

**APPENDIX F**  
**Streambank Alteration**

**Streambank Alteration Key**

- A. Streambanks have a relatively continuous cover of perennial vegetation (at least on one side of the greenline).
  - a. Hoof prints expose little or no bare soil and/or roots (less than 12 mm [ $\frac{1}{2}$  inch]) ..... No Alteration
  - b. Hoof prints expose bare soil and/or roots (more than 12mm [ $\frac{1}{2}$  inch]) ..... Alteration
- B. Streambanks have a broken cover of perennial vegetation or are barren of vegetation (at least on one side of the greenline)
  - a. Soils on the streambank is not compacted
    - i. Hoof prints are less than 12 mm ( $\frac{1}{2}$  inch) deep from the bottom of the impression to the top of the displaced soil..... No Alteration
    - ii. Hoof prints are at least 12 mm ( $\frac{1}{2}$  inch) deep from the bottom of the impression to the top of the displaced soil..... Alteration
  - b. Soils on the streambank are compacted by large herbivores and/or with hoof print(s) on the compacted soil even if less than 12 mm ( $\frac{1}{2}$  inch) deep .... Alteration



**Figure 1**—The greenline is along the orange dashed line. To the right of the dashed line is the relatively continuous stand of perennial vegetation (mostly Kentucky bluegrass). To the right of the dashed line is trampled bare ground and broken vegetation cover.

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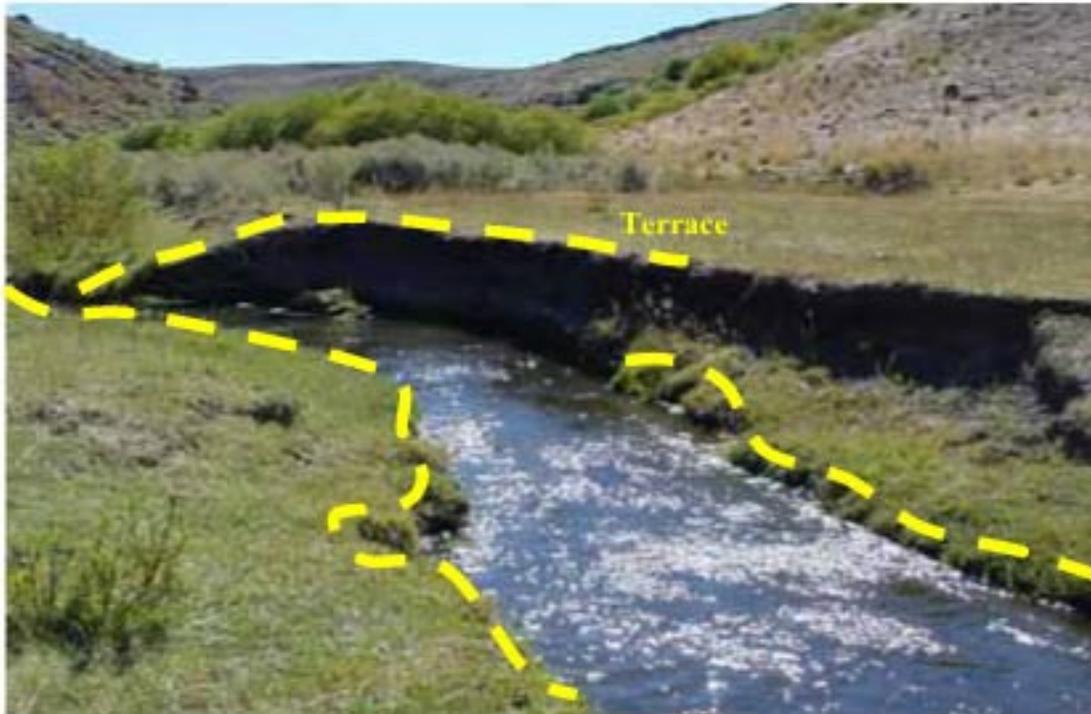


**Figure 2**—The greenline follows the dashed yellow line. The lineal grouping of perennial has over 50% vegetative cover.



**Figure 3**—Greenline along an eroding streambank, shearing is evident.

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**Figure 4**—Livestock trampling top of the terrace (areas above the active floodplain) is not considered streambank alteration, except if livestock are trampling along the base of the streambank or shearing on the terrace wall. Stubble height measurements are not taken on the top of the terrace. Continue the transect until the hydric species are encountered.

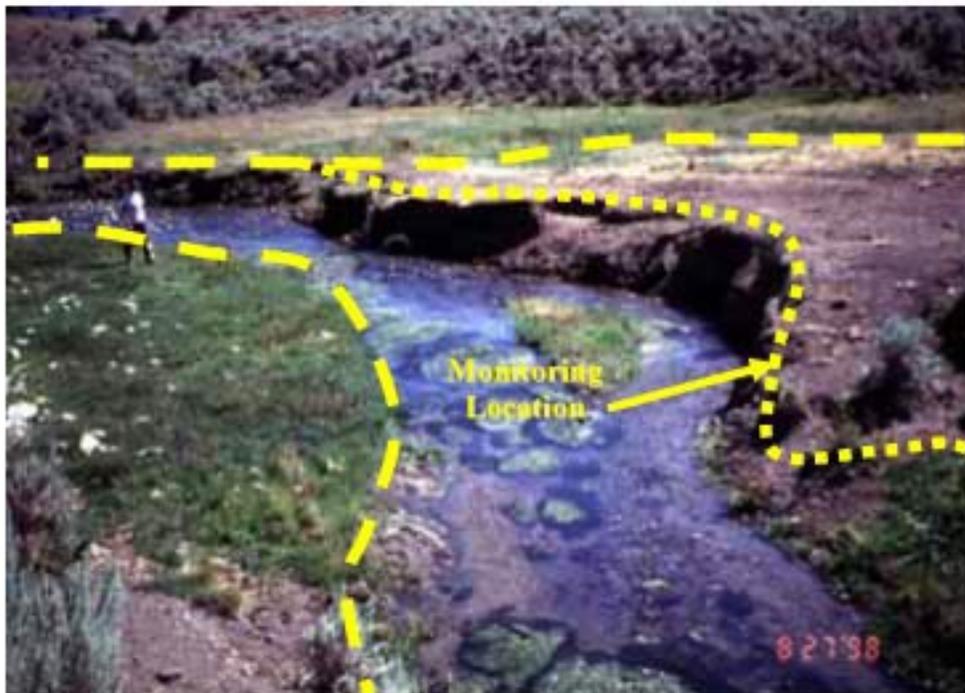


**Figure 5**—Trampling along the green line (dashed line). Note trampling along the base of the vertical terrace wall (arrows). Record as such.

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**Figure 6**—Livestock trail crossing the stream would be recorded as trampling even though the prints are less than  $\frac{1}{8}$  inch deep, due to compaction. Note the approximate bankfull line (dashed line).



**Figure 7**—The greenline is located away from the streambank because only annual vegetation is located along the streambank. The fine dashed line shows the transect location.

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**Figure 8**--Shearing is along the terrace wall and bank trampling has occurred and is recorded as such.



**Figure 9**—The greenline is below the water surface as the stream is above the base flow level. Note the greenline shifts from the terrace to the streambank where there is adequate vegetation

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**Figure 10**—The water level is above bankfull, thus the greenline is in the water. Moving from right to left, the greenline follows the edge of the terrace until it reaches the vegetation along the water edge, it then shifts along the water's edge until it reaches the open area. It then shifts to back to the terrace, and then back to the water's edge.



**Figure 11**—Vegetation along stream has more than 50% vegetation cover and area of at least 50% of the quadrant.

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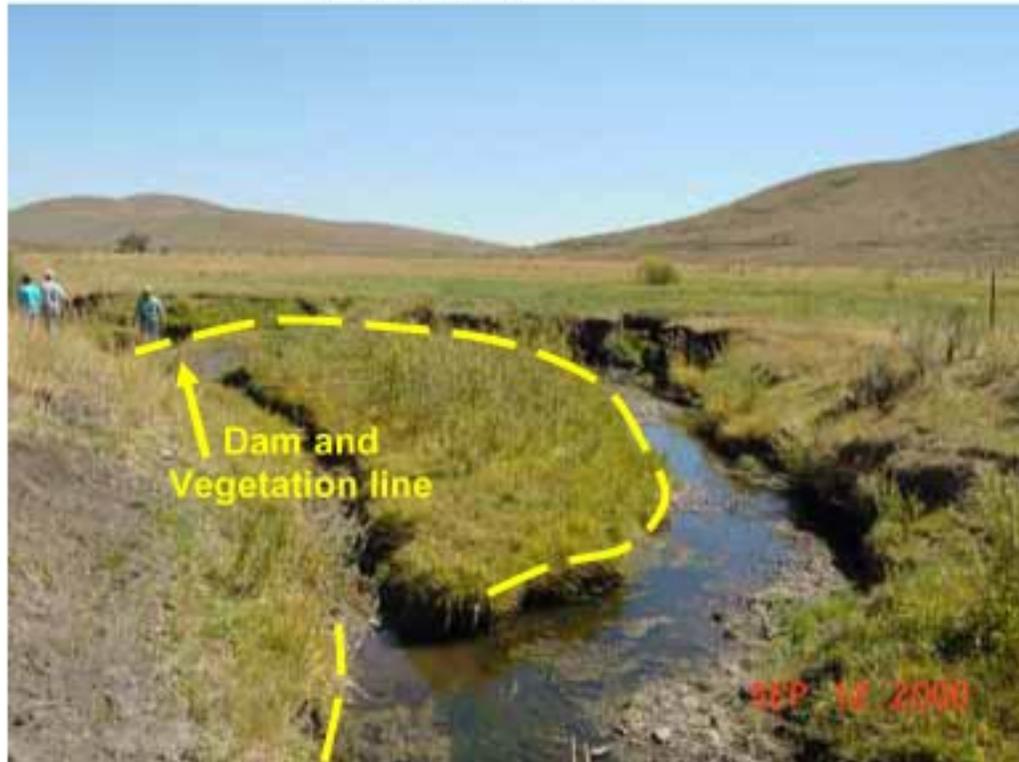


**Figure 12**—Slump block detached from the streambank. The greenline follows the line of perennial vegetation on the bank at the higher level.



**Figure 13**—The slump feature is reattached to the streambank, thus the greenline is along the water's edge.

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**Figure 14**—The greenline follows the vegetation line along the main channel because there is a dam and vegetation bridge at the lower end of the point bar. If an active channel continued creating an island, the greenline would follow the smaller channel and not on the island.



**Figure 15**—Vegetation in the stream channel is an island. The greenline remains at the edge of the terrace.

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**Figure 16**—the greenline is near the water below bankfull narrowing the channel. The low water is a result of the drought conditions for past five years. Vegetation in the water is expanding from rhizomes and is less than 50% cover.