SCP SUBMITTAL REQUIREMENTS

Projects that create and/or replace 5,000 square feet or more of impervious surface are required to submit a Stormwater Control Plan (SCP) in compliance with the San Francisco Stormwater Management Ordinance and San Francisco Stormwater Management Requirements and Design Guidelines (SMR). The SCP submittal is separate from documentation submitted to the Department of Building Inspection (DBI) for a Site Permit, or Building Permit. Please refer to the Typical SCP Project Review Process diagram on page 2.

- The SCP review process consists of two review stages: Preliminary SCP and Final SCP.
- An SCP Review Fee Form (and payment check) must be provided with each submittal.
- Prior to submittal of a Preliminary SCP, project teams must discuss the proposed stormwater management approach with project review staff at a Pre-Application Meeting.
- Project teams can submit a Modified Compliance Application prior to submittal of the Preliminary SCP (if applicable).
- DBI will not issue a Site or Building Permit until the SFPUC approves the Preliminary SCP.
- DBI will not issue a Certificate of Final Completion (CFC) and all Conditions of Approval are completed.

A complete Stormwater Control Plan should include the following per the SCP Table of Contents:

- SCP Review Fee Form (Submit Check to SFPUC’s Cashiers Unit)
- Section 1: Project Information Form
- Section 2: Project Narrative
- Section 2A: Separate Sewer Area BMP Selection Form (SEPARATE SEWER AREA ONLY)
- Section 3: Calculation Summary and Table
- Section 4: Stormwater Management Plan(s)
- Section 5: BMP Inspection Schedule
- Section 6: BMP Maintenance Schedule
- Section 7: Source Control
- Appendix A: Calculation Spreadsheets or Modeling Output
- Appendix B: Supporting Documentation
- Appendix C: Construction Document Drawings (excerpts related to stormwater management)

SCP SUBMITTAL TIMELINE

The SFPUC staff review SCPs, on a first come first serve basis, per the Typical SCP Project Review Process diagram (page 2). If your project elects to go straight to a DBI Building Permit, coordinate with the SFPUC to determine the most appropriate review and approval process. You must submit your Final SCP with all Preliminary SCP comments addressed prior to issuance of Building Permit.

Pre-Application Meeting: Coordinate with SFPUC to schedule a meeting early during the planning and team building process. Early coordination will minimize design issues that may not allow your Site Permit issuance.

Preliminary SCP: Submit concurrent with a DBI Site or Building Permit submittal.
- Submit Modified Compliance Application (if applicable) prior to Preliminary SCP submittal.
- Attached plans should reflect design level typical of a Site Permit (e.g. 100% DD).
- Project schedules should plan for the possibility of more than one Preliminary SCP submittal prior to approval.

Final SCP: Submit concurrent with the DBI Addenda process AND prior to any construction.
- Attached plans should reflect design level typical of a Building Permit (e.g. 100% CDs).
- Project schedules should plan for the possibility of more than one Final SCP submittal prior to approval.
TYPICAL SCP PROJECT REVIEW PROCESS

1. Pre-Application Meeting with SFPUC (Optional)
2. Submit Preliminary SCP
3. Project Review Process
   - Submit Modified Compliance Application (if applicable)
   - Comment on Preliminary SCP
   - Re-submit Preliminary SCP
4. Approve Preliminary SCP with Condition(s)
   - Remove Hold on Site or Building Permit
   - DBI Issues Site or Building Permit
5. Submit Final SCP
6. Project Review Process
   - Comment on Final SCP
   - Re-submit Final SCP
7. Approve Final SCP Pending with conditions
   - 1) Sign & Record MA
   - 2) Sign Certification of Acceptable Construction
8. Approve Final SCP Upon
   - 1) Proof of MA Recordation
   - 2) Submission of Signed Certification of Acceptable Construction
   - Remove Hold on Certificate of Final Completion (CFC)
   - DBI Issues CFC

Acronyms:
- MA – Maintenance Agreement
- SCP – Stormwater Control Plan
- SMO – Stormwater Management Ordinance
A complete SCP must include the following sections in sequential order. Refer to www.sfpuc.org/smr for all supporting materials (active hyperlinks to each document are also included throughout this section).

SECTION 1: PROJECT INFORMATION FORM

Include the completed Project Information Form at the front of the Stormwater Control Plan (SCP).

- The completed Project Information Form must be submitted with both Preliminary and Final SCPs.
- The SCP Table of Contents must be accurately completed and reflect the contents of the SCP.
- Justify all items that have been omitted from the SCP submittal in the space provided at the bottom of the Table of Contents.
- **Preliminary SCP submittal**: The Statement of Certification must include the applicant’s name and license number or unsigned stamp.
- **Final SCP submittal**: The Statement of Certification must include the applicant’s name and license number with a signed and dated stamp, and Additional Certifications must be checked.

SECTION 2: PROJECT NARRATIVE

Include a concise narrative describing the proposed project. At a minimum, the Project Narrative must:

- Summarize the EXISTING conditions and PROPOSED development project.
- Summarize the opportunities and constraints for stormwater management, including any site conditions checked in the Project Description of the Project Information Form.
- Discuss the proposed stormwater management approach for achieving the performance requirements. Include a summary of the process used to select each proposed stormwater control Best Management Practice (BMP).
- Describe how the LID Principles and Strategies (see SMR Chapter 4 Task 4) were assessed and implemented in the stormwater site design.
- Summarize BMPs in Series and how they function (if applicable).
- For sites proposing rainwater harvesting, summarize the cistern operation and describe how the components of the rainwater harvesting system (including collection, treatment, storage, reuse, and overflow) are incorporated into the overall site design. Also describe how rainwater harvesting is integrated into other nonpotable systems at the site.
- If the project will be phased, discuss the plan for phasing and how stormwater compliance will be met at each phase of the project.
- Provide short description of BMP operation and maintenance access.

SECTION 2A: SEPARATE SEWER AREA BMP SELECTION FORM

SEPARATE SEWER AREA PROJECTS ONLY: Complete the Separate Sewer Area BMP Selection Form for separate sewer area projects (for more information see SMR Chapter 6).
Provide a written Calculation Summary. This summary should clearly describe the stormwater BMP performance calculation methods and assumptions.

- Provide a written summary of the selected stormwater modeling calculation method(s), assumed design criteria, and data sources.
- For sites proposing rainwater harvesting, summarize the estimated water budget (i.e. on-site sources verses on-site demands).

Provide a Stormwater BMP Calculation Summary Table. This table should clearly show that the proposed overall design meets the performance requirements of the SMR. Refer to the Calculation Summary Table in the Example Stormwater Management Plan with Calculations for guidance.

- Combined Sewer Areas - Provide the following results for individual Sub-Watershed Areas and sum for the full site:
  - EXISTING peak flow rate (cfs) and total volume (cf)
  - PROPOSED peak flow rate (cfs) and volume reduction (cf)
  - REQUIRED percent reduction in peak flow rate and volume to meet the performance requirements (full site only)
  - ACHIEVED percent reduction in peak flow rate and volume (full site only)

- Separate Sewer Areas - Provide the following results for individual Sub-Watershed Areas and sum for the full site:
  - Total, treated, and untreated impervious area; treated area percentage (MS4 Calculator Step 4)
  - Total, treated, and untreated runoff volume from impervious surfaces; treated volume percentage. (MS4 Calculator Step 5)

SECTION 4: STORMWATER MANAGEMENT PLAN (SMP)

NOTE: The Stormwater Management Plan (SMP) must be a black and white document, as it will be recorded with the Maintenance Agreement.

Provide an SMP that is legible in 8.5x11 format, as a 8.5x11 hardcopy will be attached to the Maintenance Agreement. This drawing is not a construction document; it is a new drawing created solely for the SCP and for recording maintenance obligations. Confirm that the SMP coordinates with the attached Construction Document drawings. Refer to the Example Stormwater Management Plan with Calculations for guidance in creating a correct and complete SMP.

- Include title block with project name, address, owner’s name and contact information, designer’s name and contact, project phase, north arrow, and scale.
- Show as a compiled “birds-eye” plan including adjacent sidewalks (e.g. if there is a green roof on the 5th story and a biofiltration planter on the 2nd story, the SMP should show both). Also show adjacent roads, properties, and any areas contributing overland flow from outside or inside the project boundaries (as applicable).
- Show each proposed pervious and impervious surface type (including stormwater BMPs) with a distinct hatching type. Label all BMPs with an ID number (e.g. for vegetated roof, VR-01, VR-02, etc.). Use the same BMP ID number in the Maintenance and Inspection Schedules.

(cont. on the following page)
STORMWATER CONTROL PLAN - INSTRUCTIONS

SECTION 4: SMP (CONTINUED)

• If multiple sewer connections are proposed, clearly delineate and label all areas draining to distinct sewer connections, known as Sub-Watershed Areas (e.g. SWA-01, etc.). Provide a separate BMP Sizing Calculator for each Sub-Watershed Area.

• Within each Sub-Watershed Area, clearly delineate and label all Drainage Management Area boundaries (e.g. DMA-01, etc.) for the entire site, including uncaptured areas. Each DMA should include the portion of the project site that drains to a single BMP (or group of hydraulically connected BMPs) and the area of the BMP itself, or the portion of the project site that drains directly to the sewer system. Label the size of each DMA (square feet).

• Provide an Area Summary Table for each Sub-Watershed Area that is broken down into surface types (including BMPs) and DMAs. Present the data so that areas for whole site can be summed and easily cross-referenced with the Calculator Spreadsheet(s). Confirm that the Area Summary Table is coordinated with the SWAs and DMAs shown in the SMP.

• Provide a schematic piping layout for the project that includes all necessary information to clearly demonstrate the stormwater path of travel. Include roof slope break lines, area and roof drains, and downspouts; pipes from drains to BMPs and from BMPs to sewer connections; underdrains, cleanouts, and overflows associated with BMPs; and pipes from uncaptured areas to sewer connections. Provide flow direction arrows for sheet flow and pipe flow. Coordinate with the Civil and Plumbing CDs.

• Clearly show the overflow connection to the sewer system.

• Where relevant, show and label all key stormwater BMP setbacks that define areas of non-infiltration, as described in SMR Appendix C: Infiltration-based BMP Criteria.

• Provide a typical detail or section for each BMP type proposed, showing information necessary to confirm Calculation Spreadsheet inputs and show context within the site design. Details pertaining to constructability (e.g. liner attachments, wall penetrations, etc.) should be provided in the CDs.

• If rainwater harvesting is proposed, provide a cistern section showing tank dimensions; maximum and active volumes; inlet, outlet, float switch, and overflow elevations; and maintenance access (see RWH Checklist for more detailed requirements).

• For Final SCP Submittal: Include the electronic stamp of an engineer or landscape architect licensed in the State of California.

SECTION 5: BMP INSPECTION SCHEDULE

Complete the BMP Inspection Schedule Template provided in the Technical Report Templates or provide a custom Inspection Schedule for enhanced inspection requirements (e.g. for proprietary vegetated roof or rainwater harvesting systems, etc.).

• Refer to the Typical Inspection Activities in the SMR Appendix A: BMP Fact Sheets for recommended activities and frequency.

• Customize the recommended activities provided in the SMR to reflect the specific proposed design.

NOTE: The Final BMP Inspection Schedule(s) will be recorded with the Maintenance Agreement. Refer to the Maintenance Agreement Recordation Process memo.
STORMWATER CONTROL PLAN - INSTRUCTIONS

SECTION 6: BMP MAINTENANCE SCHEDULE

Complete the BMP Maintenance Schedule provided in the Technical Report Templates or provide a custom BMP Maintenance Schedule for enhanced maintenance requirements (e.g. for proprietary vegetated roof or rainwater harvesting systems, etc.).

- Refer to the Typical Maintenance Activities in the SMR Appendix A: BMP Fact Sheets for recommended activities and frequency.
- Customize the recommended activities provided in the SMR to reflect the specific proposed design.

NOTES: The Final BMP Maintenance Schedule(s) will be recorded with the Maintenance Agreement. Refer to the Maintenance Agreement Recordation Process memo.

The Owner is responsible for securing operation and maintenance funding for all BMPs constructed in compliance with the SMR. However, a description of the funding mechanism and annual maintenance cost is not required.

SECTION 7: SOURCE CONTROL

Complete the Source Control Template provided in the Technical Report Templates or provide equivalent.

- Check all applicable pollutant sources that may be present at the site along with corresponding structural and operational source control BMPs. Note that source control BMPs are not post-construction BMPs and do not need to be included in any construction drawings or maintenance materials in the SCP.
- Refer to the SMR Appendix A: BMP Fact Sheets for resources on required source control measures.

APPENDIX A: CALCULATION SPREADSHEETS OR MODELING OUTPUT

Calculation spreadsheets or modeling output should demonstrate that the SMR performance measures have been met by providing:

- Relevant stormwater calculations per the Accepted Hydrologic Calculation Methods memo, including but not limited to:
  - The SFPUC BMP Sizing Calculator(s) for Combined Sewer Areas and/or Separate Sewer Areas, or
  - Hydrologic model with input and output (e.g. SWMM, etc.).
  - Summary of design criteria and/or assumptions.
- Other Supporting Calculations (as needed):
  - Orifice control sizing calculations
  - Atrium grate peak flow rate capacity
  - Gravel storage volume for Infiltration Galleries
  - Under drain capacity (length)
As appropriate, include additional site-specific documentation to support the stormwater management design and assumptions. Only attach the pages relevant to compliance with the SMR and clearly identify relevant information for ease of review. Please do not attach full specifications, geotechnical reports, or manuals.

**Both Preliminary SCPs** and **Final SCPs** are required to include the following supporting documentation:

- Proposed BMP proprietary product information (e.g. cut sheets, link to manufacturer's Operations and Maintenance documentation, etc. - one or two pages)
- Boring log section of Soil Report, soil type description, and/or groundwater elevation data
- Soil contamination analysis results (if applicable)
- If the proposed infiltration-based BMPs do not meet the setback requirements outlined in the SMR Appendix C: Criteria for Infiltration-based BMPs, include signed letters from the geotechnical and/or structural engineer stating that they have reviewed and approved the proposed design.
- Infiltration testing results and test methodology are recommended with PSCP to minimize potential design change during FSCP (if infiltration BMPs are proposed)

**Only Final SCPs** are required to include the following additional supporting documentation (however, projects are also encouraged to include these in Preliminary SCPs if available):

- Infiltration testing results and test methodology (if infiltration BMPs are proposed)
- Project specifications excerpts. Include specific pages from the project specifications that relate to stormwater BMP materials or components, including aggregates, soils, green roof media, permeable paving, etc.
- BMP proprietary product sizing and/or specifications
- For projects proposing rainwater harvesting systems: copies of Non-potable Water Budget Application, SFDPH Engineering Report, and SFDPH system design approval letter.

**APPENDIX C: CONSTRUCTION DOCUMENT DRAWING EXCERPTS**

Attach Construction Document drawings that adequately depict the existing and proposed conditions and are relevant to compliance with the SMR. Please include the minimal number of sheets reproduced from the most recent set of construction drawings to clearly present the proposed stormwater BMPs. All drawings should include a project title block with submittal description (e.g. 100% DD, 100% CD, etc.) and date. **NOTE: For FINAL SCP, provide a digital stamp on all plans; wet stamp or signature NOT required.**

Relevant plans may include, as needed:

- **Cover Sheet:** Include the design drawing set Cover Sheet for reference.
- **Existing Conditions Plan (or Site Survey):** A clearly labeled site and topographic survey.
- **Site Plan:** Proposed layout of overall project site.
- **Materials Plan(s):** Proposed location of materials related to stormwater BMPs (e.g. permeable paving, landscaping, etc.).
- **Grading Plan(s):** (may be combined with Drainage Plan): Proposed grading with clearly labeled site contours, spot elevations, site slopes.
- **Sidewalk Improvement Plan(s):** As needed when stormwater BMPs are proposed in sidewalk ROW, per DPW permit requirements.
Please submit the following for each Preliminary SCP and Final SCP:

- **SCP Review Fee Form** with payment check made out to “San Francisco Water Power and Sewer” (Note: Payment is required by SFPUC ONLY) See our SCP Review Fee and Check Submittal Guidelines for more information regarding review fee submission.

- **One (1) Electronic Copy**: Submit as one collated PDF file of the SCP and SCP Review Fee Form. Provide means for SFPUC Project Review staff to download file via stormwaterreview@sfwater.org

Provide electronic SCP package as a single collated PDF file.

- Provide a ‘Bookmark’ for all SCP section headers that match the ‘Table of Contents’ provided in the SCP.
- Provide a ‘Page Label’ for CD sheets that match the sheet number provided on the drawing.
- Provide page orientation for on screen review (i.e. not sideways).
- Flatten and compress the PDF prior to sending.
- Submit via company FTP site (preferred), or SFPUC Sharefile site (if needed and requested).
- Provide electronic copy of the competed 'SCP Review Fee Form,' and copy of check if available.

**NOTE:** If the SCP is incomplete, not submitted in the required format, or payment has not been received, the SFPUC reserves the right to not accept the SCP and request that the Project Team resubmit.
SCP PREPARATION CHECKLISTS

To streamline the SCP review and approval process, the checklists below have been prepared for the Project Team’s internal use prior to submittal.

The SCP Preparation Checklists contain:

- Preliminary SCP Preparation Checklist
- Final SCP Preparation Checklist

Remember that each SCP is reviewed on a case-by-case basis and all line items in the Preparation Checklists may not apply to your particular project. A complete and carefully prepared SCP with proper QA/QC will reduce review time and increase the potential for approval.

FINAL SCP CONDITIONS OF APPROVAL

Final SCP Conditions of Approval (COA) include but are not limited to: a Certification of Acceptable Construction, a Post Construction Inspection, and a signed, recorded Maintenance Agreement. The COA may include other site-specific requirements. All COA requirements must be completed in order to receive SCP Final Approval and the DBI Certificate of Final Completion.

**Maintenance Agreement:** Prior to submittal of the Final SCP, the Project Team must initiate coordination of the Maintenance Agreement with the Owner using the Maintenance Agreement Template and the Maintenance Agreement Recordation Process Memo.

- **Determine appropriate Maintenance Agreement template**
  - Use the Maintenance Agreement Template for privately funded development projects.
  - Alternate Maintenance Agreement templates are available upon request for projects with special circumstances, such as Federal or CCSF funded/owned projects.

  **NOTE:** All plans and exhibits submitted with the Maintenance Agreement will be recorded and become part of the permanent record for the property.

- **Certification of Acceptable Construction:** A Certification of Acceptable Construction signed by the project’s stormwater designer (a Professional Civil Engineer or Registered Landscape Architect in California) must be submitted.

- **Post Construction Inspection:** Upon submission of the Certification of Acceptable Construction (CAC), the Project Team must coordinate and schedule a Post-Construction Inspection with SFPUC. The SFPUC will inspect all Stormwater BMPs recorded in the Final SCP/Maintenance Agreement, and will identify any construction deficiencies or deviations from the approved design. Any deficiencies found must be remedied by the Project Team. Following this, the Project will receive SCP Final Approval and DBI Certificate of Final Completion.