

# Neversink River East Branch

## MANAGEMENT UNIT 8

### Summary of Post-Flood Recommendations

<b>Intervention Level</b>	Active restoration of the bank erosion site between Station 30700 and Station 30500. (BEMS NEB8_30500)
<b>Stream Morphology</b>	No change.
<b>Riparian Vegetation</b>	Improve riparian buffer between Station 30700 and Station 30500.
<b>Infrastructure</b>	No change.
<b>Aquatic Habitat</b>	No change.
<b>Flood Related Threats</b>	No change.
<b>Water Quality</b>	None.
<b>Further Assessment</b>	No change.

### Stream Channel and Floodplain Current Conditions

The following description of stream morphology is the result of a survey conducted in December, 2011. “Left” and “right” references are oriented looking downstream, photos are also oriented looking downstream unless otherwise noted. Stationing references, however, proceed upstream, in feet, from an origin (Station 0) at the confluence with the Neversink Reservoir. Italicized terms are defined in the glossary.

EBMU8 begins downstream of a convergence with a retention pond drainage channel. As the stream continues through the upstream end of this management unit, it meanders slightly to the right and flows up against the embankment of Denning Road on the right. The narrow riparian buffer between the road and the stream does not provide enough deeply rooted vegetation to adequately stabilize the stream bank under higher flows. As a result, hydraulic pressure during large events is causing approximately 167 feet of erosion on the right bank between Station 30700 and Station 30530 (BEMS NEB8\_30500). Since the recent high flow events this eroding bank segment has become more severely undercut, with fewer signs

of self-stabilization. Due to the close proximity of Denning Road, assisted restoration is recommended for this site including using of bioengineering techniques and establishment of a riparian buffer to reduce near-bank velocities and shear stresses during future high flow events. A potential source of root wads for use in this restoration effort was document between Station 3200 and Station 30800 in Management Unit 9 upstream.



*Eroding bank segment adjacent to Denning Road. (IMG1615)*