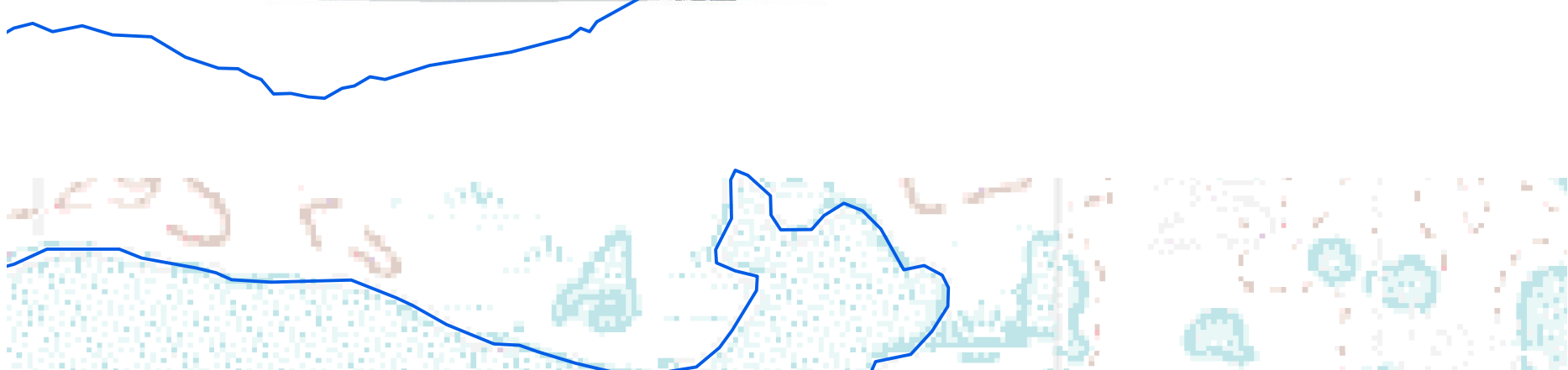


# Newtok Shoreline Erosion Map

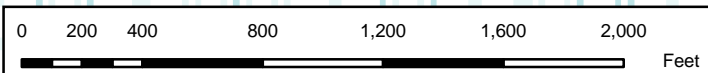
Bank Erosion of the Ninglick River (1954-2006)  
With Erosion Projections (2007-2027)

*Newtok, Alaska*



## Legend

- 1954, 1983 & 1996 Actual Coastlines
- - - 2002 Coastline
- - - 2003 Coastline (measured July 14, 2003\*)
- 2007-2027 Projected Coastlines (Five year intervals as noted)
- 2006 Coastline (measured April 25, 2006\*)



Historic shorelines digitized from USGS topographic maps and digital aerial photos. Projected shorelines are from statistically derived averages and have not been calculated based on actual Ninglick River data. Therefore, conservative erosion rate values were used for these projections, ranging from 36 ft/yr (west/downstream) to 83 ft/yr (east/upstream). Actual observations by residents and raw, non-averaged data indicate periods of much higher erosion rates. July 2003 shoreline represents a rate of 110 ft/yr.

\* 2003 & 2006 shorelines derived from uncorrected GPS points and are therefore only approximations.

Aerial photo date: June 15, 2002