

Greenspaces restoration projects final report Glenn Otto III

4) Project Description:

This project is a continuation of two restoration projects at Glenn Otto Park. Phase 1 started on the north section of Beaver Creek and Phase 2 to the south. Phase 3 started where Phase 1 ended and extended south towards Phase 2. The Himalayan Blackberries removal went faster than anticipated so an additional section to the north was included. These sections were covered with Himalayan blackberry vines. The blackberries were mechanically removed and native plants planted. Bio-engineering was used to stabilize the bank as well as to provide future shade to the creek. Fascines of willows and cottonwoods and willow stakes were placed along the edge.

The site preparation, in-stream work, and planting of native plants were completed in October 1998. Below is a brief summary of the six parts of this project:

a) Acquiring necessary permits and materials.

Joint applications were sent to the US Army Corps and Oregon Division of State Lands for the project in April. The City received the permits in mid August.

Dick Caldwell a fish and wildlife biologist for ODFW sent a letter requesting woody debris for the Beaver Creek to the USFS. The USFS donated 3 logs with rootwads attached. The City hired a log truck to deliver the logs to the restoration site.

Boulders were donated by Kiewit Construction for the second year in a row. Unfortunately, their track hoe was needed before all boulders could be loaded. More boulders could have been used if available, but we made do with what we had. A few boulders from the previous restoration projects were moved to finish the in-stream work.

Northwest Natives was selected for plant material. This is the first year, we have used them. The plants look healthy and Northwest Native delivers. Survival of the plants will be monitored over the next few years.

b) Removing the Himalayan blackberries.

The spiderhoe cleared the Himalayan blackberry vines being careful to leave existing native plants on site. The blackberries were buried in holes dug on the site. This process of burying the vines has been used in the past two restoration projects and re-sprouting has been low.

c) Fascine made out of willows and cottonwoods to help stabilized the banks.

A boy scout working towards his eagle badge and his troop collected willow and cottonwood branches from Sandee Palisade(a former Metro grant site) and made over 250 linear feet of fascine (waddles) on Saturday, October 3,1998. Jute netting and willow stakes were placed over the steepest parts of the banks. Some of the area was steeper than originally anticipated, so care was taken to keep people off these areas.

d) Replanting the area with native plants.

More than 70 volunteers including Friends of Beaver Creek, cub scouts, Sam Barlow and Madison high school students planted more than 2,100 native plants. This was a good opportunity for the volunteers to learn about proper planting techniques and riparian plants.

e) In-stream structures

The spyderhoe placed boulders and logs in the stream to improve fish habitat. Two USFS volunteers secured the logs to the boulders with cable. The cable was donated by the ODFS.

f) Monitoring

)The monitoring will be accomplished by in-house staff, Friends of Beaver Creek, and 2 High School classes. The on going maintenance will be by in-house staff and MYC, as well as with student from local high schools.

5)Goals and Benefits of the Project

The goals were to educate the public about the value of stream/habitat enhancement and stream bank stabilization. The volunteers had an opportunity to learned and "get their hands dirty" participating in planting the native plants. The volunteers came away with a better understanding of the different plant communities and the important of diverse habitat for wildlife.

This restoration project completes the Glenn Otto park side of Beaver Creek. In a few years willows, cottonwoods, redbud dogwoods, cedars, doug-fir and red alders will provide shade along the creek. The shade will be very beneficial for the creek and its inhabitants. The diverse planting will attract more wildlife for park visitors to observe.

6)Work Tasks and Time Lines:

Permits Approval	4-98 thru 8-98
Secure materials	6-98 thru 8-98
Spyderhoe (in- stream work)	8-98
Plant Material (delivered)	10-98
Fascines and netting	10-98
Planting	10-98
Cabling logs to boulders	8-98
Maintenance (on-going)	3-99 thru 6-99

7) Project Budget

Items	Metro \$ Grant	Cash Match Local Share	in-kind	Total
Contract labor				
All Terrain Ex.	5,075.00	5,075.00		10,150.00
Smith Truck(Boulders)	100	100		200
Bennet Truck(Boulders)	100	100		200
Davis Truck(logs)	162.5	162.5		325
MYC	450	450		900
Materials				
Boulders(donated)				
Plant Mat.	3289.5	1,274.25		2,887.50 1676.25
Volunteers 309hrs X 5.5			1,699.50	1,699.50
USFS 16 hrs			320	320
Supervisor 60+ hrs			1,470.00	1,470.00
Staff Time 8hrs			120	120
Misc.				
scissors	26.76	26.76		53.52
shovels	48.55	48.55		97.09
Staples	22.5	22.5		45
Steel plates	47	47		94
Totals	9,321.81	7,306.56	3,609.50	20,237.86
Grand Total \$20,237.86				

Project Staff/Workers/ Volunteers

Project Supervisor: Rob Crouch

City of Troutdale staff: Duane Korst, Harold Fishback

Multnomah Youth Cooperative

Volunteers: Friends of Beaver Creek, Cub Scout pack # 174 , Boy Scout Troop # 174, Madison High School Students, Sam Barlow High School Students

9) How project relates to greenspaces program

This project is located on a regional significant creek corridor, and is readily accessible to the public from Glenn Otto Community Park.

What worked/What didn't.

Using the spyderhoe to remove blackberries works very well. In other projects, youth crews were used with less than favorable results.

Provide an incentive. Friends of Beaver Creek provided lunch which is very helpful.

Keeping the hours that the volunteers work to 4 or less. Don't over work the volunteers, after 3 hours, start wrapping up the activities. This is our third consecutive year, of using volunteers on a Saturday and turn out has been over 50 each year. Labor can be secured to finished the projects. The MYC was hired to complete the planting.

Advice

Resist the temptation of trying to do everything the first year. If the area is large, break it down to manageable units with specific goals in mind.

Stay on top of the maintenance.

12) Monitoring and Maintenance Plan.

The site will be monitored though out the next year. Friends of Beaver Creek will monitor the site for wildlife(birds and fish). Several high school classes are monitoring the stream for ,Water temperature, ph, dissolved oxygen, and nitrates.

Maintenance will begin in the spring, to remove unwanted competition from blackberries and other weeds. The grubbing will continue as needed though out the year. We are arranging with the high schools to provide help with the maintenance. Water is available from Glenn Otto Park, if needed.

9/4/98

FRIENDS OF BEAVER CREEK MEETING

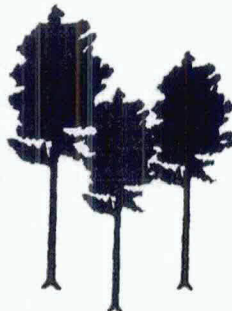
SEPTEMBER 9, 1998

7:00 PM

**Sam Cox Building
Glenn Otto Community Park
Troutdale, Or**

AGENDA

- 1. View in-stream restoration by Glenn Otto Park**
- 2. Harlow House Canyon restoration project work stoppage.
Guest: Eric Mauck**
- 3. Fall events - Tree planting, etc.**



DOCUMENTATION MUST BE ATTACHED FOR ALL COST

	Description of Services or Materials Purchases	Cost or Cash Value (cash, in-kind materials & services; volunteer labor)	Request for Reimbursement from METRO
Personnel Cost Volunteer hour are valued at \$5.50 per hour.		Supervisor time 60+hrs X \$24.50 = 1,470 Staff Time 8hrs X \$15.00 = \$120 Volunteers hours 309 X \$ 5.50 = \$1699.50	
Materials & Supply Briefly describe. Attach receipts.	Native Plant material Total \$4563.75 Scissors \$53.52 Loppers \$97.09 Staples \$45.00		Native Plant Materails \$3289.50 Scissors \$26.76 Loppers \$48.55 Staples \$22.50
Equipment Rental Briefly describe. Attach receipts	Spyderhoe for Stream work, boulders placement and Blackberry removal (All Terrain) \$10,150.00 Smith Trucking \$200 Bennet Truck \$200 Davis Truck \$325 Steel Plate \$94.00		Spyderhoe \$5075.00 Smith Trucking \$100 Bennet Truck \$100 Davis Truck \$163 Steel Plate \$47.00
Professional or Outside Service(s) Briefly describe. Attach receipts	MYC crew to finish planting 3 days \$900	Forest Service Volunteer \$20 x 16hrs \$320	MYC \$450 (Will bill later)
Total Reimbursement Requested:	16,618.37	3,609.50	\$8872.31