4. Stream Assessment

A comprehensive stream assessment was completed by the PSWCD using the Rapid Assessment of Stream Conditions Along Length (RASCAL) tool, which is one way to gain firsthand knowledge of the existing conditions in a stream. This tool allows priority areas in the stream to be identified for targeted conservation practices. These practices would reduce pollutant loading by amending adjacent land use, restoring habitat, and stabilizing banks. Data was collected including observed gullies, exposed utilities, tile outfalls, and storm sewers. A GPS camera was frequently used to document these points of interest and keep track of stream conditions.

The stream assessment was broken down into the three subwatersheds, as shown in Figures 4-1, 4-2, and 4-3. Each figure shows the portions of the stream that are stable or eroding and to what degree. All three subwatersheds show large portions of erosion and very few stable areas. The red areas, showing severe erosion, are the priority areas of concern. Section 6 discusses the implementation of the priority areas.

The PSWCD also conducted assessments on sediment delivery and Revised Universal Soil Loss Equation (RUSLE). These maps can be found in Appendix F.
Figure 4-1: Bank Stability on Upper Fourmile Creek Watershed
Figure 4-2: Bank Stability on Middle Fourmile Creek Watershed
Figure 4-3: Bank Stability on Lower Fourmile Creek Watershed