

| Location | Approximate page numbers | Change tied to permit language | Change | Reasoning or comments |
|----------------------------------|--------------------------|--------------------------------|-------------------------|--|
| <u>Chapter 1</u> | | | | |
| Sections 1-1 and 1-2 | 1-1 to 1-5 | No | Edited and deleted text | Edited text to clarify language and guidance. Deleted text that was not relevant to designing stormwater systems. |
| 2011 HRM Sections 1-1.4 to 1-2.3 | 1-5 to 1-12 | No | Deleted or moved | Deleted language that was not relevant to designing stormwater systems. Moved relevant language to other sections. |
| Sections 1-3 and 1-4 | 1-12 to 1-14 | No | Edited text | Edited text to clarify language and guidance. |
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| <u>Chapter 2</u> | | | | |
| 2011 HRM Sections 2-2 and 2-3 | 2-2 to 2-3 | No | Deleted | Deleted language that was not relevant to designing stormwater systems. Some of the information is included in other WSDOT manuals. |
| Section 2-x | 2-3 to 2-14 | No | Edited text | Edited text to clarify language and guidance. |
| Table 2-2 | 2-3 to 2-4 | No | Deleted | Information covered in other WSDOT manuals and responsibilities vary by region. |
| 2011 HRM Section 2-3.3 | 2-9 | No | Deleted | Integrated into Chapter 5, Section 5-3.6 |
| 2011 HRM Section 2-3.4 | 2-9 | No | Deleted | Integrated into Section 2-1.3.3 and the Environmental Procedures Manual (EPM) |
| Section 2-1.3.1 | 2-10 | No | Text edited | Edited text to clarify language and guidance. Scoping instructions will be placed on the HRM website since those are subject to change year to year. |
| Section 2-1.3.2 | 2-11 | No | Edited text | Edited text to clarify language and guidance. |
| Section 2-1.3.3 | 2-11 to 2-12 | No | Edited text | Edited text to clarify language and guidance. Some deleted language is presently or will be inserted into the EPM. |
| Table 2-3 | 2-13 | No | Deleted | Placed into the on-line scoping instructions |
| Sections 2-1.3.5 to 2-1.3.8 | 2-13 to 2-14 | No | Edited text | Edited text to clarify language, guidance, and current business practices. |

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| Section 2-2 | 2-14 | No | Edited text | Edited text to clarify language, guidance, and current business practices. |
| Section 2-3 | 2-15 to 2-16 | Yes | Edited text | Edited text to introduce LID concept, clarify language, guidance, and current business practices. |
| Section 2-4 | 2-16 to 2-26 | No | Edited text | Edited text to clarify language, guidance, and current business practices. |
| 2011 HRM Sections 2-6.2 and 2-6.3 | 2-19 to 2-20 | No | Deleted | Integrated into the (EPM) |
| 2011 HRM Sections 2-7.1, 2-7.2, and 2-7.3.1 | 2-22 to 2-24 | No | Deleted | Integrated into the (EPM) |
| 2011 HRM Section 2-7.5 | 2-26 | No | Deleted | Material covered in Section 3-4 |
| | | | | |
| <u>Chapter 3</u> | | | | |
| Table 3-3 | 3-17 | Yes | Changed 1 hour to 15 minutes for model runs | Changed to be consistent with permit |
| Table 3-5 | 3-21 to 3-24 | Yes | Added exempt water bodies | Changed to be consistent with SWMMWW |
| | 3-24 | No | Added clarification on modeling analysis | Clarification |
| Table 3-6 | 3-26 | Yes | Changed 1 hour to 15 minutes for model runs | Changed to be consistent with permit |
| Section 3-4 | 3-31 to 3-33 | No | Edited text | Edited text to clarify language, guidance, and current business practices. |
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| <u>Chapter 4</u> | | | | |
| Section 4-3.1.1 | 4-9 to 4-11 | No | Edited text | Edited text to clarify language, guidance, and current business practices. |
| Section 4-3.2 | 4-12 | No | Edited text | Edited text to clarify language, guidance, and current business practices. |

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| Section 4-3.3 | 4-12 | No | Edited text | Edited text to acknowledge that Chapter 6 will become it's own manual |
| 2011 HRM Section 4-3.5 | 4-12 to 4-15 | No | Deleted section | Moved section to Appendix 4-E |
| Section 4-3.5 | 4-17 | No | Added text | Added text to introduce designers to a spreadsheet to track land cover changes |
| Table 4-1 | 4-22 | No | Edited text | Changed table to update land cover modeling instructions |
| Table 4-2 | 4-23 | No | Edited text | Changed table to update land cover modeling instructions |
| Section 4-3.5.1 | 4-23 to 4-26 | No | Deleted text | Moved text to Appendix 4-E |
| Section 4-4.3 | 4-29 | No | Edited text | Edited text to acknowledge that Chapter 6 will become it's own manual |
| Section 4-5 | 4-35 to 4-47 | Yes | Edited text | Added LID design and feasibility criteria |
| Section 4-5.3.1 | 4-47 to 4-51 | No | Deleted text | Moved text to Appendix 4-D |
| 2011 HRM Section 4-5.3.1 | 4-52 to 4-66 | No | Deleted text | Moved text to Appendix 4-D |
| HRM Section 4-5.3.3.1 | 4-66 to 4-69 | No | Deleted text | Moved text to Chapter 5, CAVFS design guidance |
| Section 4-5.5 | 4-70 | No | Edited text | Clarify design guidance |
| Section 4-5.5 | 4-75 to 4-77 | No | Deleted text | Moved text to Chapter 5, UIC design guidance |
| Section 4-6 | 4-77 | No | Edited text | Added text to refer to SWMMWW |
| | | | | |
| <u>Chapter 5</u> | | | | |
| Section 5-2.2.4 | 5-6 | No | Deleted text | Deleted language that was not relevant to designing stormwater systems. |
| Section 5-3 and 5.3.3 | 5-9 to 5-13 | Yes | Added text | Added text and Figure 5.3.1 to include LID BMPs to the BMP selection process. |
| Section 5-3.3 | 5-11 to 5-13 | Yes | Added text | Edited text to clarify language and guidance. |
| Section 5-3.6 | 5-18 to 5-20 | Yes | Added text | Added text and Figure 5.3.5.1 to include LID BMPs for the site development BMP selection process. |

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| Section 5-3.8.1 | 5-27 to 5-31 | No | Added text | Added text to describe maintenance concurrence and documentation requirements. Minor updates to general maintenance criteria. |
| BMP RT.02 Vegetated Filter Strips | 5-34 to 5-46 | No | Edited text | Updated BMP to include LID feasibility criteria. Moved CAVFS design criteria from Chapter 4 to this BMP in Chapter 5. Moved BMP text to follow consistent BMP description format for all BMPs. |
| BMP RT.04 - Biofiltration Swale | 5-47 to 5-60 | No | Edited text | Updated BMP to include LID feasibility criteria. Requires designer to use WSDOT spreadsheet for bioswale sizing. Edited level spreader, swale divider, and energy dissipater spacing and placement information and details. Updated BMP Figures. Edited text to clarify language and guidance. Moved BMP text to follow consistent BMP description format for all BMPs. |
| BMP RT.05 - Wet Biofiltration Swale | 5-61 to 5-65 | No | Edited text | Requires designer to use WSDOT spreadsheet for wet bioswale sizing. Added level spreader and swale divider spacing and placement information and details. Updated BMP Figures. Moved BMP text to follow consistent BMP description format for all BMPs. |
| BMP RT.06 - Continuous Inflow Biofiltration Swale | 5-66 to 5-71 | No | Edited text | Updated BMP to include LID feasibility criteria. Requires designer to use WSDOT spreadsheet for continuous inflow bioswale sizing. Updated BMP Figures. Edited text to clarify language and guidance. Moved BMP text to follow consistent BMP description format for all BMPs. Added the continuous inflow compost amended biofiltration swale (CICABS) as a LID BMP option. |

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| BMP RT.07 - Media Filter Drain | 5-72 to 5-85 | No | Edited text | Updated BMP to include LID feasibility criteria. Updated BMP Figures. Edited text to clarify language and guidance. Moved BMP text to follow consistent BMP description format for all BMPs. Updated MFD mix criteria. Added the 3-inch compost blanket option over the media filter mix section for weed control in non-phosphorous sensitive areas. Renamed MFD configurations to Type 1 - Type 7. |
| BMP RT.08 - Bioretention Area | 5-86 to 5-87 | No | Edited text | Updated BMP to include LID feasibility criteria. and moved BMP text to follow consistent BMP description format for all BMPs. |
| BMP RT.12 - Wet Pond | 5-88 to 5-98 | No | Edited text | Updated BMP Figures. Edited text to clarify language and guidance. Added steps to design wet pond outlet pipe. Revised vegetation guidance for wet ponds. Moved BMP text to follow consistent BMP description format for all BMPs. |
| BMP CO.01 - Combined Wet/Detention Pond | 5-99 to 5-104 | No | Edited text | Updated BMP Figures. Edited text to clarify language and guidance. Moved BMP text to follow consistent BMP description format for all BMPs. |
| BMP RT.13 - Constructed Stormwater Treatment Wetland | 5-105 to 5-116 | No | Edited text | Updated BMP Figures. Edited text to clarify language and guidance. Moved BMP text to follow consistent BMP description format for all BMPs. |
| BMP C0.02 - Combined Stormwater Treatment Wetland/Detention Pond | 5-117 to 5-120 | No | Edited text | Edited text to clarify language and guidance. Moved BMP text to follow consistent BMP description format for all BMPs. |
| BMP RT.22 - Oil Control Boom | 5-121 to 5-124 | No | Edited text | Edited text to clarify language and guidance. Moved BMP text to follow consistent BMP description format for all BMPs. |

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| BMP IN.01 - Bioinfiltration Pond | 5-125 to 5-129 | No | Edited text | Updated BMP to include LID feasibility criteria. Edited text to clarify language and guidance. Moved BMP text to follow consistent BMP description format for all BMPs. |
| BMP IN.02 - Infiltration Pond | 5-130 to 5-135 | No | Edited text | Updated BMP to include LID feasibility criteria. Edited text to clarify language and guidance. Moved BMP text to follow consistent BMP description format for all BMPs. |
| BMP IN.03 - Infiltration Trench | 5-136 to 5-147 | No | Edited text | Updated BMP to include LID feasibility criteria. Moved infiltration trench design criteria from Chapter 4 to this BMP in Chapter 5. Moved BMP text to follow consistent BMP description format for all BMPs. |
| BMP IN.04 - Infiltration Vault | 5-148 to 5-152 | No | Edited text | Updated BMP to include LID feasibility criteria. Edited text to clarify language and guidance. Moved BMP text to follow consistent BMP description format for all BMPs. |
| BMP IN.05 - Dry Well | 5-153 to 5-157 | No | Edited text | Updated BMP to include LID feasibility criteria. Moved dry well design criteria from Chapter 4 to this BMP in Chapter 5. Moved BMP text to follow consistent BMP description format for all BMPs. |
| BMP FC.01 - Natural Dispersion and BMP FC.02 - Engineered Dispersion | 5-167 to 5-185 | No | Edited text | Updated BMPs to include LID feasibility criteria. Edited text to clarify language and guidance. Moved BMP text to follow consistent BMP description format for all BMPs. |
| BMP FC.03 - Detention Pond | 5-186 to 5-199 | No | Edited text | Updated BMP Figures. Edited text to clarify language and guidance. Moved BMP text to follow consistent BMP description format for all BMPs. |
| Section 5-4.3.2 - Soil Amendments | 5-205 to 5-212 | Yes | Edited text | Updated BMP Figures. Edited text to clarify language and match guidance in the SWMMWW. |

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| Section 5-4.3.7 - Stormwater BMP Signing Requirements | 5-233 to 5-236 | No | Edited text | Updated BMP Figures. Edited text to clarify language and guidance. |
| Table 5.5.1 - Maintenance standards for detention ponds | 5-238 | No | Edited text | Revised tree harvesting guidance. |
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| Chapter 6 | | | | |
| Chapter 6 | All | No | Moved to TESC Manual | Entire contents moved to new <i>Temporary Erosion and Sediment Control Manual</i> to make it easier for designers and construction inspectors to use and to allow for timely updates consistent with the Construction Permit time lines. |
| <u>TESCM Changes from 2011 HRM Chapter 6</u> | | | | |
| Entire TESC | Entire TESC | No | Numerous editorial changes including, content moved, reorganized, rewritten to improve clarity and redundancies deleted. | To improve the clarity and flow of the content |
| Section 1-1 | 1-2 | No | added a description of the erosion process by water, sedimentation and erosion and sediment control BMPs | Added to be consistent with the content in the SWMM Volume II. |
| Section 1-1.1 | 3 | No | Added information about the Notice of Intent process | Informational |

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| Section 2-1.1 | 41400 | No | Added resources for creating a TESC plan | Informational |
| Section 2-1.2.1 | 19-20 | No | Clarified the difference between high pH stormwater that can be neutralized and discharged and the prohibited discharges. Also outlined what should be in the TESC plan and what should be in the SPCC plan for the "control pollutants" planning requirement. | Clarification |
| Section 2-1.2.1 | 22 -23 | Yes | Add 13th Element | Permit requirement |
| Section 3-1 | 27 | No | Add information about spill response on construction sites | Informational |
| Section 4-1 | 28 | No | Add information about how site monitoring should be used to identify potential problems before they become compliance issues | Informational |
| Section 4-1.1 | 28 | No | Add information about CESCLs | Informational |

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| Section 4-1.2 | 29 | No | Add information about how to be prepared for discharge sampling and reporting | Informational |
| Section 4-1.4 | 37-38 | No | Add information about site inspections and TESCplan adaptive management | Informational |
| Section 4-1.5 | 38-39 | No | add information about maintaining a site log book | Informational |
| Section 4-1.6 | 39-42 | No | Add a section with Miscellaneous reporting and compliance related issues | Needed a good place to put information that didn't fit well anywhere else. |
| Chapter 5 | 43-91 | No | Added some additional explanation of how BMPs should be used and added several BMPs from the SWMM Volume II | Improve and clarify Information |