



It's our nature to volunteer.

TEAM UP FOR WATERSHED HEALTH

Major Sponsors :

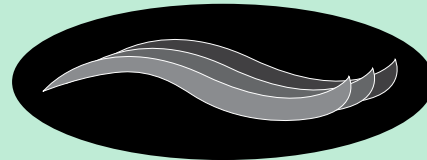


ENVIRONMENTAL SERVICES
CITY OF PORTLAND
working for clean rivers

CleanWater  Services
Our commitment is clear.



WEST MULTNOMAH



SOIL & WATER CONSERVATION DISTRICT



Final Report 2010

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PROGRAM OVERVIEW

STEWARDSHIP IN ACTION

Over the last 100 years, people have greatly impacted waterways of Oregon. We have diked estuaries and riverbanks, drained wetlands and rivers, dredged stream channels, logged mountainsides, trapped beaver, and built roadways and shopping malls. These activities and many others have seriously impacted the health of our waterways. As a result, our urban watersheds are in serious trouble. In the Willamette Basin alone, 1,400 miles of streams have water quality problems that exceed standards identified in the Clean Water Act. Some impacts are so great that restoration is not possible, but in many areas there is a great deal we can do. Stewardship is the key. Volunteer stewards have responded to this call. Through SOLV's Team Up for Watershed Health (Team Up) program, community members, businesses, and students are coming together to restore and rehabilitate streams in the Portland metro area. Since the inception of Team Up twelve years ago, volunteer numbers have continued to grow. This program creates both episodic and long-term volunteer opportunities. Community members participate in one-day planting events held almost every Saturday from October until May. Stream Team Captain training held twice a year provides opportunities for volunteers wanting to assume leadership roles in the stewardship of local watersheds.

The Team Up program has addressed the growing need for stream restoration and education in our urban watersheds. SOLV volunteers have rehabilitated 67 acres and are currently actively restoring and enhancing another estimated 188 acres in the Portland metro area. Our restoration sites are located in urban watersheds impacted by impervious surfaces, untreated stormwater, and loss of native riparian – streamside vegetation. During site restoration, Team Up completes site assessments and plans; recruits and trains volunteers and volunteer leaders; removes invasive species; plants native trees and shrubs; completes bioengineering; maintains the site by mulching, weeding, and watering; and conducts photo and vegetation monitoring. SOLV has teamed up with agency, business, and community partners to develop and execute these stream restoration projects. Through the Team Up for Watershed Health program, SOLV is achieving our primary mission to bring Oregonians together to improve the environment and build a legacy of stewardship.



Volunteers at Baltimore Woods pose for a group shot after planting native trees and shrubs at the site.

2010 TEAM UP ACCOMPLISHMENTS

- ▶ **4,156 total volunteers**
- ▶ **3,216 student volunteers**
- ▶ **336,135 pounds of invasive plants removed**
- ▶ **3,726 pounds of trash removed**
- ▶ **17,823 native trees and shrubs planted**



PROGRAM ELEMENTS

1. **Site Restoration and Monitoring**
2. **Volunteer Leadership Development and Training – Stream Team Captains**
3. **Student Engagement – Green Team**
4. **Community Stewards - Development and Support for "Friends" Groups**
5. **Resource Procurement**



Volunteers plant trees at Wade Creek in Estacada.

1. RESTORATION & MONITORING

Team Up commits a significant time to rehabilitation of our streamside sites. Impacts to sites took place over many years; to restore or rehabilitate a site nature requires positive action over time. Depending on the size and needs of the site, this averages 5 to 8 years with the goal of neighbors and local community groups maintaining the sites into perpetuity. We may not be able to return streams and wetlands to pristine condition, but we can take positive action to improve stream and wetland function. SOLV stewardship activities engages student, adult, and youth volunteers in improving water quality and creating fish and wildlife habitat.

Team Up completes projects with both ecological and scientific integrity. To ensure the success of both invasive-vegetation removal and new native plantings, Team Up has designed and implemented a monitoring and maintenance program. The Vegetation Monitoring program follows clear protocols and collects important long-term data on the overall conditions of a site. Team Up trains volunteers in monitoring protocols so they can measure plant survival, track growth rates, take photos from established photo-points to make sure that our stream-restoration activities are meeting project goals.

In addition to monitoring, work crews and volunteers help maintain our sites. Work crews such as the Clackamas County Environmental Youth Corp, AmeriCorps National Civilian Conservation Corps, Jesuit Volunteer Corps, AmeriCorps Field Teams, Washington County Community Corrections, Project Payback, and Timber Lake Job Corps have all been very effective in preparing sites for planting and removing invasive species from newly planted areas.



PROGRAM ELEMENTS, CONTINUED

2. STREAM TEAM CAPTAINS

Stream Team Captains make things happen. They embody our slogan of “Stewardship in Action”. They complete an intensive 12-hour watershed restoration training course covering watershed basics, stream-restoration topics, and volunteer management. In exchange for attending this free training, the Stream Team Captains agree to lead three Saturday work parties. Many Stream Team Captains continue leading Saturday work parties after the three initial events. In fact, a few Stream Team Captains have been leading events for over ten years. These volunteer leaders have put in many hours hosting Saturday events allowing us to leverage resources and coordinate more work parties to accomplish site goals.

Stream Team Captain trainings are held twice each year in January and August. Each new training brings another amazing group of volunteers. In 2010, SOLV staff trained 33 new Stream Team Captains. To augment initial Stream Team Captain trainings, Team Up offers a series of advanced Stream Team Captain training workshops. Many of the workshops are provided by our partners such as West Multnomah Soil and Water Conservation District, Oregon Department of Fish and Wildlife, and Habitat Concepts and include topics such as Winter Twig Identification and Common Weeds of the Pacific Northwest. In 2010, 36 community volunteers and Stream Team Captains attended advanced training workshops. As a result of these hardworking and dedicated individuals, Team Up was able to have 39 successful Saturday planting events.

3. GREEN TEAM

SOLV’s Green Team Program is a year-long program where students learn about stream restoration and community leadership, laying the foundation for long-term stewardship of the natural environment. In this program, SOLV partners with teachers in ten schools and forty-one classrooms



Volunteers learn planting techniques at Stream Team Captain Training.

engaging students in a student-directed watershed restoration service-learning program. The Green Team program was developed eight years ago to create service-learning opportunities for students while expanding SOLV’s stream-restoration activities in the Portland metro area. The Green Team program provides classroom and technical support to guide classes through watershed-restoration projects. This program is designed for schools interested in enhancing their classroom learning by extending lessons into the field.

Green Teams commit to stewardship activities at a stream-restoration site for the duration of the school year. Green Teams involve students in stream-restoration activities including removal of invasive vegetation, planting native trees and shrubs, soil bioengineering, monitoring sites with plots and photo-points, sampling macro invertebrates, water quality testing, and general site maintenance. Each school adopts a different stream, and visits the site several times during the year.



PROGRAM ELEMENTS, CONTINUED

3. GREEN TEAM, CONTINUED

For many students involvement with the Green Team program is their first experience exploring local streams and wetlands. Students learn the basics of watersheds, threats to watershed health, impacts of land use, restoration design, monitoring, and plant identification through on-site hands-on activities and related in-class activities.

The objectives of the Green Team program are to:

- ▶ Involve students in an intensive hands-on environmental restoration program;
- ▶ Instill in students an understanding of and commitment to civic engagement including personal and community responsibility;
- ▶ Engage students in comprehensive restoration work at ten dedicated sites in Oregon; and
- ▶ Provide opportunities for enhanced learning of academic content in several subjects thereby meeting Oregon's high school diploma requirements.

GREEN TEAM SCHOOLS AND SITES

- **Rachel Carson Middle School @ Willow Creek**
- **Gladstone High School @ Rinearson Creek**
- **Estacada High School @ Wade and Currin Creeks**
- **Mountain View Middle School @ Aloha Site**
- **West Linn High School @ Abernethy Creek**
- **Reynolds Natural Resource Academy @ Beaver Creek**
- **La Salle High School @ Phillips Creek**
- **Aloha High School @ Carter Creek**
- **Forest Grove High School @ Dairy Creek**
- **Riverdale High School @ Lewis and Clark**

Green Team School Highlight

Rachel Carson Environmental Middle School

For seven years, students from Rachel Carson Environmental Middle School have been enhancing Willow Creek in Beaverton. Beginning in sixth grade, students visit the site three times per month during the school year and continue through eighth grade. Over SOLV's seven year partnership with Rachel Carson, students have planted over 7,000 native trees and shrubs and have removed 20,000 pounds of invasive plants.



PROGRAM ELEMENTS, CONTINUED

4) COMMUNITY STEWARDSHIP

SOLV's Strategic Plan identifies the need for long-term stewards in the community to ensure sustainability of restoration projects and overall watershed health. SOLV's Team Up program focuses on engaging local community members in planning and management of stream-restoration projects to help them become long-term stewards of the land. The Team Up program values partnerships with local Homeowner Associations, "Friends" Groups, Watershed Councils, and other community organizations in choosing restoration sites and planning restoration activities.

In areas without active community groups, the Team Up program has been actively conducting outreach with community members to help support the creation of local "Friends" groups focused on long-term community stewardship. These outreach efforts are new to the Team Up program at SOLV. In 2010, we performed "Friends" groups outreach activities at two of our stream-restoration sites: Beaver Creek and Baltimore Woods. The watershed – including fish, wildlife and people – will benefit from long-term stewardship by knowledgeable, committed volunteers who work to maintain the native plant community and remove invasive vegetation. Participants in "Friends" groups gain new connections to their neighbors, people management skills, and greater understanding of the natural world and the effect it has on their own lives and the community.

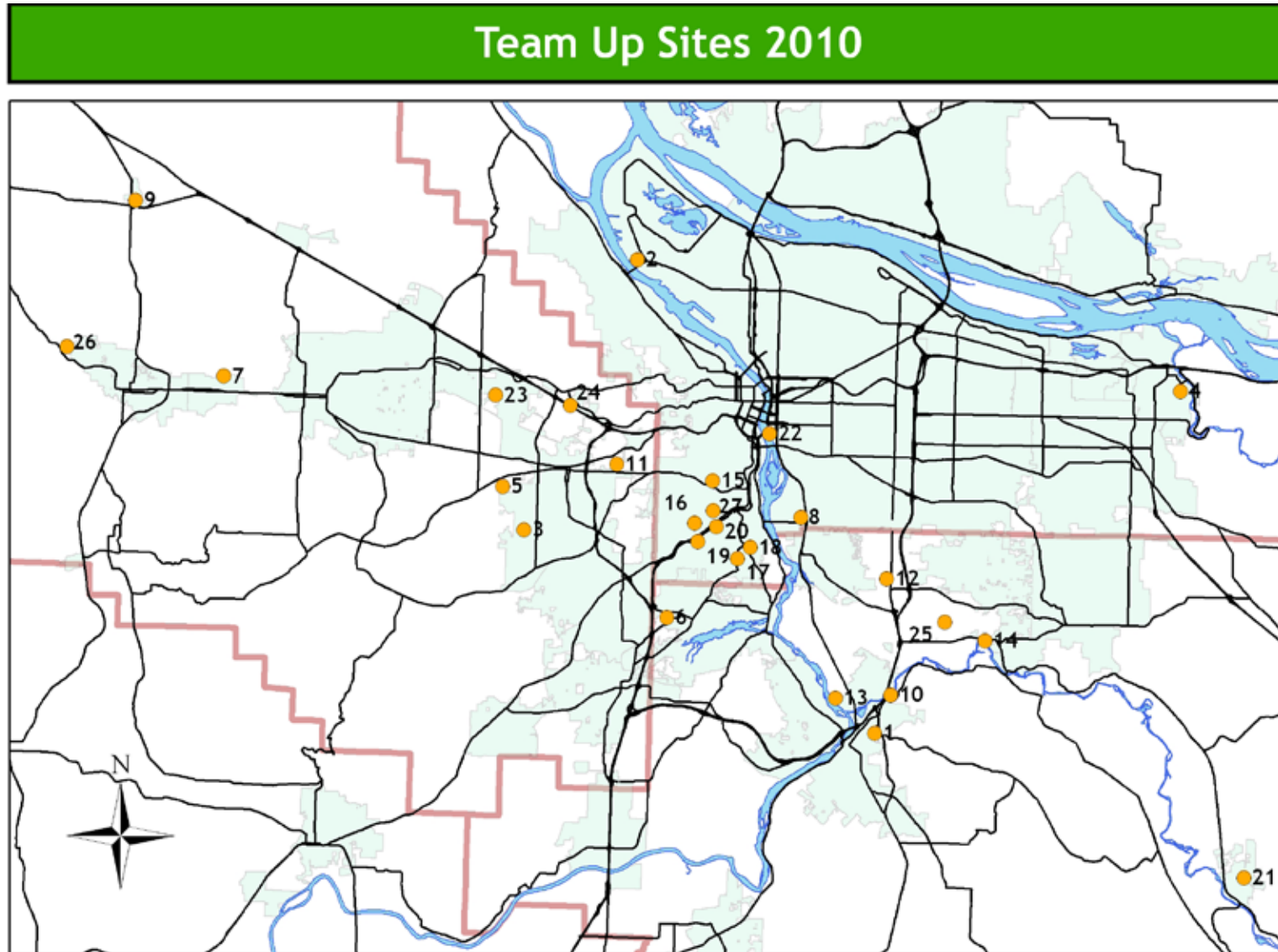
5) RESOURCES

The Team Up program is funded through a variety of government grants and contracts and private foundation grants, and – more recently – site sponsors. It is essential that we have adequate resources for watershed restoration and education activities. The majority – 76 percent – of our funding is obtained through government grants and contracts. A small amount of funding – 24 percent – is achieved through private foundation grants. Because we are unable to meet site funding needs through these initial funding sources, we have started to work with businesses surrounding sites to seek sponsorship funding. One business – Autodesk, Inc. – has donated a sum of money to assist with restoration efforts at Carter Creek. In the future, we will be working with businesses around Carter Creek and Baltimore Woods to move forward with additional site sponsorships.



Volunteers work hard to protect newly planted trees and shrubs.

TEAM UP PROJECT SITE MAP



The map above shows active sites (see next page for definition) in the Team Up for Watershed Health program. Site list on next page



TEAM UP PROJECT SITES

During 2010, SOLV worked with volunteer and paid crews to remove invasive plants and engaged volunteers (adults, youth, and students) to replant the area with native trees and shrubs at 32 stream-restoration sites.

Abernethy Creek – Gregg Property
Aloha High School
Baltimore Woods
Beacon Hill Wetlands (Washington County's Johnson Creek)
Beaver Creek
Beaverton Creek Tributary
Carter Creek
Clackamas HS Wetlands
Copper Creek
Council Creek – Ryland Park
Crystal Springs Creek - Crystal Springs Apartments
Currin Creek - Estacada High School
Dairy Creek Tributary - NW Elmhurst
Fairview Creek – Smith Memorial Presbyterian Church Property
Ghost Creek - Cottage St.
Goat Island (Clackamas River)
Hall Creek - SW Midea Ct.
Phillips Creek
Rinearson Creek
Rock Creek - Clackamas Confluence
Sunrise Wetlands
Trillium Creek
Tryon Creek – DeSimone
Tryon Creek - Goff
Tryon Creek – Lewis & Clark
Tryon Creek - Rizwan Mosque

Tryon Creek - St. Nicholas
Valley Catholic High School
Wade Creek – Estacada High School
Willamette River – OMSI
Willow Creek - NW Bernard Pl.
Willow Creek – THPRD Property

Volunteers plant native shrubs at Baltimore Woods, one of SOLV's 32 stream restoration sites spread throughout the Portland-Metro area.





PROJECT SPONSORS & PARTNERS

MAJOR SPONSORS:

Bill Healy Foundation
City of Portland Bureau of Environmental Services
Clackamas County Water Environment Services
Clean Water Services
West Multnomah Soil and Water Conservation District

ADDITIONAL SUPPORT PROVIDED BY:

The Autzen Foundation
East Multnomah Soil and Water Conservation District
Friends of Tryon Creek State Park
Goodman Family Foundation
Juan Young Trust
METRO
The Nature Conservancy
Oregon Department of Fish and Wildlife STEP
Oregon State Weed Board
Oregon Watershed Enhancement Board
SOLV Members
Tualatin River Watershed Council
Willamette Riverkeepers

IN-KIND SUPPORT

AmeriCorps*NCCC
Clif Bar
Dennis O'Connor, Restoration Ecologist
IBM
John Runyon
Kris Taylor
Krispy Kreme

Sage Jensen, WDOT
Starbucks
U-Haul
United Site Services

COMMUNITY GROUPS

Addington Homeowners Association
Clackamas River Basin Council
Columbia Slough Watershed Council
Congregation Neveh Shalom
Copper Creek Homeowners Association
Council Creek Estates Owners Association
Friends of Carter Creek
Friends of Mt. Scott/Kellogg Creeks
Friends of Tryon Creek
Hall Creek Homeowners Association
Johnson Creek Watershed Council
Kemmer View Neighborhood Association
Oregon Museum of Science & Industry
Portland Christian Center
Portland Opera
Quail Park Homeowners
Rinearson Creek Coalition
Riverview Homeowners Association
Rock Creek Watershed Partners
Sandy River Basin Watershed Council
Smith Memorial Presbyterian Church



A young volunteer learns to maintain newly planted trees and shrubs with mulch. Ongoing maintenance is important for the long term success of our restoration projects.

Sun Ridge Homeowners Association
Trillium Hollow Co-Housing Community
Tryon Creek Watershed Council
Wilkes Community Group



PROJECT SPONSORS & PARTNERS, CONTINUED

SCHOOLS

Aloha High School
Alpha High School
Beaverton High School
Clackamas High School
Clackamas Middle College
Colton Middle School
Deer Park Academy
Fowler Middle School
Estacada High School
Gladstone High School
King Elementary
Lewis & Clark Law School
Mountain View Middle School
Oregon City High School
Oregon Trail Elementary
PCC Rock Creek
Parkrose High School
Portland State University
Rachel Carson Environmental MS
Reynolds Natural Resource Academy
Robert Gray Middle School
Student Watershed Research Project
University of Portland
Valley Catholic School
West Linn High School

GOVERNMENT

City of Canby
City of Cornelius
City of Fairview
City of Gladstone
City of Gresham
City of Hillsboro Parks and Recreation District

City of Troutdale
Clackamas County Department of
Transportation
Clackamas Soil & Water Conservation District
Oregon Department of Environmental Quality
Oregon Department of Fish and Wildlife
Portland Parks and Recreation
Tualatin Hills Park & Recreation District

LANDOWNERS

Bob Andrews
Teri Armington
Nash Barinaga
Charmayne Bischel
Amanda Black
Peter Butler
Bill and Louise Calder
Carlotta Collette
Gerald Espenel
Steve Fairweather
Virginia Foster
Steve Gregg
Ed Gronke
Stephanie and Alan Hardy
Doug Hill
Cliff and Julie Hockley
Jeff Huchendorf
Peter Hurlen
Steve Johnson
Kaiser Family
Jim Kehoe
Cheryl Kennedy
Tal H. Kennedy

Pam Krecklow
Rusty Kunz
Aric Lucas
Laurie Mahar
Phil Merideth
Steve Metje
Kim and Ron Morrow
Randy Myers
Ben Namatinia
Patricia O'Brien
Chris and Jane Paulsen
Jamie Powers
Valerie and Roger Pease
Jane Richardson
Sisters of St. Mary of Oregon
Beth and Dan Stoner
Arnold and Betty Wight
Bob and Dawn Wilson
Frank Windust
CB Wright
Chet Zimmer

BUSINESSES

AutoDesk
Bosky Dell Natives
Oak Crafters Furniture
Olympic Homes
PBS Environmental
Shorenstein Realty Services, LP
Symantec Corporation
Tri-Lett Industries, Inc.

TEAM UP FOR WATERSHED HEALTH

Program Description

SOLV's Team up for Watershed Health mobilizes volunteers on riparian restoration projects, building sustainable communities and healthy watersheds.

Throughout the years, human activities have contributed to changes in watersheds all over Oregon. Urban and suburban development has shrunk or eliminated streams, stream corridors and buffers. It has forced polluted runoff directly into streams, and allowed invasive species to take over the landscape. Restoration efforts are critical if fish populations are to recover. Communities throughout the Portland metropolitan area are teaming up to keep the waters flowing!

If we are to make a positive impact on our watersheds and reverse some of these effects, we will need to work together in partnership.

Team Up Coordinator
Steve Kennett

As Oregon's largest non-profit volunteer organization, SOLV provides an average of 40,000 volunteer opportunities annually. SOLV volunteers and projects benefit more than 250 communities throughout Oregon each year.

SOLV brings Oregonians together to preserve the environment and build a legacy stewardship.

You can support SOLV programs by making a tax-deductible contribution.

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