

Londonderry Township

MCM #5: Post-Construction Storm Water Management in New Development/Redevelopment Minimum Measures

- **Objective1:** Enforce an ordinance to require post-construction stormwater management from new development and redevelopment projects, including sanctions for non-compliance.
- **Objective2:** Develop and implement measures to encourage and expand the use of Low Impact Development (LID) in new development and redevelopment, including retrofitting LID into existing development.
- **Objective3:** Ensure adequate O&M of all post construction stormwater management BMPs that have been installed at development or redevelopment projects that disturb greater than or equal to one acre, including projects less than one acre that are part of a larger common plan of development or sale.

Londonderry Township, Dauphin County, PA is a township of approximately 5,200 residents that has been required to develop, implement, and enforce a stormwater management program in order to meet the requirements of the permit and ensure that controls are in place to prevent or minimize water quality impacts.

Minimum Measure Objective: The purpose of post-construction stormwater management within the Township is to minimize the impacts of construction activities on the watershed. The Township will implement these measures with the help of the Township Engineer, Township staff, and the County Conservation District. A schedule for inspection of installed stormwater BMPs will be set up, and a plan for long term maintenance will be established.

- **Objective1:** Enforce an ordinance to require post-construction stormwater management from new development and redevelopment projects, including sanctions for non-compliance.
 - Londonderry Township enacted ordinance Municipal Code Chapter 26 in 2021.
- **Objective2:** Develop and implement measures to encourage and expand the use of Low Impact Development (LID) in new development and redevelopment, including retrofitting LID into existing development.
 - Low Impact Development (LID) is a technique to reduce stormwater, and is one of the best construction practices available on the market. The Township will distribute education material on LID to all permit applicants. Specifically, materials about designs that reduce impervious surface area and impervious connections to the Township's MS4. LID can be a very effective technique in reducing stormwater and increasing infiltration.

- o **Accountability:** It is important to continuously re-evaluate the program to ensure that the best possible solutions and practices are being researched and presented to builders, contractors, and other permit applicants. The best management practice is to educate, inform, assist, and then enforce if necessary.
- **Objective3:** Ensure adequate O&M of all post construction stormwater management BMPs that have been installed at development or redevelopment projects that disturb greater than or equal to one acre, including projects less than one acre that are part of a larger common plan of development or sale.
 - o The Township holds a list of stormwater BMPs installed on public and private property from the beginning of their permit. In January of the current permit term, the Township will send notification letters to each BMP land owner explaining that an inspection will be conducted in the spring. This letter will also provide information about the type of BMP they currently have on their property. In April of the current permit term, an inspection will be conducted by MS4 staff and the Codes and Zoning Officer. Should the inspection require follow-up, staff will follow the Privately-Owned BMP Inspection Protocol.
 - o **Accountability:** Stormwater BMPs can be an effective tool in preventing erosion, slowing down water velocity, reducing sediment, and improving water quality. However, these stormwater BMPs must be properly maintained in working order to work as they were designed. This is precisely why a maintenance schedule should be established and followed. Encouraging self-compliance and education will be the focus of the Township office.
 - o **Measurable Goal:** The Public Works department will conduct at least two inspections of each structural control per year and conduct regular maintenance as prescribed for each type of practice. Records will be kept. Most stormwater controls have been identified and numbered, therefore Township staff can track frequency and location of inspections.
 - o **Justification:** The current inspection and maintenance schedule will be developed to maximize efficiency and minimize labor requirements. Easy to use spreadsheets will be developed including all necessary information. This reporting system can also be expanded to include other types of MS4 maintenance, including street sweeping, catch basin cleaning, storm drain flushing, etc.

Revised 1/8/2021.

Updated to better align with permit requirements 7/25/2019.

Updated to reflect current Township programs and abilities 6/10/2019.

No changes necessary.