

Office of Coastal and Land Use Planning Participates in Partnership for the Delaware Estuary Project To Restore Matt's Landing Living Shoreline After Winter Ice Damage

On September 9th 2015, Office of Coastal and Land Use Planning Staff members participated with other volunteers in a Partnership for the Delaware Estuary project to restore 160 feet of living shoreline at Matt's Landing, Maurice Township, Cumberland County. Nine natural fiber coir logs were replaced after being damaged by ice last winter.



Photo Credit: Steve Jacobus

The living shoreline at Matt's Landing is one the Partnership's oldest such structures in New Jersey. The shoreline was created in 2010 to restore a more natural shoreline and prevent erosion of the Maurice Riverbank.

The Living Shoreline at Matt's Landing was constructed by placing coconut fiber mats at the shoreline, staking coir logs over the mats, allowing sediment to fill in behind the coir logs and planting marsh grasses in the trapped sediment and coir log. The coir logs help

create marsh areas by trapping soil between them and the shoreline. Soil accretion takes place over time and the shoreline will increase in elevation. Elevated areas are suitable habitat for marsh grasses *spartina alterniflora*, in this case.

Marsh Grass



Coir Log



Stake Hold

The coir logs and marsh grasses also combine to prevent prevent erosion of the shoreline. The natural fiber coir log is woven tightly together and is able to withstand wave action that normally would erode the bank. The root system from the marsh grasses growing in the coir log and soil also acts to more solidly holding the soil in place.



For more information from our Partners, please visit:

www.nfwf.org/whoweare/mediacenter/feature/Pages/bp_fs_14-1209.aspx