

CANOE BAY, COLUMBIA RIVER - Riverbank Restoration

Year Constructed
2013

Project Size
11,000 sf

Client
Private/City of Portland

Reinforcement
Earth Anchors

Vegetation
Plant Plugs

Engineer
Robert Race, P.E.
Envirolok Consulting Engineer

+ Project Snapshot

Prior to the current owner, the project site was used as a dumping ground of various construction materials. Many of these materials were dumped along the river's edge as a means of protecting the bank. High water levels and routine flood conditions continually damaged and began to erode the banks. The property owner worked with the City to look at bank repair options, but found extreme levels of contaminants along the riverbank soils and in the water. In order to complete improvements to the boatyard and marina, the property owner was required to cap and remediate the site at the riverbank. Envirolok was recommended for its ability to create a reinforced and vegetative solution that could also limit contaminants from reaching the waterway. In addition to sealing the contaminated soils, Envirolok could withstand the tidal influences and flood conditions. To reinforce the Envirolok system, earth anchors were used and vegetation flourished, adding additional strength and support. Envirolok successfully remediated this site and created a lasting solution for this eroding riverbank.

