The surficial geologic map of the Sixmile Creek quadrangle identifies earth deposits, unconsolidated materials, rock and structural features along the Clearwater River and its tributaries. The map is one of a series developed by the Idaho Geological Survey to provide geologic descriptions and to serve as a basis for future studies of the area's natural resources and potential hazards. The map units were identified by field investigation and remote sensing techniques, and are correlated with the National Geologic Framework of Idaho (NGFI) through the application of digital data sets, including the Soil Survey Geographic (SSURGO) database and the Idaho Surficial Geologic Framework (ISGF). The surficial geologic map is useful for understanding the distribution and extent of surficial deposits, as well as for assessing the potential for geotechnical hazards such as landslides, debris flows, and colluvium. The map also provides a framework for assessing the potential for groundwater recharge and contamination, as well as for assessing the potential for natural gas and petroleum resources. The surficial geologic map is a valuable tool for a variety of applications, including environmental planning, land use planning, and site selection for construction projects.