# State Water Infrastructure Authority

**Meeting Date – December 13, 2017**

**Agenda Item I – Stormwater Infrastructure Scope of Work Discussion**

The text below is taken from the "Priority Rating System Guidance and Form for Clean Water State Revolving Fund, Drinking Water State Revolving Fund, State Wastewater Reserve, and State Drinking Water Reserve Funding Programs."

## Category 1 – Project Purpose

### Line Item 1.F - Stream/Wetland/Buffer Restoration (GREEN Project)

*Wastewater: 20 points (CWSRF Only)* *Drinking Water: Not Applicable*

A project that will restore a stream, wetland, or buffer from its existing substandard state to a more natural state including vegetated buffers or soft bioengineered stream banks qualifies for 20 points under this Project Purpose, and is considered a GREEN Project that may be funded with a 0% interest CWSRF loan. Stream daylighting that removes natural streams from artificial pipes and restores a more natural stream morphology is included. The narrative must:

- Clearly describe the proposed project, and
- Include a map that shows the location of the project and the streams, wetlands, and/or buffers that will be restored

Projects may also qualify for Line Items 1.F.1 and/or 1.F.2 below for additional points.

Line Item 1.F.1 – Restoration of a first-order stream, including Stormwater Infiltration BMPs (GREEN Project)

*Wastewater: 5 points (CWSRF Only)* *Drinking Water: Not Applicable*

If the stream/wetland/buffer restoration project occurs along a first-order stream and includes stormwater infiltration Best Management Practices (BMPs), the project qualifies for additional points.

The narrative must discuss key considerations related to the feasibility of implementing the proposed BMP, as well as a map that shows the location and name of the first-order stream, the streams/ wetlands/buffers that will be restored, and the location of the stormwater infiltration BMPs.

Line Item 1.F.2 – Establishment or Restoration of Permanent Riparian Buffers to at Least 30 Feet on both sides of a Stream (GREEN Project)

*Wastewater: 5 points (CWSRF Only)* *Drinking Water: Not Applicable*

If the stream/wetland/buffer restoration project includes the establishment or restoration of the riparian buffer, the project qualifies for additional points. Establishment or restoration of a riparian buffer must include:

- Establishment of a buffer where one does not exist or restoration of existing vegetation in a buffer meeting the following criteria:
  - (i) Woody vegetation for zone one (30 feet) of the buffer, and
  - (ii) Woody or herbaceous vegetation for zone two (Zone 1 plus 20 feet) of the buffer.
- A minimum of 30 feet on each side of the stream must be protected. Note that the maximum buffer width that is eligible for funding is 50 feet on each side of the stream.
- The removal of all stormwater discharges through the buffer that are not associated with natural drainageways.

**Line Item 1.G - Stormwater BMPs to treat existing sources of pollution (GREEN Project)**
*Wastewater: 20 points (CWSRF Only)  Drinking Water: Not Applicable*

A stormwater project that provides for the construction and/or installation of Best Management Practices (BMPs) that treat existing sources of pollution qualifies for points under this Project Purpose, and is considered a GREEN Project that may be funded with a 0% interest CWSRF loan. The proposed BMPs are not required to meet all of the design criteria contained in the latest version of the NCDEQ Stormwater BMP Manual (BMP Manual); however, the narrative must include explanations as to why the criteria cannot be met (e.g., limited space within the existing watershed). The narrative must also:

- Clearly describe the existing sources of pollution
- If any future development will be served by the BMPs (in addition to existing sources), provide the percentage of impervious area that will be tributary to the BMPs for both future development (estimated) and existing development.
- Include a list of the potential types of BMPs to be used and the key considerations related to the feasibility of implementing each type of proposed BMP
- Include a map that shows the location of the proposed BMPs

Line Item 1.G.1 – Stormwater BMPs that Achieve Nutrient and Solids Reduction (GREEN Project)
*Wastewater: 10 points (CWSRF Only)  Drinking Water: Not Applicable*

Projects that qualify for additional points under this Project Purpose include BMPs or BMPs in series as specified in the latest version of the NCDEQ Stormwater BMP Manual (BMP Manual), which includes proprietary BMPs approved under the process described in the BMP Manual. The BMPs or BMPs in series must achieve the following reductions based on the BMP Manual requirements for regulatory credits:

- At least 35% total nitrogen, and
- At least 35% total phosphorus reduction, and
- At least 85% total suspended solids (TSS) reduction.

The narrative must:

- Specifically state that project will adhere to the Stormwater BMP Manual design requirements for regulatory credits,
- Include the calculation of pollutant credit removal efficiency for BMPs or for BMPs in series
- State the percentage reductions that will be achieved,
- If implementing an item that the BMP Manual lists for "possible" credits, include a letter from the NCDEQ Stormwater Permitting Unit that indicates the criteria needed to make the credits "actual", and
- If, due to existing site limitations only, BMPs are unable to meet the design requirements listed in the BMP Manual, include a letter from the NCDEQ Stormwater Program that indicates a reasonable expected percentage pollutant reduction.

**Note:** Stormwater conveyance alone is not eligible for points. Only that conveyance which is necessary to move stormwater to the BMP is eligible for points.

**Line Item 1.H - Reclaimed water/usage or rainwater harvesting/usage (GREEN Project)**

*Wastewater: 15 points (CWSRF Only) Drinking Water: Not Applicable*

To qualify for points under this Project Purpose, the project must produce and/or utilize reclaimed water, or be a rainwater collection and utilization project. This project is considered a GREEN Project that may be funded with a 0% interest CWSRF loan. A reclaimed water project may either be a new reclaimed water project, or the expansion of an existing reclaimed water system; however, the project must only consist of the equipment necessary to produce or provide reclaimed water (e.g., the project cannot include other WWTP upgrades or expansions, collection system facilities). The narrative must:

- Clearly describe the proposed project
- Include a map that shows the location of the existing and/or proposed infrastructure.

*Rainwater Harvesting/Utilization*

A rainwater harvesting project involves collecting rainwater from impervious surfaces such as parking lots and rooftops and utilizing the collected rainwater for non-potable purposes such as irrigation or vehicle washing. Note that the project may have multiple collection locations. In the narrative:

- Describe where the project will be located and the surfaces from which the rainwater will be collected,
- Discuss how the rainwater will be collected and stored (e.g., collected via rooftop gutters and stored in an underground cistern),
- Describe how the rainwater will be used,
- State the name of the entity responsible for ensuring that the rainwater will be utilized for the uses it is intended, and
- Include a map that shows the location of the surface(s) and building(s) from which rainwater will be collected, and the location of the rainwater storage infrastructure.