

Project Profile



PROJECT INFO:

NAME: Longhouse Market & Deli /
Sequim, WA

TYPE: Commercial Development

INSTALLATION DATE: May 2008

SYSTEM CONFIGURATION:

- (2) 4' x 4' units



Two Filterra Bioretention Systems were installed in the parking lot of the Jamestown S'Klallam Tribe's Longhouse Market to meet state goals for waterway protection.

Highlights:

The Jamestown S'Klallam Tribe sought to incorporate the concept of Low Impact Development (LID) long before design began on their new Longhouse Market and Deli. Prior to design, the Jamestown Tribe established two main goals to be met by all Tribal developments. The goals established were to protect and enhance the natural resources of the Jamestown S'Klallam Tribe, and to diversify and strengthen the existing base of businesses owned and operated by the Tribe.

The new market is located in close proximity to two environmentally sensitive areas; the Jimmycomelately Creek estuary, and the Tribe's gooey duck clam bed in Sequim Bay. The Tribe recognized that stormwater treatment was paramount in protecting these crucial waterways and felt incorporating LID stormwater solutions would offer the best solution to their immediate challenges.

Challenge:

The Tribe's desire to maximize parking spaces while meeting the high environmental standards required by Washington's Dept. of Ecology, made this site a particular challenge. Soils at the site were not conducive to infiltration, and a high groundwater level limited the options for utilizing LID.

Solution:

Filterra provided a solution to the site constraint and infiltration challenges with its efficient pollutant removal and small footprint. Two Filterra Bioretention Systems which exceeded the Tribe's expected goals for waterway protection were installed. The use of Filterra also allowed available land to be saved for customer parking.



The Tribe's biologist explains how the Filterra system functions and removes pollutants during an educational tour of the Tribe's LID designs.

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DESIGN DETAILS:

The efficient, decentralized design of Filterra allowed two systems to be installed for treatment. The parking lot runoff was effectively treated upstream; removing stormwater pollutants at the source, which prevented loss of available land.

Sizing for each Filterra followed and met the requirements of Washington State Dept. of Ecology's 2005 Stormwater Manual.

Why Filterra:

The Filterra Bioretention System is a proven, highly-effective, stormwater treatment system that removes a variety of pollutants of concern.

The engineered media within Filterra allows TSS, Nutrients, Metals, Oil/Grease and Bacteria to be naturally removed while reducing thermal impacts.

Filterra offers a compact "green" solution incorporating local trees and shrubs.

Maintenance is safe, simple and inexpensive.

A standard maintenance agreement is included with every purchase.

Our staff is available to assist you with all of your project requirements.