b> hard surface <b>AND</b> (1) for commercial or industrial projects, does the value of proposed improvements including interior improvements exceed 50% of the assessed value of the <b>project site</b> improvements, <b>OR</b> (2) for projects other than commercial or industrial projects, does the value of proposed improvements including interior improvements exceed 50% of the assessed value of the <b>existing site</b> improvements?
<b>3. Equivalent Areas</b>				
The Redevelopment Project Thresholds have been updated to allow a project proponent to provide Stormwater Management BMPs for an equivalent area. The equivalent area may be on-site or off-site if the area drains to the same receiving water and the guidance for in-basin transfers is followed.	Snohomish County Code	SCC 30.63A.310(4)	(4) The director may allow the minimum requirements to be met for an equivalent area of flow and pollution characteristics within the same site. For public road projects, the equivalent area does not have to be within the project limits, but must drain to the same receiving water.	(4) Minimum Requirements #5, #6, #7, and/or #8 may be met for an area within a TDA by providing flow control or treatment capacity for an area of equivalent flow and pollution characteristics within the same TDA. The equivalent area does not have to be within the same TDA or project limits, but must drain to the same receiving water, and the guidance for equivalent facilities using in-basin transfers must be followed in Appendix I-D.6 Regional Facility Area Transfers in Volume I of the 2019 Ecology Stormwater Management Manual for Western Washington.
	Snohomish County	Volume I, Chapter 2.4, pages 15-16	[text as written above – Drainage Manual presents code text]	[text as written above – Drainage Manual presents code text]
<b>4. Minimum Requirement 2</b>				
The 13 Elements in Minimum Requirement 2 (Construction Stormwater Pollution Prevention) have been updated to incorporate changes that were	Snohomish County Drainage Manual	Volume II, Chapter 3	See <del>strikeout/underline</del> text sections in the following sections of Volume II, Chapter 3.2.3, Selection of BMPs for each SWPPP element:	See referenced <del>strikeout/underline</del> text sections

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made to the <i>2015-2020 Construction Stormwater General Permit</i>			<ul style="list-style-type: none"> <li>• SWPPP element 3: control flow rates, pages 13, 14</li> <li>• SWPPP element 4: install sediment controls, page 14</li> <li>• SWPPP Element 6: protect slopes, pages 15, 16</li> <li>• SWPPP element 8: stabilize channels and outlets, page 17</li> <li>• SWPPP element 9: control pollutants, page 18</li> <li>• SWWP element 10: control dewatering, page 19</li> <li>• SWPPP element 13: protect on-site stormwater management BMPs for runoff from roofs and other hard surfaces, page 21</li> </ul>	
<b>5. Minimum Requirement 5</b>				
Minimum Requirement 5 (On-Site Stormwater Management) has been updated to require BMP T5.13 (Soil Quality and Depth) when choosing to use the LID Performance Standard to meet Minimum Requirement 5, for Minimum Requirement 1-5 projects	Snohomish County Drainage Manual	Volume I, Chapter 2.5.5 – Minimum Requirement 5: On-Site Stormwater Management, section titled Project Thresholds	See <del>strikeout/underline</del> text sections in Volume I, Chapter 2.5.5 Minimum Requirement 5: On-site Stormwater Management, section titled Project Thresholds, page 21	See referenced <del>strikeout/underline</del> text sections
<b>6. Minimum Requirement 7</b>				
Minimum Requirement 7 (Flow Control) has been updated to ensure that a TDA discharging to a marine waterbody meets all exemption requirements before it can be determined to be Flow Control exempt.	Snohomish County Drainage Manual	Volume I, Chapter 2, Appendix I-E	See <del>strikeout/underline</del> text sections in Volume I: <ul style="list-style-type: none"> <li>• Chapter 2.5.7, Minimum Requirement 7: Flow Control, page 25</li> <li>• Appendix I-E: Surface Waters Exempt From Flow Control Requirements, page 80</li> </ul>	See referenced <del>strikeout/underline</del> text sections
<b>7. Concrete Washout BMP C154</b>				
BMP C154 (Concrete Washout Area) updated to clarify that auxiliary concrete truck components and small concrete handling equipment may be washed into formed areas awaiting concrete pour, while concrete truck drums must be washed either off-site or into a concrete washout area	Snohomish County Drainage Manual	Volume II, Chapter 4	See <del>strikeout/underline</del> text sections in Volume II, Chapter 4, Standards and Specifications for Best Management Practices, BMP C154: Concrete Washout Facilities, page 70	See referenced <del>strikeout/underline</del> text sections
<b>8. Source Control BMPs</b>				
Volume IV (Source Control BMP Library) has been updated with Source Control BMPs for activities not listed in previous versions of the manual. The new activities with Source Control BMPs are listed below.				
New BMP S434 BMPs for Dock Washing	Snohomish County Drainage Manual	Volume IV, Chapters 3, 4	Chapter 3.32, pages 56-57 Chapter 4.32, page 127	See referenced <del>strikeout/underline</del> text sections

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New BMP S435 BMPs for Pesticides and an Integrated Pest Management Program	Snohomish County Drainage Manual	Volume IV, Chapters 3, 4	Chapter 3.34, pages 60-61 Chapter 4.34, pages 130-133	See referenced strikeout/underline text sections
New BMP S 436 BMPs for Color Events	Snohomish County Drainage Manual	Volume IV, Chapters 3, 4	Chapter 3.40, pages 73-75 Chapter 4.40, page 141	See referenced strikeout/underline text sections
New BMP S438 BMPs for Construction Demolition	Snohomish County Drainage Manual	Volume IV, Chapters 3, 4	Chapter 3.41, page 76 Chapter 4.41, page 142	See referenced strikeout/underline text sections
New BMP S439 BMPs for In-water and Over-water Fueling	Snohomish County Drainage Manual	Volume IV, Chapters 3, 4	Chapter 3.39, pages 69-72 Chapter 4.39, page 140	See referenced strikeout/underline text sections
New BMP S440 BMPs for Pet Waste	Snohomish County Drainage Manual	Volume IV, Chapters 3, 4	Chapter 3.42, page 77 Chapter 4.42, page 143-145	See referenced strikeout/underline text sections
New BMP S441 BMPs for Potable Water Line Flushing, Water Tank Maintenance, and Hydrant Testing	Snohomish County Drainage Manual	Volume IV, Chapters 3, 4	Chapter 3.33, page 58-59 Chapter 4.33, page 128	See referenced strikeout/underline text sections
New BMP S442 BMPs for Labeling Storm Drain Inlets On Your Property	Snohomish County Drainage Manual	Volume IV, Chapters 3, 4	Chapter 3.43, page 79 Chapter 4.43, pages 146-147	See referenced strikeout/underline text sections
New BMP S443 BMPs for Fertilizer Application	Snohomish County Drainage Manual	Volume IV, Chapters 3, 4	Chapter 3.44, pages 80-81 Chapter 4.44, page 148	See referenced strikeout/underline text sections
New BMP S444 BMPs for Storage of Dry Pesticides and Fertilizers	Snohomish County Drainage Manual	Volume IV, Chapters 3, 4, 5	Chapter 3.35, page 62 Chapter 4.35, page 134 Chapter 5.1.8, page 171	See referenced strikeout/underline text sections
New BMP S445 BMPs for Temporary Fruit Storage	Snohomish County Drainage Manual	Volume IV, Chapters 3, 4, 5	Chapter 3.38, pages 67-68 Chapter 4.38, page 139 Chapter 5.1.10, page 173	See referenced strikeout/underline text sections
New BMP S446 BMPs for Well, Utility, Directional and Geotechnical Drilling	Snohomish County Drainage Manual	Volume IV, Chapters 3, 4	Chapter 3.35, pages 82-83 Chapter 4.35, page 149	See referenced strikeout/underline text sections
New BMP S447 BMPs for Roof Vents	Snohomish County Drainage Manual	Volume IV, Chapters 3, 4	Chapter 3.46, pages 84-85 Chapter 4.46, page 150	See referenced strikeout/underline text sections
New BMP S449 BMPs for Nurseries and Greenhouses	Snohomish County Drainage Manual	Volume IV, Chapters 3, 4, 5	Chapter 3.36, pages 63-64 Chapter 4.36, page 135 Chapter 5.1.9, page 172	See referenced strikeout/underline text sections
New BMP S 450 BMPs for Irrigation	Snohomish County Drainage Manual	Volume IV, Chapters 3, 4,	Chapter 3.37, pages 65-66 Chapter 4.37, page 136-137	See referenced strikeout/underline text sections
New BMP S451 BMPs for Building Repair, Remodeling, Painting, and Construction		Volume IV, Chapters 3, 4	Chapter 3.47, pages 86-87 Chapter 4.47, page 151	See referenced strikeout/underline text sections
New BMP S452 BMPs for Goose Waste		Volume IV, Chapters 3, 4	Chapter 3.48, page 88 Chapter 4.48, page 152-154	See referenced strikeout/underline text sections
<b>9. Wetlands Guidance</b>				
Appendix I-C (Wetland Protection Guidelines) and Minimum Requirement 8 (Wetlands Protection) have been updated to require monitoring and modeling of	Snohomish County Drainage Manual	Volume I-D Wetland Protection Requirements	See strikeout/underline text sections in Volume I, Appendix I-D, pages 60-79	See referenced strikeout/underline text sections

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<p>high value wetlands, if the project proponent has legal access to them. The 2014 Wetland Guidance is retained, but refined, for modeling requirements for lower value wetlands (and high value wetlands that the project proponent does not have legal access to).</p>	<p>Snohomish County Code</p>	<p>30.63A.570(1)</p>	<p>1) When minimum requirement 8 applies pursuant to part 300 of this chapter and no exemption under SCC 30.63A.200 applies, and when a project will result in the direct or indirect (through a conveyance system) discharge of stormwater into a wetland or wetland buffer, the requirements of this section shall be met.</p>	<p>(1) When minimum requirement 8 applies pursuant to part 300 of this chapter and no exemption under SCC 30.63A.200 applies, and when a project will result in the direct or indirect (through a conveyance system) discharge of stormwater into a wetland or wetland buffer, the requirements of this section shall be met. <u>Each TDA within a project that requires minimum requirement 8 must be reviewed to determine what level(s) of wetland protection must be applied to the TDA to comply with minimum requirement 8. Levels of wetland protection shall apply as set forth in Volume I Appendix I-D of the Drainage Manual.</u></p>

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### **Attachment for Significant Change 1 - Continuous Simulation Modeling**

#### **Part A. Requiring continuous simulation models with the ability to directly model BMPs that may be used in LID applications, such as bioretention, permeable pavement, and green roofs**

This requirement is met by requiring the use of an “approved continuous runoff hydrologic model” as defined in the Snohomish County Drainage Manual and in the potential context of modeling LID BMPs. This term is used or referred to in the following places in the draft Snohomish County Drainage Manual.

#### Volume I

Chapter 2.5.7 Minimum Requirement 7: Flow Control, pages 25-26

Chapter 2.5.8 Minimum Requirement 8: Wetlands Protection, pages 28-31

Chapter 3.3: Offsite Analysis, page 38

Chapter 3.5: Preparation of Permanent Stormwater Control Plan, page 41

Chapter 4.2: BMP and Facility Selection Process, pages 45-47

Appendix I-D: Wetland Protection Requirements, pages 62, 65, 66, 69, 76

Appendix I-E: Surface Waters Exempt From Flow Control Requirements, page 80

#### Volume III

Chapter 2.1: Minimum Computational Standards, pages 3-8

Chapter 2.2: Continuous Runoff Hydrologic Model Method, page 8-14, 19

#### Volume V

Chapter 4.1.2: Water Quality Design Flow Rate, page 6,

Chapter 4.1.5: Minimum Treatment Facility Size, page 7

Chapter 5: On-Site Stormwater Management and LID BMPs, pages 77, 78, 92, 93, 96

Chapter 7.3: Bioretention BMPs, pages 111, 124, 125, 129

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### **Part B. Requiring the use of 15-minute time steps in hydrologic modeling**

#### Volume I

Chapter 2.5.7 Minimum Requirement 7: Flow Control, Thresholds for Requiring Flow Control, page 25

Chapter 4.2 BMP and Facility Selection Process, Step 3d: Determine whether flow control is needed per flow-based criterion, page 46

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### Volume II

Chapter 3.2.3, Selection of BMPs for each SWPPP element

SWPPP Element 6: protect slopes, pages 15-16

SWPPP element 8: stabilize channels and outlets, page 18

### Volume V

Chapter 4.5.1, Flow Splitter Design, page 14

Chapter 8.5: BMPS for Sand Filtration, pages 139, 156

Chapter 9.4: Best Management Practices (Biofiltration), pages 169, 171, 173, 177

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