











Appendix Index

Appendix	Description
<p>A. Glossary </p> <p>water.phila.gov /development/stormwater -plan-review/manual /appendices/a-glossary</p>	<p>List of key words or terms included in the text of the Manual.</p>
<p>B. Abbreviations </p> <p>water.phila.gov /development/stormwater -plan-review/manual /appendices/b-abbreviations</p>	<p>Compiled list and explanations of all abbreviations used in the Manual.</p>
<p>C. PWD Stormwater Regulations </p> <p>water.phila.gov /development/stormwater -plan-review/manual /appendices/c-pwd -stormwater-regulations</p>	<p>The Stormwater Regulations, presented in Appendix C, have been developed in accordance with the Philadelphia Code §14-704(3), and they consist of four major Post-Construction Stormwater Management (PCSM) Requirements: Water Quality, Channel Protection, Flood Control, and Public Health and Safety (PHS) Release Rate. In addition, all earth disturbance activity must comply with the Erosion and Sediment Control (E&S) requirements of the Pennsylvania Department of Environmental Protection, as specified in 25 Pa. Code §102.4. The objectives of these requirements include: Reduce pollution in runoff, Recharge the groundwater table and increase stream base flows, Restore more natural site hydrology, Reduce combined sewer overflows (CSOs), Reduce the quantity, frequency and duration of CSOs, Protect stream channels and banks, fish habitat and infrastructure from erosion and sedimentation, Reduce or prevent flooding in areas downstream of development sites.</p>
<p>D. Watershed Maps </p> <p>water.phila.gov /development/stormwater -plan-review/manual /appendices/d-watershed -maps</p>	<p>Watershed location plays an important role in identifying how the Stormwater Regulations, specifically the Post-Construction Stormwater Management Requirements, are applied to a project. Once the location of the development site is determined, Appendix D may be used to evaluate its Flood Management District and sewershed. If they are unable to confirm either, the applicant should contact Stormwater Plan Review.</p>
<p>E. Plan and Report Checklists </p> <p>water.phila.gov /development/stormwater -plan-review/manual /appendices/e-plan-and -report-checklists</p>	<p>Section 2.3 provides Review Phase Submission Package checklists as well as detailed guidance on the submission process. Appendix E includes checklists itemizing the submittal requirements of plans and reports required for Review Phase Submission Packages. By ensuring that plans and reports meet the requirements identified in each checklist, the applicant can streamline their project's Review Phase.</p>

<p>F. Design Guidance Checklists </p> <p>water.phila.gov/development/stormwater-plan-review/manual/appendices/f-design-guidance-checklists/</p>	<p>The Philadelphia Water Department’s Stormwater Plan Review Design Guidance Checklists, contained in Appendix F, are a supplemental list of guidelines for regulatory compliance, plan creation, hydrologic modeling and calculations, and the design of specific stormwater management practices. They are provided to assist in the formation of both sound, compliant stormwater management designs and complete Post-Construction Stormwater Management Plan (PCSMP) submissions. The designer should use the checklists as guidance during the design and calculation stages, or as useful quality assurance/quality control checks prior to PCSMP Review Phase submission.</p>
<p>G. SMP Maintenance Guide Documents </p> <p>water.phila.gov/development/stormwater-plan-review/manual/appendices/g-smp-maintenance-guide-documents</p>	<p>Appendix G contains an SMP Maintenance Guide sample and associated template documents. An SMP-specific, site-specific SMP Maintenance Guide, prepared by the designer and submitted to, and reviewed by, PWD during the PCSMP Review Phase, should be provided to and implemented by the property owner as a guide for long-term operations and maintenance of the SMPs on-site. SMP Maintenance Guide instructions are available on the first page of the SMP Maintenance Guide Information document to steer the designer through the creation of these items. The SMP Maintenance Guide must include a Site Map and a separate Maintenance Schedule Form for each SMP to allow the property owner to track all maintenance activities for their site. A sample of a compiled SMP Maintenance Guide is available in this Appendix for reference. SMP Maintenance Guidance One-Sheets are also available for each SMP detailed in this Manual in order to provide guidance on SMP maintenance activities and frequencies, including recommended SMP maintenance schedules.</p>
<p>H. Infiltration Testing Log </p> <p>water.phila.gov/development/stormwater-plan-review/manual/appendices/h-infiltration-testing-log</p>	<p>Appendix H contains a template log for documenting infiltration testing results. This Infiltration Testing Log includes guidance for documenting soil characteristics and is required to be completed and submitted as part of the Geotechnical Report during the Post-Construction Stormwater Management Plan Review Phase.</p>
<p>I. Plant Lists </p> <p>water.phila.gov/development/stormwater-plan-review/manual/appendices/i-plant-lists</p>	<p>Lists of native and recommended non-invasive plants and prohibited invasive plants and noxious weeds.</p>
<p>J. Construction Certification Package </p> <p>water.phila.gov/development/stormwater-plan-review/manual/appendices/j-construction-certification-package</p>	<p>It is important, both for the property owner and for the Philadelphia Water Department (PWD), to ensure that all stormwater management practices (SMPs) are constructed in strict accordance with the Approved Post-Construction Stormwater Management Plan (PCSMP). The Construction Certification Package (CCP) provides PWD with documentation that SMPs have been properly installed. Consisting of photographs, material receipts, and SMP Construction Certification Forms that must be customized by the design engineer prior to PCSMP Approval, the CCP must be kept on-site and completed by a registered professional during construction. Appendix J contains a description of the required CCP documentation and a collection of customizable SMP Construction Certification Forms to be populated with key information during construction and installation.</p>

<p>K. Record Drawing Sample water.phila.gov/development/stormwater-plan-review/manual/appendices/k-record-drawing-sample</p>	<p>Along with the Construction Certification Package, the Philadelphia Water Department (PWD) requires that Record Drawing(s) be submitted at the close of the project to ensure that the stormwater management practices (SMPs) and their elements were constructed in general accordance with the Approved Post-Construction Stormwater Management Plan (PCSMP), and to document any field changes. Record Drawing(s) are required for SMP verification and are a key component of PWD’s compliance reporting. Samples that demonstrate how Approved PCSMP plan sheets should be marked-up in order to prepare Record Drawings are provided in Appendix K.</p>
<p>L. Standard Details water.phila.gov/development/stormwater-plan-review/manual/appendices/l-standard-details</p>	<p>Typical construction details for several SMPs, including all of PWD’s highest-preference SMPs, such as bioinfiltration/bioretention basins, porous pavement, and green roofs, and for SMP-related structures, such as cleanouts, observations wells, and outlet control structures, are available for download in AutoCAD (*.dwg) format in Appendix L. These Standard Details incorporate design specifications pursuant to each SMP’s respective design and material requirements. The designer is encouraged, though not required, to use them for PCSMP creation when possible.</p>
<p>M. PCSMP Project Closeout water.phila.gov/development/stormwater-plan-review/manual/appendices/m-pcsmp-project-closeout/</p>	<p>Appendix M details the PCSMP project closeout procedure required of an applicant upon the conclusion of the project’s construction.</p>