

The study area for the South Metro Mississippi TMDL encompasses the entire municipality. Using the MPCA Simple Estimator tool, land uses were entered for the entire jurisdictional area to determine TSS loads. The existing TSS loading rate is 112 lbs/ac/yr, meeting the WLA of 154 lbs/ac/yr.

The TMDL study area for Vermillion River TSS TMDL encompasses the southcentral area of the municipality based on the MPCA shapefiles from the ShareBase. Vermillion River TSS is an individual WLA within Lakeville. Lakeville has a WLA of 331.36 lbs/day or a 9% reduction. Using the MPCA Simple Estimator tool, land uses were entered from the TMDL study area to determine an initial load of 2,524 lbs/day. By including BMPs within the TMDL boundary in the MPCA Simple Estimator, the load was reduced to 1,102 lbs/day. Also considering recently implemented water quality projects within the watershed, an overall loading of 328 lbs/day was determined, which is less than the TMDL WLA. Accordingly, the total cumulative estimated reduction from the existing load calculated via the MPCA Simple Estimator tool to the BMP adjusted load is 2,196 lbs/day showing a reduction of 87%.

The TMDL study area for Vermillion River East Lake TP TMDL encompasses the northeast corner of the municipality based on the MPCA shapefiles from the ShareBase. Using the TMDL study, an initial total phosphorus load of 94.1 lbs/year was determined for the study area. Considering additional BMP practices implemented in the study area, the final TP loading rate is 38.2 lbs/yr resulting in a 59% reduction. The WLA calls for a 47% reduction, indicating that the 50.3 lbs/yr WLA has been met.