

BOROUGH OF CHAMBERSBURG

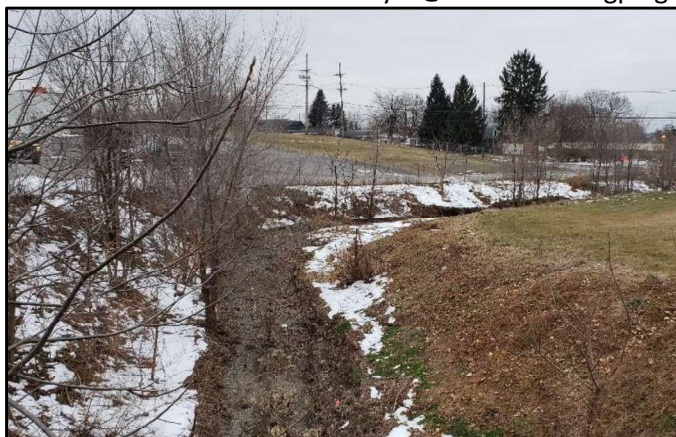
SOUTH MAIN STREET STORMWATER BMP IMPLEMENTATION PROJECT

EXHIBIT 6: PROJECT SUMMARY

The Borough of Chambersburg's (Borough) Municipal Separate Storm Sewer System Department (MS4 Department) desires to continue its success of improving and restoring waterways that traverse the Borough. In 2018, the MS4 Department completed the Rhodes Drive Reconstruction and Stormwater BMP Implementation project – the MS4 Department's first storm sewer project to incorporate DEP-recognized BMPs. This project minimized the stormwater volume that discharged into the Falling Spring Creek by disconnecting the impervious surface of the street from the existing storm sewer system and re-directing runoff to a bio-retention area adjacent to Rhodes Drive. The Borough is working to advance several other stormwater BMP projects to meet nutrient and sediment load reductions outlined in its DEP-approved Chesapeake Bay Pollutant Reduction Plan (PRP).

The success of the Rhodes Drive Reconstruction and Stormwater BMP Implementation project inspired the Borough to continue efforts to protect the Chesapeake Bay. It identified an infrastructure deficiency - a deteriorating stormwater conveyance - located at the southern end of the Borough, proximate to Main Street. The stormwater conveyance was of particular concern, as flow from this area ultimately discharges to the Conococheague Creek and into the Chesapeake Bay. ***The South Main Street Stormwater BMP Implementation Project, the focus of the Growing Greener grant, involved the conversion of an eroding stormwater conveyance into a vegetated swale that stabilized the embankments of the conveyance, and provided significant water quality benefits.*** To reduce further sedimentation and erosion occurring as a result of fast-moving stormwater, the scope of work included the installation of matting, rip-rap aprons, and bank stabilization; vegetated plantings to include shrubs and seedlings; and rock dissipators. It was estimated that this project would achieve a reduction of approximately 20,960 pounds (5% of the Borough's total sediment reduction) of total suspended solids per year and assist the Borough in meeting the requirements of its approved PRP. ***After running an updated watershed to the drainage conveyance after the Project was completed, the Borough achieved a reduction of 80,938 pounds per year.***

The Borough utilized Growing Greener funds in the amount of \$200,000 to help fund the Project. The Borough provided \$63,202.50 in matching funds to bring the Project to completion. For more information about the project, please contact the Borough's Storm Sewer Systems Manager, Andrew Stottlemeyer at 717.251.2434 or at astottlemeyer@chambersburgpa.gov.



Above: Falling Springs Creek in the Borough of Chambersburg, pre-construction, early 2023. **Right:** Falling Springs Creek, post construction, June 2023.