

ADVANCING GREEN INFRASTRUCTURE TECHNICAL ASSISTANCE

OPEN TO ALL WEST VIRGINIA CHESAPEAKE BAY JURISDICTIONS

West Virginia's Chesapeake Bay Tributary Team and EPA are partnering to provide stormwater management assistance to communities within the Chesapeake Bay portion of the state, with a specific focus on green infrastructure to improve water quality and provide ancillary benefits to the community.

Green Infrastructure can do more than address Chesapeake Bay TMDL requirements and improve water quality. It can help improve local ***flooding issues***, contribute to ***source water protection*** and reduce ***combined sewer overflows (CSOs)***.

The Trib Team is seeking interested communities at any phase of green infrastructure development. Tetra Tech, the contractor providing assistance, can work with communities starting from scratch or those that already have an opportunity assessment or concept design. While all Chesapeake Bay jurisdictions in the state are eligible, funds are limited. Expressions of interest will be accepted through 01/25/19.

What is Green Infrastructure?

Green infrastructure (GI) seeks to manage stormwater runoff with more natural conditions. The guiding principles are managing stormwater runoff at the source and at the surface, using plants and soil to slow, filter, cleanse and infiltrate runoff and designing facilities that are simple, low-cost, and aesthetically enhance the community. GI manages more than just the peak runoff, it attempts to mimic predevelopment hydrology, reduce runoff, and provide multiple community benefits. Designs use vegetated practices, such as trees, natural areas, bioretention, raingardens, and other features such as pervious pavement and cisterns.



Available technical assistance includes:

Green infrastructure planning opportunity assessments

In addition to providing nutrient and sediment reductions that improve Chesapeake Bay water quality, GI may be used to mitigate flooding, reduce the volume of CSOs, and provide source water protection. To begin planning specific strategies to advance GI, a workshop with community stakeholders can be held. The meeting will allow stakeholders to learn more about GI design and possible GI features to address the stormwater issues facing the community. Feedback on local stormwater management issues and locations in the community will be obtained and potential GI solutions introduced. Tetra Tech will further assess local problem areas by site visit and desktop analysis and seek community input on location priorities and preferred BMPs.

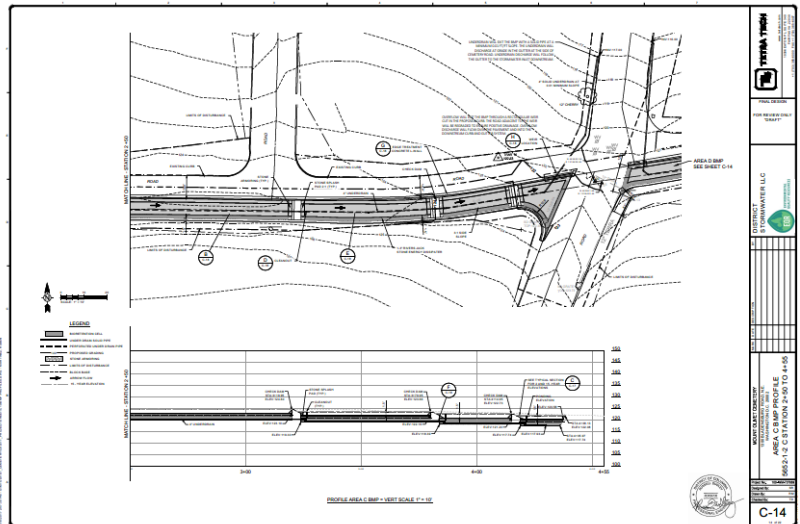
Concept design plan development

Using the results of an opportunity assessment, Tetra Tech can develop site layout(s), preliminary drainage areas, construction cost estimates, and estimates of the Chesapeake Bay credit and mitigation of local impacts that will be realized. A concept design provides an initial plan for implementing green infrastructure and can be shown to stakeholders to gain acceptance for future projects. Opportunity remains for additional input and modification prior to full design.



Full engineering project design for GI projects

Tetra Tech can expand an existing concept design to a full design that is ready for construction. Full design includes street plans, drainage layout, BMP detail sheets, draft planting lists, estimated construction costs and a BMP maintenance plan. Nutrient and sediment reduction credits for Chesapeake Bay TMDL implementation and local impact results will be determined.



GI implementation funding application assistance

Tetra Tech can assist communities with identifying and applying for grants, loans and other funding to support the construction and implementation of GI projects. Technical project details can be provided as well as general assistance needed to complete applications.

For more information, contact Alana Hartman, Potomac Basin Coordinator,
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