The Kepuhi study area (transects 157 – 267) is experiencing erosion at an average rate of -0.4 ft/yr. Previous studies did not analyze the Kepuhi study area shoreline.

The shoreline at Wainiha is experiencing erosion at an average of -1.0 ft/yr. Wainiha Beach (transects 268 – 288) is analyzed separately from the rest of the study area by a basalt headland. The shoreline is composed of carbonate sand and beach rock. The area is exposed to large seasonal swell during the winter months.

Overall, the Kepuhi study area is experiencing erosion at an average rate of -0.5 ft/yr. The Kepuhi shoreline (transects 157 – 267) is experiencing erosion at an average rate of -0.4 ft/yr. Wainiha Beach (transects 268 – 288) is analyzed separately from the rest of the shoreline. The beach is backed by Wainiha River which periodically breaches the beach. The shoreline at Wainiha is experiencing erosion at an average of -1.0 ft/yr. Previous studies did not analyze the Kepuhi study area shoreline.

Shoreline change rates are measured at 5 ft intervals along the shoreline. These rates are denoted by yellow bars on the 图. Changes in shoreline position of the shorelines through time are used to calculate shoreline change rates (ft/yr) at each transect location. Annual shoreline change rates are shown on the store-parallel graph. Red bars on the graph indicate a trend of beach erosion, while blue bars indicate a trend of accretion. Approximately every fifth transect bar of the graph is numbered. Where necessary, transects have been purposely deleted to maintain consistent shoreline spacing. As a result, transect numbering is not consecutive everywhere. The rates are smoothed alongshore using a 1-3-5-3-1 technique to normalize rate differences on adjacent transects.