Sample Restoration Plan
Volunteer Revegetation Program
Green River – Duwamish General Investigation
September 2002

Overview:
The project area is approximately 1 acre in size and located at the Miller family property in King County WA (See attached vicinity map). The site is immediately adjacent to Sample Creek, a Green River tributary. Sample creek contains Coho salmon and is prone to periodic shallow flooding during high water events. Existing site conditions are comprised of abandoned wetland pasture. Reed cannarygrass dominates the site with isolated patches of deciduous trees immediately adjacent to the stream channel. The goal of the project is to enhance the degraded wetland habitat, and re-establish a forested riparian corridor. Controlling the presence of reed cannarygrass, and establishing a native forest community within the riparian zone will achieve this. A community volunteer group will perform the site preparation and planting. The landowners, Joe and Jane Miller, are responsible for site maintenance. A representative from the Green-Duwamish Restoration Project, Volunteer Revegetation Program will coordinate planning and implementation activities.

Site Description & Location
The project area occurs in a linear swath, 100 feet wide by approximately 400 lineal feet adjacent to Sample Creek (See site plan). The site is presently dominated by reed cannarygrass with isolated patches of trees along the creek channel. The project site is located at 2831 Northwest Green River Road in the south half of section 25, Township 21 North, Range 5 east, King County, WA.

Project Goals and Objectives

Goal: Establish a riparian corridor with forest and shrub classes that will provide enhanced habitat for wildlife.

Objective: Forest and shrub classes will be established in 40' diameter circular plots throughout the one-acre planting zone. Intensive site preparation and dense plantings will most effectively contend with reed cannarygrass and expand rhizomotlsy into non-treated areas over time.

Methods
A circular plot approach will be implemented to most effectively contend with the invasive reed cannarygrass, and establish the target plant community. Six-40 foot diameter (1256 sq. ft.) circular plots will be established throughout the one-acre restoration zone. Trees and shrubs will be planted in clusters within each plot. Prior to plant placement, coir rings will be placed around the circumference of the plot followed by heavy sheet mulching. Site preparation is as follows:

Plant Selection

Based on the existing soil, water and light conditions, the following species have been selected for each of the 6 circular planting plots:

Species	Stratum	Type	Quantity per Plot (40' diameter)	Total (times 6)
Black Cottonwood	Tree	2 gallon	4	24
Sitka Spruce	Tree	5 gallon	4	24
Western Redcedar	Tree	5 gallon	4	24
Oregon Ash	Tree	2 gallon	4	24
Pacific willow	Shrub	Livestake	17	102
Pacific ninebark	Shrub	2 gallon	17	102
Twinberry	Shrub	2 gallon	17	102
Salmonberry	Shrub	2 gallon	17	102
TOTAL # Plants			**84**	**504**

Schedule

1. Mow one-acre restoration area (Autumn)

2. Place 3 layers of cardboard over plot. Following layer 3, place coir ring around the circumference of the plot (autumn)

2. Sheet mulch each circular plot (Autumn)

Inside the coir ring, place four inches of topsoil over the cardboard. Eight to ten inches of wood chip mulch will be applied over the topsoil prior to plant placement.

3. Plant (Winter/Spring)

Following sheet mulch preparation, livestakes and containerized plants will be planted on 6-foot centers throughout the plot.

4. Irrigation

Immediately following planting, water each plot with 2 inches of water.

Monitoring

Six permanent photo stations have been identified on the site plan and marked on-site with rebar. Annually, for a period of 3 years, site photos will be taken to document planting success and effectiveness of weed control. Stem counts of lived, dead, and stressed plant material will be performed in 2 plots (rotating each year). Photographs, results, and recommendations will be submitted by October 15 of each year to the committee.

Maintenance

The landowners, with the assistance of the community volunteer group, are responsible for site maintenance. Maintenance will involve routine mowing and periodic weed

control. The site will be irrigated by water truck once a week from July 1 to October 15 during the first year after planting. Hand weeding around each plant will occur at least twice a year in the early and late spring. Wood chip mulch will be reapplied as needed.