



## Technical Assistance Program



### Problem Statement

Private property owners often contact the City for help with drainage, water quality, or erosion on their properties. Some common examples include:

- Blocked or collapsed driveway culverts that cause ditch flooding;
- Stream bank erosion;
- Advice on native plantings and small vegetated stormwater practices;
- Rehabilitating vegetated corridors; and
- Maintaining water quality facilities.

Through the Stormwater Master Plan process, Tigard clarified its policy for involvement in private property issues. Generally, if there is no public nexus to the cause or location of the problem, then the City will not get involved in solving the issue.

However, the City would like to offer technical assistance to property owners.

The City currently has no resources dedicated to technical assistance for solving drainage, water quality, or erosion problems or for addressing facility maintenance concerns on private property.

## Recommendations

Develop a three-part technical assistance program for private property owners.

### Partner Technical Assistance

For the first part, provide an annual budget to a local non-profit partner to fund a technical assistance program. Potential partners include Tualatin River Watershed Council, Tualatin Riverkeepers, and the Tualatin Soil and Water Conservation District.

Support a half-time technical assistance specialist position and a grant program for property owners in Tigard. Train the specialist at the partner organization to install small vegetated stormwater practices, assist landowners to maintain private water quality facilities, and rehabilitate vegetated corridors.

### Partnership Grant

As part of the partnership, develop a grant program administered through the partner to provide professional advice and design assistance to private property owners for installing and caring for native landscapes and small stormwater practices.

Model programs include Clean Water Services' Clean Water Hero program and the Stormwater Stars workshops. Stormwater Stars is offered by a multi-agency local partnership with funding from Oregon Department of Environmental Quality, West Multnomah Soil & Water Conservation District, and others. These programs offer on-site assistance to landowners, but do not offer cash assistance. The Clean Water Hero program offers free native plants and professional advice to participants.

### Restoration Grant Program

Consider developing a larger-scale grant program or matching grant program to provide funds or matching funds for more intensive retrofit and restoration projects on private properties. Grant programs offered through the Oregon Watershed Enhancement Board (OWEB), for example, require matching funds. Tigard's grant program could help provide those matching funds.

Alternately, Tigard's grant program could follow other models for local restoration grants. Clackamas County Service District No. 1 offers \$30,000 grants for watershed health projects through its RiverHealth Stewardship Program, for example.

### Driveway Culvert Program

For the second part of the program, develop an in-house small grant for private driveway culvert maintenance and repair. Model the grant after the existing sanitary sewer lateral grant program, which reimburses homeowners for the portion of a lateral repair that is located under a sidewalk or other parts of City right-of-way.

### Roof Downspout Extension Program

For the third part, develop an ongoing program to extend residential roof downspout drains that are causing stream bank erosion. In the first year of the program, assign

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## Cost Estimate

The cost estimate assumes the technical assistance program entails one-time spending to set up new programs and the partnership. Annual costs will include an annual lump sum contract with a partner and annual budgets for two grant programs, the driveway culvert program, and the roof drain extension program.

For construction of roof drain extensions, annual costs for materials is assumed to be \$10,000 per year for ten drains with an average length of 50 feet using a 12-inch diameter pipe at \$30/foot. The cost estimate assumes construction is through Cascade Education Corps and that the City can obtain a programmatic environmental permit for this work. The roof drain extension program is assumed to last for ten years and end after each basin has been addressed.

### One-Time Costs

Items	Qty	Unit	Unit Price	Total
Stormwater Division Staff	0.5	FTE	\$91,000	\$45,000
Roof Drain Programmatic Permit	1	EA	\$10,000	\$10,000
<b>One-Time Total</b>				<b>\$65,000</b>

### Annual Costs

Items	Qty	Unit	Unit Price	Total
Partner Technical Assistance Specialist	0.5	FTE	\$100,000	\$50,000
Annual Partner Grant + Partner Overhead	1	YR	\$12,000	\$14,000
Annual Restoration Grant + Overhead	1	YR	\$45,000	\$45,000
Annual Driveway Culvert Program	1	YR	\$10,000	\$10,000
Annual Roof Drain Materials	1	YR	\$10,000	\$10,000
Annual Cascade Education Corps Crew	1	YR	\$7,000	\$7,000
Project Administration, 15% of Services				\$20,000
<b>Annual Total (Rounded)</b>				<b>\$175,000</b>

Recommendations, continued

staff to walk greenway corridors to find roof drains that discharge at the top of a slope. In subsequent years, install small roof drain extensions with energy dissipaters. Use a systematic approach to construct the extensions basin by basin.

An option for staffing this program is to partner with Cascade Education Corps, an alternative high school program where students learn through outdoor work and environmental stewardship.

