Checklist B: Technical Submittal Guide **Project Tracking #:** _____

Post-Construction Stormwater Management Plan

Checklist B is designed assist the Post Construction Stormwater Management Plan (PCSMP) review of development projects. A completed copy of Checklist B is required for all new PCSMP submittals. PWD technical review may not begin until a complete PCSMP submittal of the project is received.

A COMPLETED CHECKLIST B IS REQUIRED FOR ALL NEW PCSMP SUBMITTALS

Project Name: _____ **Primary Contact** _____

Project Address: _____

Development Type: _____ **Phone:** _____

Watershed 1: _____ **E-mail:** _____

Please indicate the Stormwater Requirements applicable to the project:

- ☐ Water Quality
- ☐ Flood Control
- ☐ Channel Protection
- ☐ Public Health and Safety (PHS) Rate
- PHS Rate: _____ cfs/acre
- ☐ Wissahickon Regulations

Please ensure that the following items are submitted as part of the Technical Submittal:

- ☐ **1** Hard Copy for Technical Review (Signed and Sealed by Registered Professional Engineer)
- ☐ **1** Hard Copy for Private Cost Contract (Signed and Sealed by Registered Professional Engineer) (only if needed)
- ☐ Electronic Files (copies of all sheets, stormwater management calculations and input files)
- ☐ $500 Post-Construction Stormwater Management Plan Fee (payable to City of Philadelphia Water Department)

Please ensure that the following information is provided on ALL plan sheets:

- ☐ Project name
- ☐ Revision dates
- ☐ Title of plan sheet
- ☐ Signature and Seal of Registered Professional Engineer (dated)
- ☐ Plan Scale (1" = 10', 20', 30', 40', 50', 60', or 100')
- ☐ North Arrow
- ☐ Legend

Please ensure that the following supporting documentation is included as part of the Technical Submittal:

- ☐ Project narrative
- ☐ Worksheets from the Philadelphia Stormwater Management Guidance Manual (Manual)
  - ☐ Worksheet 2: Directly Connected Impervious Area (DCIA)
  - ☐ Worksheet 3A: Water Quality, Channel Protection

☐ Worksheet 3B: Flood Control

☐ Worksheet 4: Operations and Maintenance Agreement Information

☐ Geotechnical and/or Infiltration Report (Signed and Sealed by Registered Professional)

☐ NPDES Permit (if applicable)

Please indicate where in the Technical Submittal the following information can be found:

For items 1-37: Clearly specify the plan sheet and/or page number of narrative where the requested information can be found or indicate why the information does not apply to this project.

1) Street lines and names

2) Lot names/lot identification numbers

3) Existing and proposed rights-of-way and easements

4) Existing and proposed topographic information

5) Limits of earth disturbance (delineations and area summary)

6) Existing and proposed building lines and impervious surfaces (delineations and area summary)

7) Existing and proposed utilities (location, size, and invert elevations)

8) Method of stormwater conveyance (pertinent pipe info, channel info, and/or overland flow)

9) Location, grading, and inlet and outlet invert elevations of all proposed SMPs

10) Details and sections of all SMPs, inlets, outlets, and other control structures

11) Locations of infiltration tests, soil borings, and fill areas associated with the Geotechnical/Infiltration Report

12) Hydrologic Soil Groups

13) Delineation and area estimate of drainage area to each SMP

14) Hydrologic flow direction lines

15) Time of concentration line and associated travel time calculations (for each drainage area)

16) Location of existing and proposed vegetation (delineations and area summary)

17) Types of vegetation in existing and proposed conditions

18) Bioretention system details, dimensions, and plant types

19) Estimated volume of debris

20) Description of disposal location

21) Location and extent of all clearing and grubbing (delineations and area summary)

22) Correct design rainfall depths and distribution (Tables 5.1 and 5.2 of the Manual)

23) Acceptable runoff estimation methods (NRCS Curve Number Method or Infiltration Loss Models)

24) Acceptable flow and storage routing methods (Section 5.3.4 of the Manual)

25) Routing calculations (travel time calculations and stage, storage, and discharge relationships)

26) Model input files

27) Infiltration calculations

28) If infiltration is infeasible:

(i) Infiltration Waiver Request

(ii) Phase I and/or II Site Assessment Report

(iii) Hotspot investigation report conforms to requirements in Manual (see Appendix A)

(iv) Subsurface stability report conforms to requirements in Manual (see Appendix C)

29) Location, grading, and inlet and outlet invert elevations of all E&S management practices and conveyance systems

30) Details and sections of all E&S management practices, inlets, outlets and other control structures

31) Delineations of preserved vegetation

32) Appropriate E&S checklists and worksheets (refer to PA DEP E&S Pollution Control Manual)

33) Description of E&S management practices: type, sizing, and location

34) Construction sequence

35) Stabilization techniques

36) Recycling/disposal estimate for waste materials

37) E&S Control O&M

Please ensure that the following E&S plan notes are provided on the E&S sheets:

38) ☐ An industrial waste permit will be required should pumping to City-owned infrastructure become necessary during construction.

39) ☐ Inlet protection should be provided for all inlets owned by PWD that are located within one block of the project site.

40) ☐ PWD is not responsible for any cleaning or repairs needed on City-owned infrastructure due to failure of any erosion and sediment control practices. (Indicate responsible party)

41) ☐ Inspection and maintenance of all erosion and sediment best management practices shall occur on a weekly basis, before any anticipated precipitation events, and after all precipitation events.

42) ☐ The maximum height for stockpiles areas shall be 35 feet.

43) ☐ The maximum side slope for stockpile areas shall not exceed 2:1.

44) ☐ The rock construction entrance thickness shall be constantly maintained on site. A stockpile shall be maintained on site for this purpose. At the end of each construction day, all sediment deposited on paved roadways shall be removed and returned to the construction site.

45) ☐ Filter fabric fence should be installed at level grade. Both ends of each fence section should be extended at least 8 feet upslope at 45 degrees to the main barrier alignment. Support stakes shall be spaced at a maximum of 8 feet. Sediment must be removed when accumulations reach 1/2 the above ground height of the filter fence.

46) ☐ Any fence section which has been undermined or topped must be immediately replaced with a rock filter outlet. Sediment must be removed when accumulations reach 1/3 the height of the outlet.