Summary of Accomplishments

In 2008 the Small Habitat Restoration Program (SHRP) performed work on projects to restore streams, wetlands and their buffers protecting water quality and enhancing habitat for native fish and wildlife (see map on page 2).

**Program highlights include:**

- 9 new construction projects
- 11 continuing projects
- 8 projects in planning and permitting stages and preparing for construction
- 11 projects being maintained and monitored
- 2.0 miles of streambank revegetated with native plants*
- 7 acres of stream and wetland buffer revegetated with native plants

*Projects that enhanced both banks of a given reach of stream are counted as enhancing twice the reach length in streambanks (i.e. linear feet of stream has feet of streambank that could be enhanced).

SHRP staff worked with local property owners to design, permit and construct projects. Washington Conservation Corps (WCC) crews as well as volunteers provide essential construction labor and skills to build fences, bridges, control invasive weeds, stabilize eroding streambanks, and install native plants and water and maintain projects.

The SHRP Program works closely with the Water and Land Resource Division’s Basin Steward Program to identify projects and restoration priorities within King County’s watersheds. This ensures that SHRP projects fit into the broader plans for watershed restoration and build on the successes of other restoration and stewardship efforts.

SHRP leverages public funds with grants, community volunteer planting events, and partnerships between landowners, local, state, and federal agencies. The SHRP website (http://www.kingcounty.gov/environment/animalsAndPlants/restoration-projects/small-habitat-restoration-program.aspx) includes an online project application, archived annual reports, and technical assistance with guidelines for designing, planting, and maintaining habitat restoration projects.

SHRP recently began work on a new project tracking system that will provide managers with more accessible data on projects and the public with a more informative and compelling web presence. This new system should be up and running by the end of 2009.

The project synopses below are organized by WRIA (major drainage basins) and by the stage of the project in (new, ongoing, monitoring/maintenance, planning/permitting, or technical assistance).
2008 Active SHRP Projects

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2008 Construction Projects

2008 Maintenance & Monitoring Projects

2008 project Planning

WRIA 7  WRIA 9  WRIA 15

WRIA 8  WRIA 10

Small Habitat Restoration Program Annual Report
## 2008 SHRP Project Summary Table

<table>
<thead>
<tr>
<th>WRIA</th>
<th>New Start Construction Projects</th>
<th>Riparian Buffer Restoration Lineal Feet/miles</th>
<th>Riparian Buffer Restoration Square Feet/acres</th>
<th>Continuing From Previous Year Projects</th>
<th>Monitoring &amp; Maintenance</th>
<th>Technical Assistance</th>
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<tr>
<td>WRIA 7: Snoqualmie-Skykomish</td>
<td>Tuck Creek / Andrews 4,000 40,000</td>
<td>O’Hanley Gordon</td>
<td>Quigley Park</td>
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WRIA 7: Snoqualmie-Skykomish Watershed

In 2008 the SHRP staff worked with one new private property owner and restoration project and continued work on three ongoing projects within WRIA. Monitoring and maintenance was provided to two projects previously constructed.

WRIA : New Projects in

Tuck Creek/Andrews Riparian Planting (Private Ownership)
WCC crews planted lineal feet (square feet) of Tuck Creek on both banks with red twig dogwood, twinberry, Pacific ninebark, and pacific and Sitka willow. Crews returned soon after to repair flood damage to the plantings.

WRIA : Ongoing/Continuing Projects

Harris Creek (O’Hanley) Riparian Planting and Invasives Removal (Private Ownership)
WCC crews planted an additional lineal feet (square feet) of the left bank of Harris Creek adding to the lineal feet of bank planted in Crews also injected invasive Japanese knotweed with herbicide and removed poison hemlock from the existing native planting area.

Herbco Riparian Planting (Private Ownership)
WCC crews planted Sitka willow Sitka spruce red alder salmonberry oceanspray and red twig dogwood covering square feet along lineal feet of the left bank of the Snoqualmie River The crews also watered and weeded plantings installed on this site during the season.

Quigley Park Riparian Planting (KC Ownership)
WCC crews planted lineal feet (square feet) of the Snoqualmie River bank with red twig dogwood at Quigley Park in Fall City. This work added to the lineal feet of bank planted during.

WRIA : Monitoring and Maintenance

- Gordon Riparian Planting (Private Ownership)
- Lower Griffin Creek Riparian Enhancement (Private Ownership)
In 2008, the SHRP staff worked with public and private property owners on five new habitat restoration projects and continued work on three ongoing projects within WRIA Monitoring and maintenance was provided to seven previously constructed projects and project design and planning was done for one project to be constructed in 2009. WRIA 8 SHRP staff provided technical assistance to several citizens and agencies.

**WRJA 8: Lake Washington-Cedar River Watershed**

In 2008, the SHRP staff worked with public and private property owners on five new habitat restoration projects and continued work on three ongoing projects within WRIA Monitoring and maintenance was provided to seven previously constructed projects and project design and planning was done for one project to be constructed in 2009. WRIA 8 SHRP staff provided technical assistance to several citizens and agencies.

**WRJA : New Projects in**

**Cemetery Ponds Wetland Enhancement (Public Ownership)**

SHRP and the WCC crews worked with three community groups (Community Alliance to Reach out and Engage Stewardship of Wetland Areas by Neighbors and the Four Creeks Unincorporated Area Council) to remove over tons of garbage and cleared square feet of blackberry from this headwater wetland and buffer. On November 2nd volunteers installed and mulched container plants and removed more garbage on square feet of wetland buffer. Additional planting and livestaking is planned for December.

**May Creek Tributary #0291A Buffer Planting (KC Ownership)**

SHRP organized and co-sponsored King County Roads Maintenance Division’s first volunteer planting project on the reach of May Creek Tributary A adjacent to NE 168th street. This reach had been dredged during the summer as part of a comprehensive plan developed to address habitat and flooding issues in the area.

Fifteen volunteers from three community groups (Community Alliance To Reach Out And Engage Stewardship Of Wetland Areas By Neighbors and the Four Creeks Unincorporated Area Council) along with SHRP staff, installed 207 plants with cardboard sheet mulch along feet of May Creek Tributary A. About square feet of stream buffer was enhanced. They also removed garbage from the stream and roadway as part of the Adopt a Road program.

**Cottage Lake Creek Enhancements SHRP (Private Ownerships)**

Six properties (sq ft) along linear feet of the left bank of Cottage Lake Creek were weeded and/or planted with native plants and mulched. Eighty feet of split rail fence was installed on one of the properties to protect the buffer. Non-native and noxious weeds (Himalayan blackberries, Robert’s geranium, bittersweet nightshade, jewelweed, creeping buttercup, yellow-flag iris, field bindweed, purple loosestrife, and yellow archangel) were removed from the stream buffer.

**Mary Cash Farm Buffer Enhancement, Phase I (Public Ownership)**

WCC crews removed about square feet of blackberry along linear feet of stream and laid down weed control fabric for future planting. About 1.1 acres of stream and wetland buffer were planted with potted and bareroot plants. Phase II planting will occur as funds become available.

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*Volunteer planting at Cemetery Ponds*
**Song Bank Stabilization**
(Private Ownership)

WCC crews removed blackberry on a steep slope and planted plants along linear feet (sq feet) of Juanita Creek to control erosion. The project will be maintained by the property owner.

**WRPA: Ongoing/Continuing Projects**

**Issaquah Creek Tributary 0203 Buffer Enhancement (KC Ownership)**

SHRP expanded upon the Hang Glider Creek Enhancement Project begun in 2005. Working with representatives from the Northwest Paragliding Club, Cloudbase Country Club, Seattle Paragliding, and King County Parks, SHRP was able to make an agreement to expand the stream buffer from 15 feet to over 50 feet on both sides of the creek. WCC crews removed blackberries and installed native plants, square feet of fabric, cubic yards of mulch, and a drip irrigation system to enhance the square feet of stream buffer and 500 feet of streambank. Knotweed was controlled by stem injection and blackberry was removed by volunteers from Northwest Center for the Disabled. WCC crews also performed maintenance on the plantings installed in 2006.

**Lewis Creek/Montz Bank Stabilization and Habitat Enhancement (Private Ownership):**

WCC crews removed invasive blackberry and morning glory along linear feet of both banks of Lewis Creek and watered and maintained SF of riparian buffer plantings. In 2005, SHRP constructed 125 linear feet of biotechnical slope stabilization including placement of in-stream large woody debris anchored by duckbill anchors. In 2006, an additional 30 linear feet of biobank stabilization was installed on the right bank of Lewis Creek using coir lifts and native vegetation.

**Middle Issaquah Creek Buffer Enhancement, Phase II (Public Ownership)**

WCC crews removed blackberry and non-natives and planted plants and willow poles along linear feet of Issaquah Creek to enhance about 0.5 acres of buffer and control erosion. Future planting areas were prepared with weed control fabric. The project will be maintained through 2010. Phase III planting will occur as funds become available.
WRJIA : Monitoring and Maintenance

- Schnittker Buffer Enhancement (KC, Private Ownership)
- Stegman Buffer Enhancement (Private Ownership)
- Ricardi Tributary Buffer Enhancement (Private Ownership)
- Middle Issaquah Creek, Phase I (Public Ownership)
- Middle Bear Creek at Tolt Pipeline (Public Ownership)
- Folsam/Bear Creek Enhancement (Private Ownership)
- Derby Farm Enhancement (Private Ownership)

WRJIA : Project Design Permitting and Planning

- Cottage Lake Creek Buffer Enhancement, Bassetti Property (Private Ownership)

WRJIA : Technical Assistance Projects

In addition to on-the-ground project implementation, SHRP provided technical assistance to private citizens, non-profit groups and other agencies in WRIA.

During 2008 SHRP staff:

- Developed a restoration plan for a steep slope along the Cedar River on the Coan Property. The plan is being considered for implementation by Cascade Land Conservancy as part of Seattle Public Utilities' Habitat Conservation Plan.
- Provided Technical Assistance to the Herman Family of Maple Valley. SHRP staff recommended enhancement plantings and invasive control measures for their property. Since the property owners were interested in using these enhancements as mitigation for potential development of the property, they were ineligible for SHRP funding and were referred to the Rural Stewardship Program.
- Provided Technical Assistance to the Thorn-ton/Roth Family concerning stream bank erosion and minor flooding on a tributary to May Creek. SHRP staff provided details on invasive control and riparian buffer planting.
- Provided Technical Assistance on beaver management techniques and flow devices to property owners on a May Creek tributary, property owners on Allen Lake, Friends of Issaquah Wetlands Community Group, the Meadowbrook Farm Preservation Association, the City of Sammamish, Public Works and the Nature Conservancy. E-mail queries from Hope Township, Michigan, Barry County, Michigan and Hamilton County, Texas were also answered.

Small Habitat Restoration Program Annual Report
WRJA 9: Green/ Duwamish River Watershed

In 2008, SHRP staff worked with a private property owner on one new habitat restoration project and continued work on one ongoing project within WRIA 9. Design, permitting and planning was accomplished for six projects to be constructed during 2009 and monitoring and maintenance was performed on two previously constructed projects. Technical assistance was provided to one private citizen.

WRJA : New Projects in

Rosatto Newaukum Creek Enhancement (Private Ownership)

WCC crews installed two phases of planting along both banks of feet of Newaukum Creek in Reed canarygrass and blackberry are being controlled and the buffer has been planted with stakes, trees and shrubs to help stabilize the banks of the creek and enhance square feet of stream buffer. The first phase of the project occurred in January and consisted of planting willow and cottonwood stakes as well as red alder and salmonberry. In November an additional trees primarily conifers with some red alder and Oregon ash were planted. Plots were fenced in to protect them from beaver damage and many of the trees received vole protection.

WRJA : Ongoing/Continuing Projects

Westby Newaukum Creek Enhancement (Private Ownership)

WCC crews planted conifers, shrubs and willow poles to augment plantings installed in lineal feet (both banks) of Newaukum Creek. Barbed wire fence was also installed to prevent livestock from damaging the plantings. Vole protection was installed on the conifers. Approximately 22,000 square feet of buffer has been protected and enhanced by this project.

WRJA : Monitoring and Maintenance

- Giandalia Riparian Enhancement (Private Ownership)
- Berg Riparian Enhancement (Private Ownership)

WRJA : Project Design, Permitting and Planning

- O’Dell Stream Buffer and Bioswale Enhancement (Private Ownership)
- Lopez Stream Buffer and Pond Enhancement (Private Ownership)
- Fitzpatrick Stream Buffer Enhancement and Side Channel Restoration (Private Ownership)
- Fallen Stream Buffer Enhancement (Private Ownership)
- Hussein Stream Buffer Enhancement (Private Ownership)
- Brewer Stream Buffer Enhancement (Private Ownership)
In 2008, SHRP staff worked with a private property owner on one new habitat restoration project within WRIA 10:

**VanWieringen Buffer Enhancement (Private Ownership)**

WCC crews removed blackberries from 21,000 sq feet along 1100 feet of Boise Creek and planted 86 trees, 28 shrubs, and 320 livestakes. Additional blackberry removal is planned in summer and additional planting in fall/winter to reduce erosion and provide cover and refuge for salmon.

In 2008, SHRP staff worked with the Vashon/Maury Island Land Trust on one new habitat restoration project and continued work on four ongoing projects within WRIA 15:

**Paradise Valley Planting, Phase 1 (Vashon/Maury Island Land Trust)**

SHRP began work on a project that will eventually reforest 29 acres in the Paradise Valley Natural Area that borders Judd Creek. Ivy, Scotch Broom, and blackberry were removed and trees and shrubs were planted during Phase 1 of this project enhanced approximately three acres of the natural area.
WRIA : Ongoing/Continuing Projects

Shinglemill Bridge Removal, Phase 2 (Vashon/Maury Island Land Trust)
SHRP staff continued to provide design permitting and construction logistics to the Vashon/Maury Island Land Trust to enhance habitat in Shinglemill Creek. The first phase of this project was completed in summer of 2007 and entailed placement of 0 pieces of LWD scattered over 2,000 linear feet of stream channel. Phase 2 consisted of removing a failed bridge and two culverts, restoring 80 feet of streambanks to their natural condition, planting 220 trees and shrubs and adding 13 more pieces of large woody debris (LWD) to the channel.

Fisher Pond Planting (Vashon/Maury Island Land Trust)
Approximately 12,000 sq. ft. of blackberry and Scotch Broom that surrounded the Fisher Pond Preserve was removed. The area was then prepared and planted with small shrubs.

Singer Riparian Fence and Buffer Planting, Phase 2 (Private Ownership)
WCC crews planted an additional trees and shrubs and maintained plantings installed in the buffer along feet of Judd Creek.

Fern Cove Planting (Vashon/Maury Island Land Trust)
SHRP continued Ivy removal and replanting with native vegetation in an attempt to eliminate the largest patch of Ivy in the Shinglemill Creek watershed and to enhance the estuary. Shrubs were planted—primarily Sword Fern, Deer Fern, Snowberry and Vine Maple—as well as trees.

WRIA : Project Design Permitting and Planning

Needle Creek Conifer Underplanting (Vashon/Maury Island Land Trust)
**SHRP Mission**

The mission of SHRP is to build small low cost habitat restoration projects to enhance and restore streams and wetlands. Projects include stabilizing eroding streambanks, restoring fish access to upstream habitat, installing livestock fences, controlling invasive weeds, planting native vegetation, and providing technical assistance to landowners and agencies. Individual project costs typically range from $5,000 to $20,000. Projects are constructed on private or public property as long as they provide benefits to the public at large. Since 1995, SHRP has performed well over 300 projects in the White, Green, Puget Sound, Cedar-Sammamish, Lake Washington and Snoqualmie River basins.

To Submit a project application contact **Mason Bowles** at **206-296-8736** or mason.bowles@kingcounty.gov. Or check out our Web site at [http://dnr.kingcounty.gov/wlr/cposa/shrp/](http://dnr.kingcounty.gov/wlr/cposa/shrp/).