
VI-D: Management Segment 4 (CR 12 South Street to Vogatz Property)

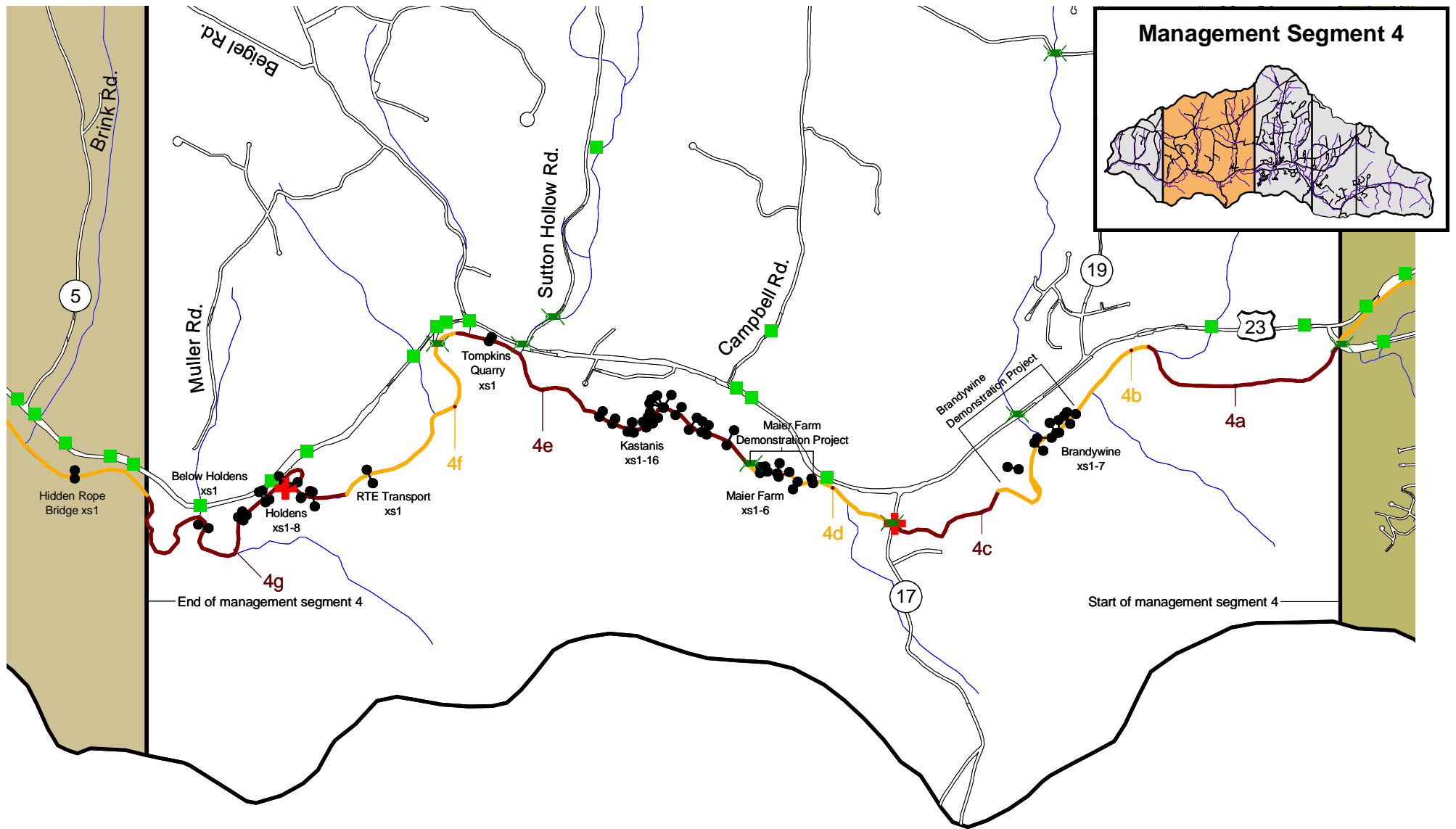
Management Segment 4 begins at County Route 12 (South Street) and continues through the Town of Ashland ending approximately 1 mile west of the Ashland Hamlet (**Map VI-5**). The overall segment length is approximately seven miles. The drainage area of the segment ranges from 41mi² at South Street, to 62mi² at the bottom of the reach. The management segment is located entirely in Valley Zone 2 (**Figure V-11**), and contains the flattest valley slopes (0.3%) in the watershed. The valley is very broad,



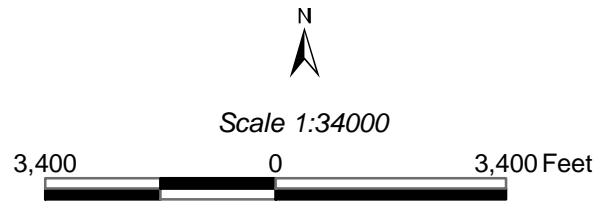
which provides the Batavia Kill extensive area for meander adjustments. It has wide floodplains, multiple river terraces, and remnant deltas along the valley walls. The valley also exhibits modifications caused by glaciers, with lateral and terminal moraines. The stream planform consists of irregular and distorted meanders, as evidenced by natural and manmade features along the stream.

A Phase I Inventory and Assessment, coupled with an analysis of a time series of aerial photographs, indicated that management segment 4 exhibits extreme levels of streambank disturbance, with the highest rates of bank erosion per unit stream length within the watershed. The management segment averaged more than 4 ft² of exposed streambank for each linear foot of stream, and with more than 45% of the segment's streambanks exhibiting some form of departure from a naturally stable form. The magnitude of instability is demonstrated by the fact that management segment 4 contained six of the top ten most severely eroding streambanks in the watershed. An analysis of aerial photographs between 1959 and 2000 revealed that management segment 4 has experienced active channel adjustments and changes in channel planform for at least the past 40 years.

Management segment 4 was further sub-divided into seven reaches to facilitate further data collection and analysis. Delineation of each reach was based upon physical stream changes and the level of disturbance inventoried during the Phase I Inventory and Assessment. Based on the Phase I assessment, the GCSWCD determined that extensive monitoring was necessary to evaluate on-going stream processes in several areas within the segment. The GCSWCD initiated Phase III/IV monitoring at a total of five sub-reaches within the management segment.



- Cross Section (xs)
- ✕ Bridges
- Culvert
- ⊕ Gage
- ▬ Management Reach 4a, 4c, 4e, 4g
- ▬ Management Reach 4b, 4d, 4f
- Management Segments
- ▬ Streams
- ▬ Roads



Batavia Kill Watershed
Segment 4 Management Reaches
 Map VI-5
 Greene County Soil & Water Conservation District
 Batavia Kill Stream Management Plan

Management Segments & Reaches-GCSWCD, based on management segments and reaches detailed in Batavia Kill Stream Management Plan.
 Map produced by Greene County Soil & Water Conservation District, January 2002.
 Note: GIS data are approximate according to their scale and resolution.
 They may be subject to error and are not a substitute for on-site inspection or survey.
 Data sources are located in list of figures, tables, and maps.