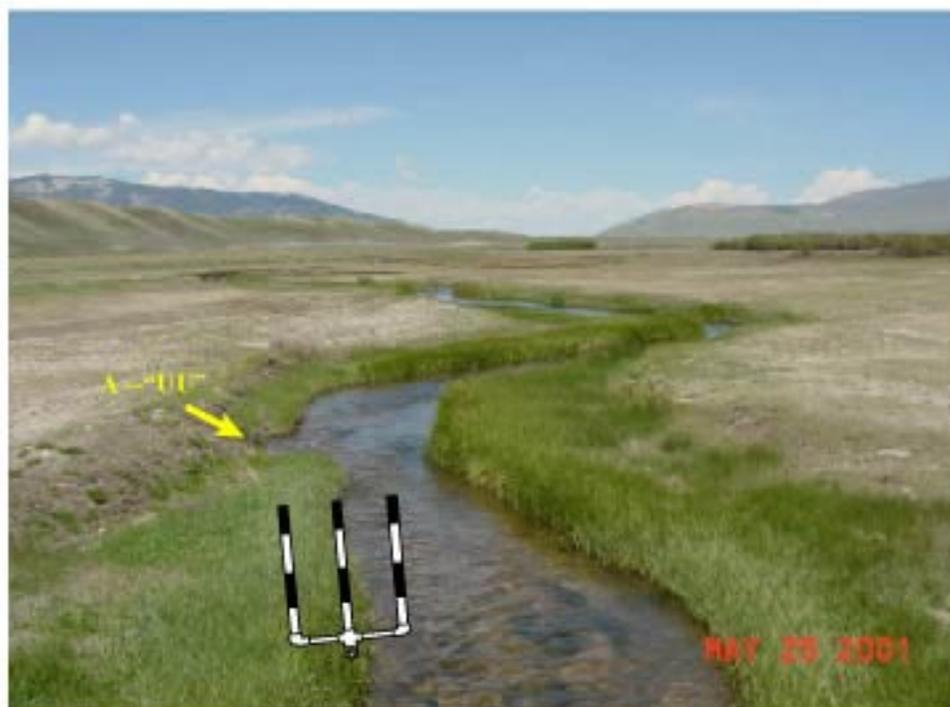
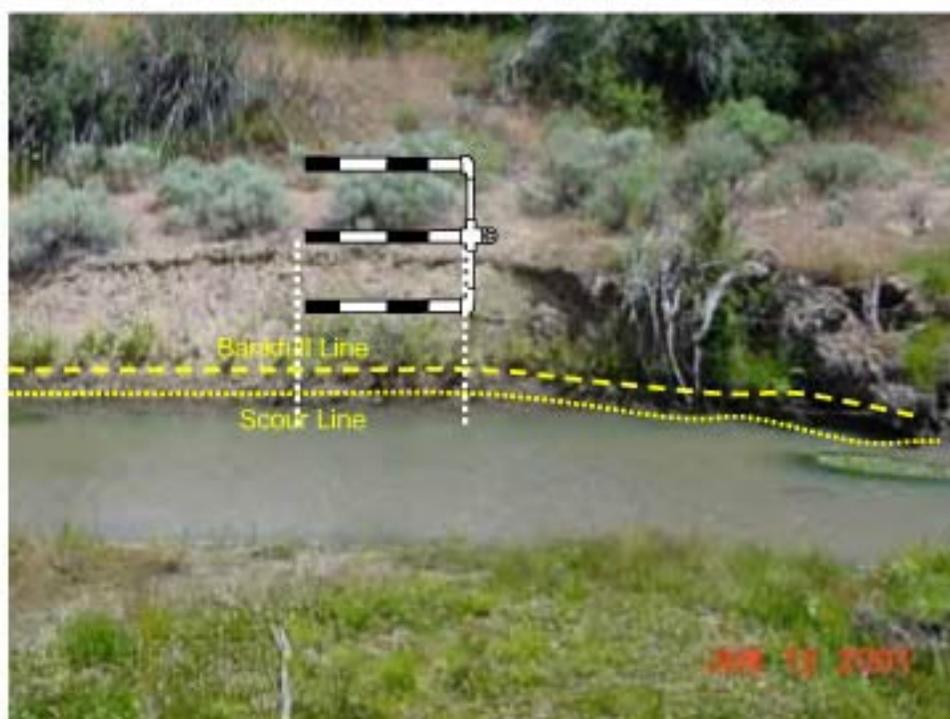


## APPENDIX E—Streambank Stability Examples

Examples in this appendix provide some streambank stability scenarios. They should be used jointly with Appendices A and B and the descriptions provided in body of the protocol.



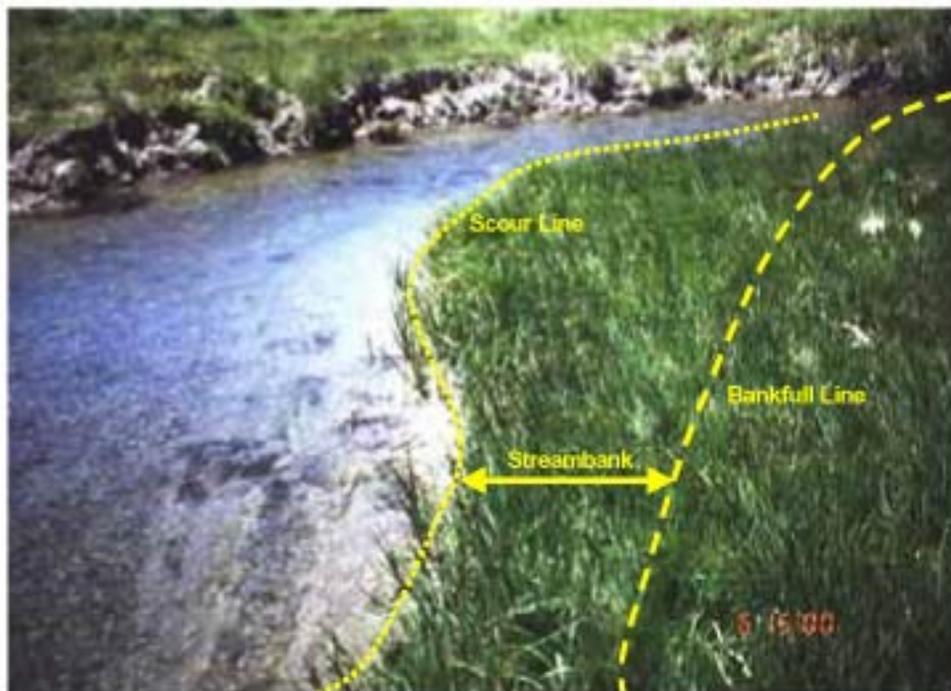
**Figure 1**-- Streambanks and floodplain covered with sedges and rushes, covered/stable, IIB 1a (1a). Note A is a small area of "uncovered/unstable" IIA 2a (2)(b)



**Figure 2**—The scow line as at the base flow and the bankfull line is near the perennial vegetation line. This bank is classified as uncovered/unstable, IIB 1a (2a).



**Figure 3**—“A” is an erosional bank with little cover, uncovered/unstable (IIA 2a (2)(a)). “B” is an erosional bank composed of bedrock, covered/stable (IIA 2a (1)(a)). “C” is a depositional streambank with non-continuous, weak-rooted, perennial pioneering vegetation (*Alopecurus aqualis*, short-awned oxtail), uncovered/unstable (IIA 1a (2))



**Figure 4**—The streambank to be evaluated is between the scour line and the bankfull line. There a distinct change in the bank angle just below the bankfull line. This bank is covered/stable (CS), IIA 2a.



**Figure 5**--Streambanks covered with perennial sod-forming Kentucky bluegrass and low vigor Nebraska sedge and willows, covered/unstable (IIA 2a (1)(b)).



**Figure 6**--Slump blocks above the scour line. Vegetation on the blocks is upland and not considered deep-rooted. IIB 2b (2)



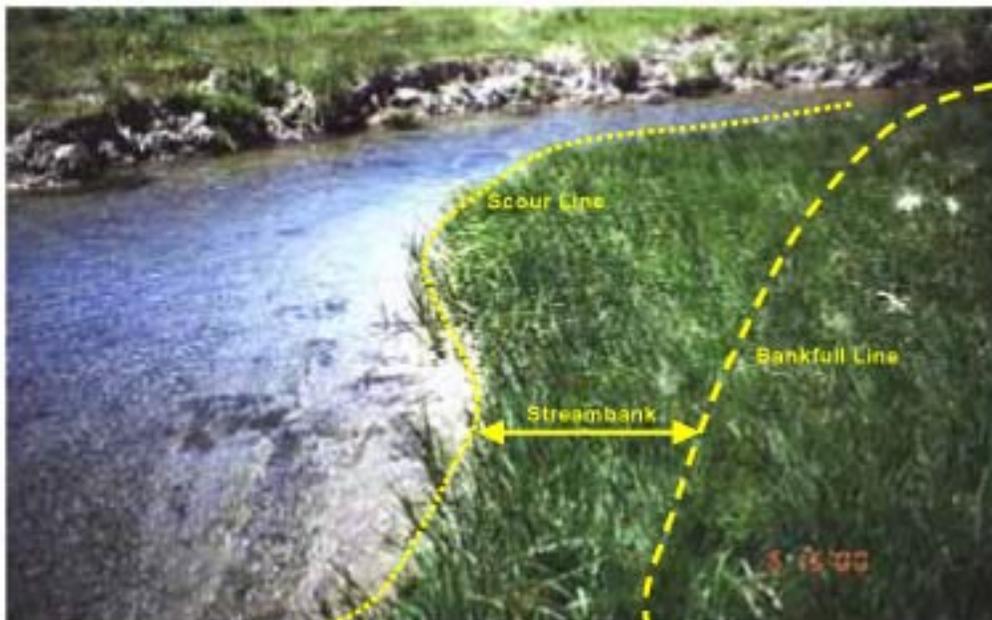
**Figure 7**–Left bank is not covered and the consolidated soil has resulted in a bank slope that is greater than 10 degrees from vertical, uncovered/stable ( IIA 2a (2)(b)). The right bank is covered with a continuous line of vigorous deep-rooted riparian vegetation, covered/stable (IIA 1b (a)).



**Figure 8**–Point bar with continuous line of perennial deep-rooted vigorous vegetation at least one foot wide, covered/stable (IIB 1b (1)(a))



**Figure 9**—Slump block features below the scour line and not considered part of the streambank. Cracks or fractures are above the scour line, uncovered/unstable (IIA 2b (2)).



**Figure 10**—The streambank to be evaluated is between the scour line and the bankfull line. There a distinct change in the bank angle just below the bankfull line. This bank is covered/stable (CS), IIA 2a.



**Figure 11**—The scour line is at the base flow level. The streambank is between the scour line and the bankfull line. There are a number of fracture features along the stream. The streambank has fracture features with the slump blocks no longer attached. “A” is covered/unstable (CU), IIB 1a (1b).



**Figure 12**—False bank is a slump block that is reattached and with vegetative cover.



**Figure 13**—Slump block reattached and vegetated. It is classified as a false bank and is covered/stable CS.