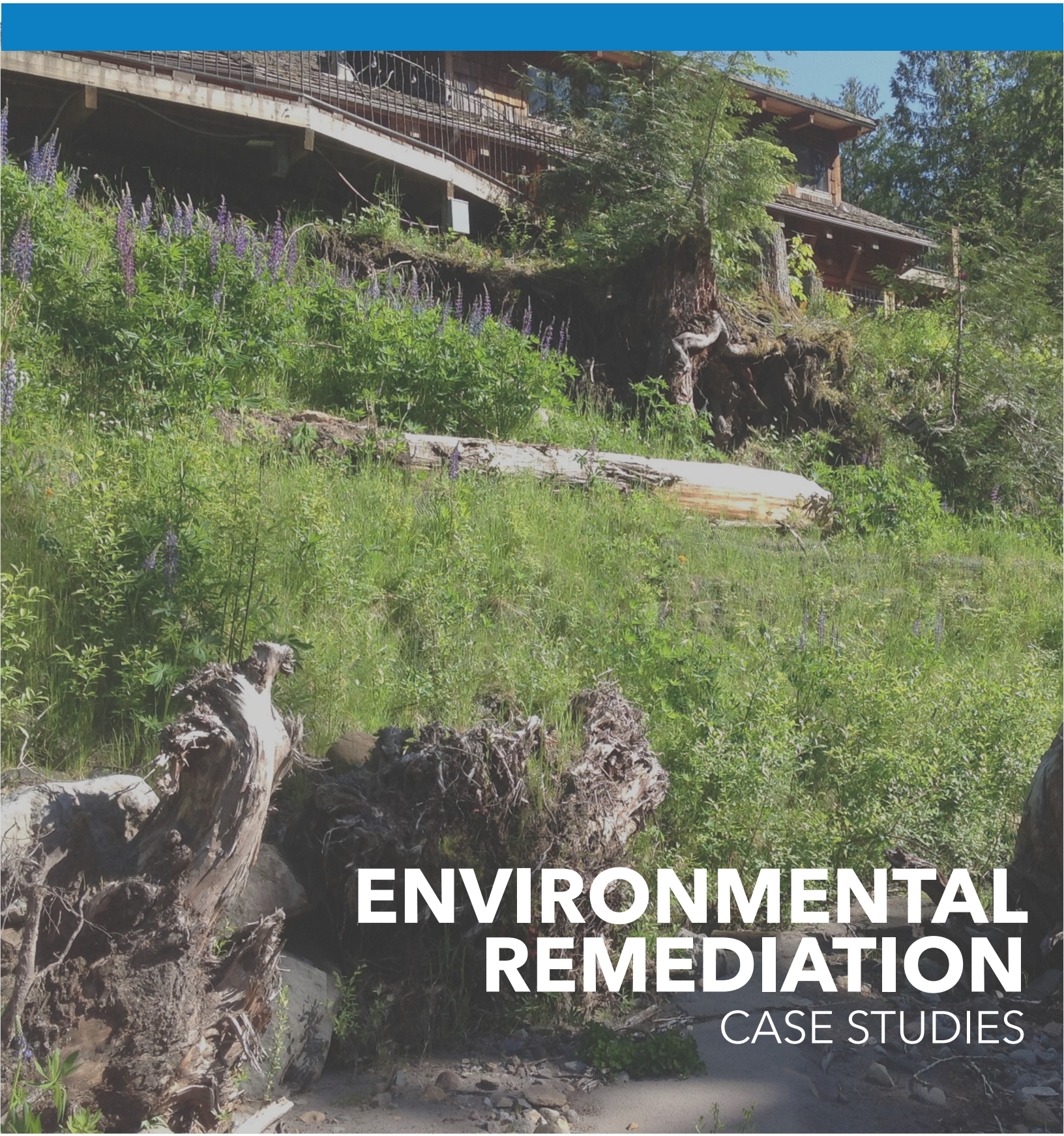




Designed for Nature...Engineered for Life

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# ENVIRONMENTAL REMEDIATION

CASE STUDIES



## **+ ENGINEERED ENVIRONMENTAL REMEDIATION**

Environmental degradation and contamination are becoming more and more prevalent in our communities. However, we are adapting to build greener infrastructure and remediate these issues. Envirolok is here to help by providing a natural, green alternative to our environmental remediation problems that will correct and permanently stabilize the issue from causing any further damage.

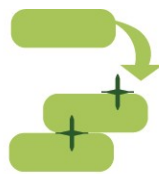
Whether you are correcting a mistake, containing pollutants, or remedying damage caused by a natural disaster, Envirolok's ability to work in a variety of applications with minimal construction footprint can create the solution that you are seeking. Oftentimes, the permitting process approval for Envirolok is fast, leading to quicker implementation and quicker, permanent solutions. Let our team work with you to correct any environmental remediation you need because we understand the value of working with nature, not against it.



**DESIGN**



**FILL**



**INSTALL**



**VEGETATE**



# SANDY RIVER - Riverbank Restoration

**Year Constructed**  
2011

**Client**  
Private Homeowners

**Reinforcement**  
Geogrid

**Vegetation**  
Live Stakes, Plant Plugs  
Hydroseed

**Engineer**  
Robert Race, P.E.  
Envirolok Consulting Engineer

**Project Partners**  
Sunmark Environmental  
Services, LLC

NorthWest Hydro-Mulchers

## + Project Snapshot

During a high flooding event, the riverbank beneath this home began to collapse and wash away. This needed to be stabilized as soon as possible and required a fully engineered, stable solution that would prevent this from happening in the future. Envirolok was chosen because it could provide the solution needed and permits were received within 10 days of the incident. For construction, they cut into the existing bank above the water's edge and placed a hard armor of large boulders and rootwads to help absorb and deflect incoming energy from the river. This stabilized the toe of the slope and the Envirolok units were built up the slope. Geogrid was wrapped around the Envirolok bags and embedded into the riverbank to provide sheer strength. The entire slope was then planted with over 800 native plant stakes, plugs, and hydroseeded to create dense vegetation that would further bind the system to the parent material. Envirolok was able to stabilize the slope, prevent further erosion, and was a quick easy solution to a disastrous event.





## 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.

