

TECHNICAL & FINANCIAL ASSISTANCE FOR PRIVATE PROPERTY IN KIRKLAND

Agreement # WQNEP-2017-KirkPW-00036

PROGRAM TOOLKIT



ACKNOWLEDGEMENT

This project has been funded wholly or in part by the United States Environmental Protection Agency under assistance agreement PC-01J18101 to the Department of Ecology. The contents of this document do not necessarily reflect the views and policies of the Environmental Protection Agency, nor does mention of trade names or commercial products constitute endorsement or recommendation for use.

Toolkit available online:

https://www.kirklandwa.gov/Government/Departments/Public-Works-Department/Storm-Surface-Water/ Green-Stormwater-Infrastructure-GSI/Yard-Smart-Rain-Rewards/Toolkit-for-Jurisdictions

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Program Overview

The City of Kirkland conducts a technical and financial assistance program for Green Stormwater Infrastructure (GSI) project installation on private properties in Kirkland, called *Yard Smart Rain Rewards*. The program was funded by a National Estuary Program grant administered by the Washington Department of Ecology (Ecology) from September 2018 to December 2021.

Yard Smart Rain Rewards focuses on improving water quality in local waterways through the implementation of GSI retrofit strategies on commercial, institutional, and residential properties in Kirkland. City of Kirkland staff provide technical assistance and a rebate program to encourage landowners to implement GSI retrofits to manage stormwater runoff on their property.

In 2018-2020, Yard Smart Rain Rewards focused on the Forbes Creek Watershed. City of Kirkland chose to focus the program in the Forbes Creek Watershed in order to build on stormwater retrofit planning efforts that were occurring there. In 2021, City of Kirkland transitioned Yard Smart Rain Rewards to a citywide program and created a standalone tree rebate program, acting on lessons learned in 2018-2020.

Program Goals

The overall goals of the program are to:

- Reduce runoff volume entering Kirkland's waterways from private properties.
- Increase program participant awareness of the impact of their property on stormwater volume and what they can do to reduce that impact.

Program Elements

Key program elements included:

- **Participant recruitment.** The target audience for this program was property owners whose properties were connected to the municipal stormwater system. Recruitment efforts included the use of social media posts, paid social media ads, Google ads, utility bill inserts, tabling at public events, promotion on City email listservs, and presentations at neighborhood association meetings.
- Site assessment and report. City of Kirkland staff conducted a site assessment with each Yard Smart Rain Rewards participant. During the visit, staff walked the participant's property with them and discussed potential stormwater management projects for their property. Following the visit, participants received a report summarizing the site assessment and project recommendations.
- **Project design and construction.** Program participants who chose to construct one of the recommended projects then designed and installed a project, either on their own or with the assistance of a contractor. City of Kirkland staff reviewed project design and construction and provided technical assistance as needed.
- **Project rebate.** Once projects were constructed and inspected by staff, participants were eligible to receive rebates for project costs up to \$3,000 for single-family homes and up to \$6,000 for multi-family, non-profit and commercial properties.

A standalone tree planting rebate program was added in 2021 for property owners interested in just planting trees rather than a full Yard Smart Rain Rewards project. Participants were eligible to receive a rebate of \$150 per tree – up to \$500 per property.

Program Implementation

Participant Recruitment

City of Kirkland staff designed messaging, logos, and other branding elements to promote the program. These promotion and recruitment materials are included for reference in Appendix A.



Recruitment occurs via multiple channels including:

Yard Smart Rain Rewards program logo

- **News release.** A City of Kirkland news release about Yard Smart Rain Rewards was shared with local media at the beginning of the program.
- **Utility bill insert.** A program overview flyer was included in the City of Kirkland utility bill for 9,100 addresses in the Forbes Creek Watershed.
- **Google ads** with a focus on Kirkland zip codes and related search terms have been purchased throughout the program to drive traffic to the Yard Smart Rain Rewards program website.
- **City of Kirkland email newsletters.** Articles about the Yard Smart Rain Rewards program have been included in the *This Week in Kirkland* (3,993 subscribers) and *Kirkland Conserves* (1,227 subscribers) email newsletters.
- **Social media posts.** Posts regarding Yard Smart Rain Rewards have been included in both the City of Kirkland and Kirkland Conserves Facebook accounts. Targeted Facebook ads have also been purchased.
- **Tabling at public events.** Program staff tabled at the Kirkland Wednesday Market and at the Juanita Friday Market.
- **Presentations at neighborhood association meetings.** City of Kirkland staff have given a presentation about the Yard Smart Rain Rewards program at the neighborhood association meetings for Kirkland neighborhoods.
- **Yard signs.** Many program participants who installed projects agreed to post signs in their yards advertising their participation in Yard Smart Rain Rewards.

Recruitment of multifamily, commercial, and non-profit properties. While very successful with residential properties, the outreach methods listed above had limited effectiveness with multifamily, commercial, and non-profit properties. For this reason, the City of Kirkland hired a contractor, BEA Environmental, to manage the recruitment of this specific audience. BEA Environmental reached out to these properties in the Forbes Creek Watershed via email, phone, and in-person visits.

Timing was a challenge for these recruitment efforts, as BEA Environmental was hired in February 2020, just prior to the start of the COVID-19 pandemic and Shelter in Place order from the Washington Governor.

Program Materials

A suite of resource and educational materials, listed below, were created to support the Yard Smart Rain Rewards program. These materials are included for reference in Appendix B.

- **Program web pages** serve as a hub for program participants, providing guidance on project steps and links to resources and program forms. They also provide information for property owners interested in learning about the program.
- Fact sheets provide a brief overview of the different types of rebate-eligible projects. Each page includes a description of the project type including benefits, site considerations and, criteria for rebate eligibility. Fact sheets were also created to describe the program rebate and eligibility to participants.
- Installation guides were created as resources for participants interested in installing projects themselves. The guides focus on three project types that do not require technical expertise downspout disconnection, tree planting, and native landscaping.
- **Maintenance guides** were created to assist participants in the maintenance of their projects. These guides focus on the care and maintenance of cisterns, young trees, and native landscaping.
- **Contractor list** of potential landscape contractors who perform services eligible for the Yard Smart Rain Rewards program. The list is a starting reference and participants are not required to use a contractor from it.

Site Assessments

After registering for the program, participants receive a one-hour site assessment with City of Kirkland staff and receive a folder containing the rebate fact sheet, project checklist fact sheet, project approval forms, contractor list, natural yard care resources, and information about the City's spill and flooding hotline.

During the assessment, staff walk a participant's property with them and discuss site conditions, the flow of stormwater on their property, and the potential for installing rebate-eligible stormwater solutions on their property. Information is collected by staff on a data collection form, included in Appendix C.

After their site assessment, participants receive a report with a summary of conditions on their property in the following categories:

- Site history
- Impervious surface
- Downspouts
- Topography
- Soil quality
- Vegetation
- Site constraints

The report also contains recommendations for Yard Smart Rain Rewards projects best suited to their property, as well as an aerial map of their property marked with existing conditions and features and suggested areas for recommended projects.

The report notes other beneficial stormwater practices and includes a link to the Project Approval Form. Following review for technical feasibility and accuracy by City of Kirkland staff, reports are emailed to program participants. Staff follows up with each participant individually to review recommendations and answer questions. A sample report is included in Appendix C.

Rebates

Participants complete a Project Approval Form when they are ready to move forward with a project. The form lists all the requirements for each project type and includes spaces for participants to enter installer information (contractor or DIY), simple drawings, and cost estimates for their proposed project. Once a participant submits this form, City of Kirkland staff reviews and approves the project or works with the participant to address any issues.

Participants then work with contractors to complete the project – or complete it themselves – and submit a Project Rebate Form, W-9 form, maintenance agreement, itemized invoices and receipts, and proof of payment. Staff also conduct an inspection to verify that projects are installed in accordance with approved plan. Program forms are included for reference in Appendix D.

	Single-family residential	Multifamily, commercial	Non-profit
Percent rebate	75% project costs for work done by contractors. 100% project costs for DIY.	75% project costs	100% of project costs
Total max rebate	\$3,000/parcel	\$6,000/parcel	\$6,000/parcel
Native landscaping	Min 400 sf area converted	Min 800 sf area converted	Min 800 sf area converted
Rain gardens	Min 400 sf contributing area	Min 800 sf contributing area	Min 800 sf contributing area
Cisterns	Min 400 sf contributing area, 200 gal	Min 800 sf contributing area, 400 gal	Min 800 sf contributing area, 400 gal

Rebate structure is described in the tables below:

Simple, stand-alone projects were rebated on a per item basis (rather than a percentage) to streamline the program and simplify the rebate process for program participants and City of Kirkland staff.

This rebate structure is described in the table below:

	Single-family residential	Non-profit, multifamily, commercial	
Downspout disconnections	\$50 rebate per downspout	\$50 rebate per downspout	
Tree planting	Up to \$150 rebate per tree,	Up to \$150 rebate per tree, up	
	up to \$500 per property	to \$500 per property	
	(cost of tree & mulch)	(cost of tree & mulch)	

Lessons Learned and Recommendations

The Yard Smart Rain Rewards program was intended to both achieve program outcomes and to generate lessons learned for future phases of the program. The following are lessons learned and recommendations for future program implementation.

Recruitment and Outreach

Refine outreach and advertising strategy. Through successful outreach efforts, demand for site assessments quickly outpaced staff availability. For future outreach and participant recruitment efforts, consider a strategic release of outreach materials over a longer timeframe, and as needed, rather than pushing out all recruitment materials at the same time. Implement timeline and/or calendar to plan outreach and track audience responses.

Create outreach strategy specific to business and non-profit sectors

- *Refine marketing approach.* Decision makers for the commercial sector are usually either the property owners or the property management firms authorized by the owner. Send marketing materials to listed property owners, in conjunction with direct outreach to the businesses. A two-tiered approach focused on engaging both the business and the property owner would be ideal for various reasons, including sharing of necessary contact information, locating the appropriate decision makers, and more.
- *Refine timing of outreach.* The primary challenge to participation of multifamily properties was timing and annual budgets for the properties. According to 7 multifamily properties interviewed by BEA Environmental, their property improvement budgets for the following year are developed in late summer/fall and submitted in October. For these types of facilities to participate in future projects, outreach to these facilities should begin at least the summer prior to the timeframe for project installation so property managers can include costs in the following year's improvement plan and budget.

Program Resource Materials

In surveys and conversations with City of Kirkland staff, participants have expressed a need for additional resource materials regarding native landscaping. The average property owner is unfamiliar with native plant species and where to source them.

Create resources or collect existing resources to aid participants with these challenges. Resource materials could include:

- lists of native plant appropriate for suburban yards
- example planting plans for a variety of yard conditions (sun/shade, wet/dry)
- lists of nurseries and plant sales that specialize in native plants

Site Assessments

The average time between a site assessment and the delivery of the site visit report was 20 days in 2021. Site visit reports are reviewed by another Education & Outreach Specialist and a Surface Water Engineer for technical accuracy/feasibility. This delay in delivery of the site visit report results in a missed opportunity to capitalize on the excitement generated during the site visit.

Moving forward, Kirkland will pilot a new method that moves the review by the Surface Water Engineer until the project approval stage, which will likely decrease the turnaround time to 3 days or less.

Project Design and Installation

Participants in 2021 reported significant difficulty in securing a contractor for their Yard Smart projects. Most reported that contractors never returned their calls. When a bid was provided, costs were substantially higher than what participants expected and rebates were not enough to offset the total cost.

Future programs might consider adding more support for do-it-yourself (DIY) participants, including workshops for plant selection, site design, material sourcing, etc.

Rebates

Continue offering 100% rebate option for participants who choose to install project themselves instead of hiring a contractor. This option reduces financial barriers to participation.

Timeline

While this current program faced numerous delays and challenges due to the extraordinary circumstances of the COVID-19 pandemic, timing will always be a challenge with this type of program. Participants will always have competing priorities and landscape contractors will always be hard to schedule.

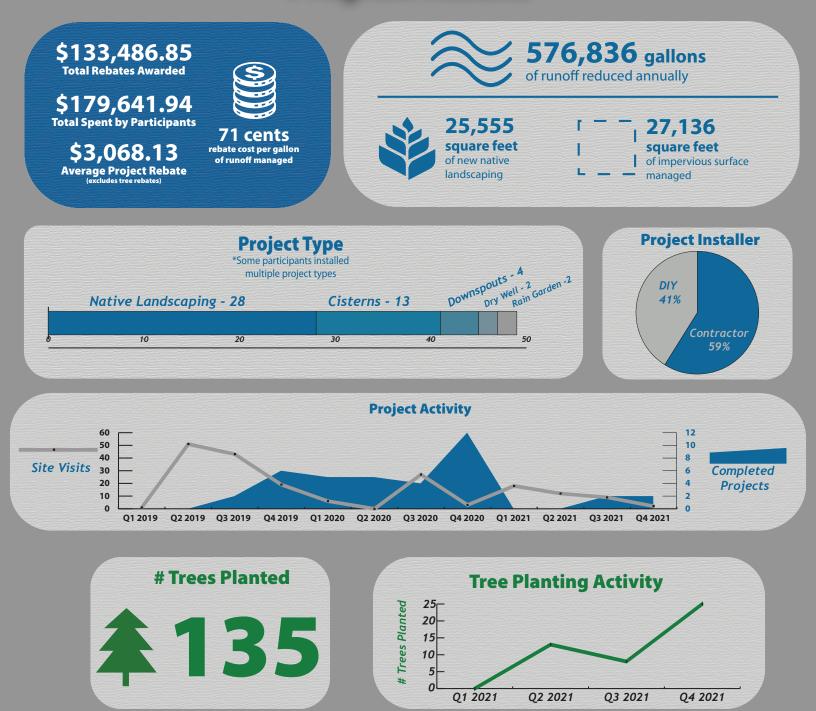
Consider scheduling multiple check-in points with program participants. These could include:

- Newsletter-format emails to all participants with project tips, plant sale information, and timeline reminders.
- Quarterly phone call check-ins.
- Skill-building workshops for program participants, where staff can assist with project planning and design elements.

Appendices

- A. Overall Project Accomplishments
- **B. Recruitment Materials**
- C. Program Materials
- **D. Site Assessment Materials**
- E. Program Forms

Yard Smart Rain Rewards Program Results



Appendix B - Recruitment Materials

- News release
- Utility bill insert
- Google ads
- City of Kirkland email newsletters
- Social media
- Yard signs



City of Kirkland NEWS RELEASE 123 – Fifth Avenue Kirkland, WA 98033 www.kirklandwa.gov



Contact: Kellie Stickney Communications Program Manager KStickney@kirklandwa.gov 425-587-3021

February 21, 2019

City of Kirkland Launches New Yard Smart Rain Rewards Program

Kirkland, Wash -

The City of Kirkland has launched an exciting new program called Yard Smart Rain Rewards to provide free technical and financial assistance to qualified Kirkland property owners who install simple and beautiful landscaping projects to manage rainwater on their property.

Under this new program, property owners who install environmentally-friendly landscape projects like rain gardens, rain capture cisterns, and native landscaping will qualify for rebates covering between 75 and 100% of their project costs up to \$3,500 for single-family homes and up to \$7,000 for multi-family, commercial, non-profit, and industrial properties. "The goal of this program is to work with Kirkland property owners to slow the flow of rainwater runoff and allow it to naturally soak into the ground before it reaches Forbes Creek or Lake Washington," said Aaron Hussmann, Education and Outreach Specialist with the City.

Every time it rains, water picks up and carries pollutants from our roofs, driveways, patios, and lawns, into the nearest storm drain, and finally into local creeks and Lake Washington. During big storms, the volume of rainwater runoff can cause neighborhood flooding and erosion hazards. Yard Smart Rain Rewards projects are designed to capture that polluted rainwater before it leaves a property, slow its flow, and allow it to soak into the ground naturally where pollutants can be filtered out. Property owners in the Forbes Creek watershed (including large portions of North and South Rose Hill neighborhoods, and small portions of the Highlands, Juanita, Norkirk, and Totem Lake Neighborhoods) are eligible to install a Yard Smart project and claim a Rain Rewards rebate.

Participants in Yard Smart Rain Rewards will receive a free consultation at their property to determine the project that is best suited for their budget, time, and goals. To learn more, determine your eligibility, or sign up for a free Yard Smart consultation, visit <u>kirklandwa.gov/yardsmart</u>. Each property consultation also includes a free bag of yard-friendly compost.

For more information, contact Kirkland's Yard Smart Rain Rewards program at 425-587-3857 or <u>yardsmart@kirklandwa.gov</u>.

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Yard Smart Rain Rewards is funded in part by the U.S. Environmental Protection Agency under assistance agreement with the Washington Department of Ecology.



PROGRAM OVERVIEW

What?

Yard Smart Rain Rewards is a City of Kirkland program that provides free technical assistance and rebates up to \$3,500 or \$7,000* to Kirkland property owners who install simple and beautiful projects to manage rainwater on their property.



Every time it rains, water picks up and carries pollutants from our roofs, driveways, patios, and lawns, into the nearest storm drain, and finally into Forbes Creek and Lake Washington.

During big storms, the amount of rainwater runoff can cause neighborhood flooding and erosion hazards.

YOUR YARD CAN HELP.



Slow it down and soak it up.

Installing a rain garden, rain capture cistern, or native landscaping at your home slows the flow of polluted water, and lets it naturally soak into the ground, where pollutants are filtered and the water is cleaned.

Be Yard Smart,

Get Rain Rewards Rebates! For Single-Family Homes:

75% of Project Costs up to \$3,500 for work done by contractors.

100% of Project Costs up to \$3,500 for DIY projects.

*For Multi-Family Homes & Commercial Properties: 75% of Project Costs up to \$7,000

Eligible projects include **rain gardens, cisterns, and native landscaping.** See reverse for details.

HOW WILL YOU BE YARD SMART?

RAIN GARDENS

Rain gardens are bowl-shaped gardens designed to collect water from your roof and slowly soak it into the ground. Rain gardens add beauty to your landscape, help control runoff, and improve the quality of water draining from your property to Lake Washington.



A **cistern** is a large, above-ground container used to collect roof water. During the winter, cisterns collect rain and slowly release it into the ground or your garden. In the summer, water can be collected and used for watering.



Native landscaping replaces poorly draining surfaces like pavement and lawns with a thick mulch layer and native plants to beautify your yard, attract pollinators, and clean polluted runoff. How to Join





CONSULTATION

FIND OUT IF YOUR HOME IS ELIGIBLE

HOME IS ELIGIBLE

CHOOSE YOUR YARD SMART PROJECT BUILD YOUR PROJECT





CLAIM YOUR REBATE UP TO \$3,500 OR \$7,000

MAINTAIN YOUR PROJECT

Learn More

Online Email Phone

kirklandwa.gov/yardsmart yardsmart@kirklandwa.gov (425) 587 - 3857

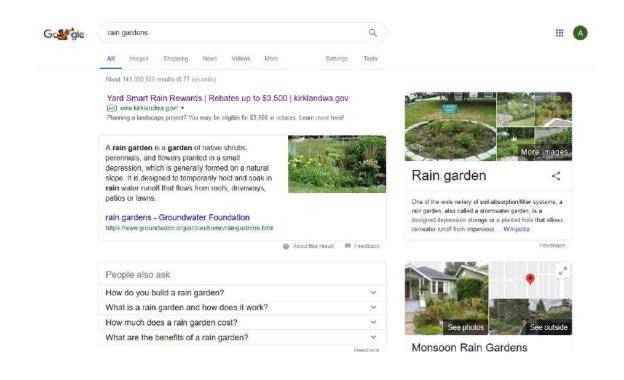


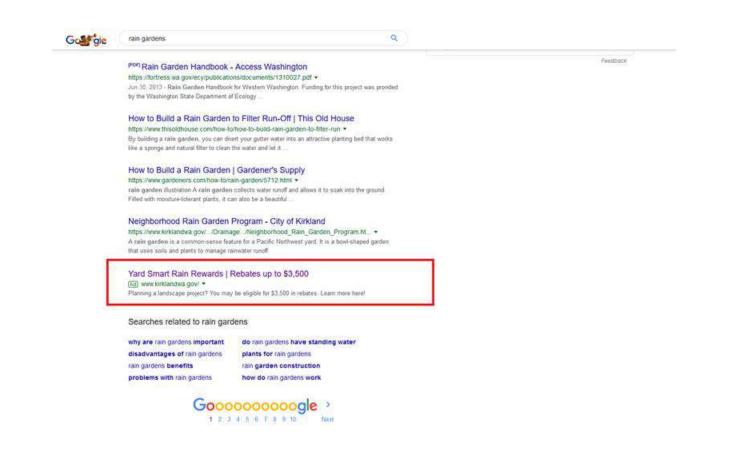
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Google Ads





City of Kirkland Email Newsletters

Yard Care

Yard Smart Rain Rewards. Kirkland's exciting new program, <u>Yard Smart Rain Rewards</u>, provides free technical assistance and rebates up to \$3,500 for property owners who install simple, earth-friendly landscaping projects on their property to help manage the flow of polluted rainwater. Property owners who live in the Forbes Creek Watershed are eligible to participate.



By installing simple projects like rain gardens, cisterns, and native landscaping, your property can help slow the flow of polluted rainwater runoff to Forbes Creek and Lake Washington, and allow it to soak into the ground where it can be naturally filtered. To learn more about this exciting program visit www.kirklandwa.gov/yardsmart or email yardsmart@kirklandwa.gov.

Spring Plant Sale. April 26-27, May 3-4, Lake WA Institute of Technology. Vegetable starts, hardy shrubs and trees, and a wide selection of annuals for sale. <u>Information about the plant sale, including plant choices.</u>

Are you planning a landscaping project this summer? Make it an earth-friendly project by participating in the City of Kirkland's newest program, <u>Yard Smart Rain Rewards</u>. This exciting new program provides free technical assistance and financial rebates up to \$3,500 to Kirkland property owners who install simple, earth-friendly landscape projects like rain gardens, rain capture cisterns, and native landscaping.

Why?

Every time it rains, water picks up and carries pollutants like oil, soap, fertilizer, pesticides, and pet waste from our roofs, driveways, patios, and lawns, into the nearest storm drain, and finally into local creeks and Lake Washington.

During big storms, the volume of rainwater runoff can cause neighborhood flooding and erosion hazards. In fact, the average Kirkland home produces more than 62,000 gallons of runoff each year, the equivalent of 2 bathtubs of water per day!

Yard Smart Rain Rewards projects are designed to capture that polluted rainwater before it leaves a property, slow its flow, and allow it to soak into the ground where pollutants can be filtered out naturally.

Join Today

Property owners in the Forbes Creek watershed (including large portions of North and South Rose Hill neighborhoods, and small portions of the Highlands, Juanita, and Norkirk Neighborhoods) are eligible to install a Yard Smart project and claim a Rain Rewards rebate.

Participants will receive a free consultation at their property to determine the project that is best suited for their budget, time, and goals. To learn more, determine your eligibility, or sign up for a free Yard Smart consultation, visit <u>kirklandwa.gov/yardsmart</u>. Each property consultation also includes a free bag of yard-friendly compost!

For more information, contact Kirkland's Yard Smart Rain Rewards program at 425-587-3857 or <u>yardsmart@kirklandwa.gov</u>.

Social Media



Kirkland, WA - Government February 21 at 1:04pm •

Be Yard Smart, Get Rain Rewards! The City of Kirkland's newest program, Yard Smart Rain Rewards, provides property owners in the Forbes Creek watershed with technical assistance and financial rebates up to \$3,500 to install projects like rain gardens, rain capture cisterns, and native landscaping to slow the flow of polluted rainwater runoff and allow it to soak in naturally.

Find out if your property is eligible and learn how to be Yard Smart at kirklandwa.gov/yardsmart.

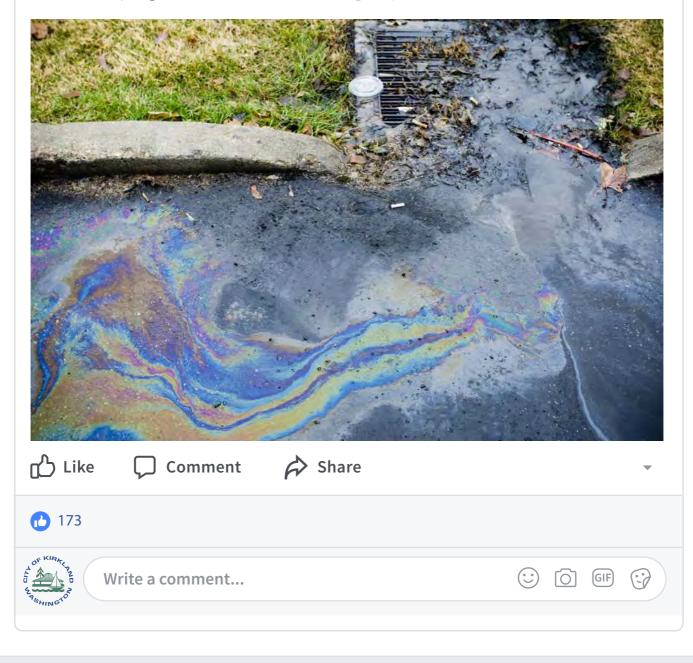




Kirkland, WA - GovernmentFebruary 21 at 1:04pm •

Did you know? Every time it rains, water picks up and carries pollutants from our roofs, driveways, patios, and lawns into the nearest storm drain, and finally into your local creek and Lake Washington. During storms, this rainwater can also cause neighborhood flooding and erosion. But your yard can be part of the solution!

Learn how to be Yard Smart and find out if you're eligible for up to \$3,500 in landscaping rebates at kirklandwa.gov/yardsmart.





Kirkland, WA - Government February 21 at 1:04pm • 😵

Are you planning a landscaping project this summer? Be Yard Smart and Get Rain Rewards! The City of Kirkland is offering free technical assistance and rebates up to \$7,000 for qualified property owners in the Forbes Creek watershed who install projects like rain gardens, rain capture cisterns, and native landscaping to help slow down and clean polluted rainwater runoff.

Learn how to be Yard Smart and find out if your property is eligible for Rain Rewards rebates at kirklandwa.gov/yardsmart.





We installed

to protect Forbes Creek.







This project has been funded wholly or in part by the United States Environmental Protection Agency under assistance agreement 01J18101 to Washington Department of Ecology.

kirklandwa.gov/yardsmart

Learn More

Appendix C - Program Resource Materials

- Web Pages
- Fact Sheets
 - Project Steps
 - o Rebates
 - o Rain Gardens
 - o Cisterns
 - o Native Landscaping
 - Downspout Disconnection
 - Tree Planting
- Contractor List

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- Installation Guides
 - o Tree Planting
 - Downspout Disconnection
 - Native Landscaping
 - Maintenance Guides
 - o Trees
 - Native Landscaping
 - o Cisterns
- Tree List City of Kirkland Staff Recommendations
- Tree Planting Program Materials
 - Department of Ecology Tree List
 - Online Tree Planting Course
- Tracking Spreadsheet

Web Pages



Yard Smart Rain Rewards



UPDATE 12/28/2020: We are now accepting new participants for Yard Smart Rain Rewards in 2021. Please continue reading through the eligibility information below before scheduling your site visit.

What?

Are you planning a landscaping project this year? Yard Smart Rain Rewards is an exciting opportunity for Kirkland homeowners to beautify their yards and help keep polluted rainwater runoff out of Lake Washington.

Qualified homes can take advantage of free technical assistance and rebates to install beautiful projects like rain gardens, native landscaping, and cisterns on their property to manage rain water runoff.

Why?

Every time it rains, water picks up and carries pollutants from our roofs, driveways, patios, and lawns, into the nearest storm drain, and finally into the nearest creek and Lake Washington. During big storms, the amount of rainwater runoff can cause neighborhood flooding and erosion hazards.



Your Yard Can Help!

How does Yard Smart Rain Rewards work?

1) Find Out if Your Property is Eligible

New for 2021: All Kirkland property owners are potentially eligible. However, only properties with downspouts currently connected to the City's stormwater drainage system are eligible for rebates. Properties with downspouts that are already disconnected are not eligible for rebates in 2021.

If your property has downspouts that connect into the ground, **you may be eligible**. Yard Smart staff will help verify whether your downspouts are connected and determine your eligibility at your site visit. The photos below demonstrate what connected and disconnected downspouts might look like:



Connected downspout



Disconnected downspout

2) Schedule a Free Project Consultation

Yard Smart Rain Rewards consultations are a free service to help find the project right for you, your landscape, your budget, and your goals. In order to be eligible to receive a Rain Rewards rebate, all participants must first complete a Yard Smart consultation.

Consultations consist of a 60 minute site visit that will take place at your property with one of our Yard Smart staff.

Please note: All participants are required to wear a mask and maintain physical distancing during a site visit. We ask that you please reschedule your site visit if you are experiencing any Covid-like symptoms or have recently been exposed to someone with a positive Covid-19 test result.

3) Choose Your Yard Smart Project

Eligible project types include rain gardens, rain capture cisterns, and native landscaping. All projects must result in at least 400 square feet of impervious surface being disconnected from the City's stormwater drainage system.

<u>Learn more about each project type, considerations, and requirements.</u> (<u>https://www.kirklandwa.gov/Government/Departments/Public-Works-Department/Storm-Surface-Water/Green-Stormwater-Infrastructure-GSI/Yard-Smart-Rain-Rewards/Yard-Smart-Types-of-Projects</u>)

4) Build Your Project

Once Yard Smart staff conducts a site visit on your property, we will send you a written report that includes a list of site-specific project options to reduce runoff from your property.

You can install more the one project on your property. Rebates ranges from 75 percent to 100 percent of project costs, up to \$3,000 or \$6,000 depending on property type.

<u>Project Steps Checklist</u> (PDF, 10MB) (/files/sharedassets/public/public-works/surfacewater/project-steps-checklist.pdf)

<u>Contractor List</u> (PDF, 2MB) (/files/sharedassets/public/public-works/surface-water/2021contractor-list.pdf) Project Approval Forms:

- <u>Native Landscaping, Cisterns, and Rain Gardens</u> (PDF, 650KB) (/files/sharedassets/public/public-works/surface-water/yard-smart-project-approvalform.pdf)
- <u>Downspout Disconnection Only</u> (PDF, 157KB) (/files/sharedassets/public/publicworks/surface-water/2021-downspout-disconnect-project-approval.pdf)</u>

5) Claim Your Rebate

For Single Family Homes, we will cover 75% of project costs up to \$3,000 for work done by contractors, or 100% of project costs up to \$3,000 for Do-It-Yourself (DIY) projects.

For Multi-Family Homes & Non-Residential Properties (commercial, industrial, non-profit, churches, etc), we will cover 75% of project costs up to \$6,000.

<u>Rebate Fact Sheet</u> (PDF, 185KB) (/files/sharedassets/public/public-works/surface-water/yardsmart-rebate-fact-sheet.pdf)

To Receive Rebate

- 1. After your project is installed, inform City of Kirkland staff (at <u>yardsmart@kirklandwa.gov</u>) (<u>mailto:yardsmart@kirklandwa.gov</u>)) that it is ready to be inspected.
- 2. City staff will inspect your project(s) and give approval of the installation, or provide any necessary changes.
- 3. After receiving final approval, submit a fully completed <u>Project Rebate Packet</u> (PDF, 318KB) <u>(/files/sharedassets/public/public-works/surface-water/2021-project-rebate-</u> <u>paperwork.pdf</u>), along with required attachments. For downspout disconnection only, use this <u>rebate form</u> (PDF, 126KB) (/files/sharedassets/public/public-works/surface-water/2021-<u>downspout-disconnect-rebate-form.pdf</u>).
- 4. A rebate check for the installed project(s) will be issued within one month from when your completed Project Rebate Packet is received by the City of Kirkland.

All projects must be installed by November 30, 2021.

Questions?

View our Frequently Asked Questions

<u>(https://www.kirklandwa.gov/Government/Departments/Public-Works-Department/Storm-Surface-Water/Green-Stormwater-Infrastructure-GSI/Yard-Smart-Rain-Rewards/Yard-Smart-FAQs)</u> or email <u>yardsmart@kirklandwa.gov</u> (mailto:yardsmart@kirklandwa.gov).

If you're not ready to install a Yard Smart project on your property, or your home is outside of the Rain Rewards eligibility area, Kirkland Public Works recommends everyday steps to <u>reduce</u> <u>polluted stormwater runoff (https://www.kirklandwa.gov/Government/Departments/Public-Works-Department/Storm-Surface-Water/What-You-Can-Do-For-Clean-Water)</u>.



Rebates for the 2021 Yard Smart Rain Rewards program are funded through the <u>King</u> <u>Conservation District Member Jurisdiction Grant Program (https://www.kingcd.org)</u>.



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Report Spills and Flooding

Call our 24/7 pollution and flooding hotline 425-587-3900 (tel:4255873900)

Contact Us

For non-emergency drainage or stormwater concerns, visit **Yard Smart Program Contact Aaron Hussmann** Education and Outreach Specialist <u>425-587-3857 (tel:4255873857)</u> <u>yardsmart@kirklandwa.gov (mailto:yardsmart@kirklandwa.gov)</u>

Yard Smart Resources

Getting Started

<u>Project Checklist</u> (PDF, 10MB) (/files/sharedassets/public/public-works/surface-water/projectsteps-checklist.pdf)

Potential Contractor List (PDF, 2MB) (/files/sharedassets/public/public-works/surface-

water/2021-contractor-list.pdf)

<u>Rebate Fact Sheet</u> (PDF, 185KB) (/files/sharedassets/public/public-works/surface-water/yardsmart-rebate-fact-sheet.pdf)

Frequently Asked Questions

(https://www.kirklandwa.gov/Government/Departments/Public-Works-

<u>Department/Storm-Surface-Water/Green-Stormwater-Infrastructure-GSI/Yard-Smart-Rain-Rewards/Yard-Smart-FAQs</u>)

Approval Forms

<u>Project Approval Form - Native Landscaping, Cisterns, and Rain Gardens</u> (PDF, 650KB) (/files/sharedassets/public/public-works/surface-water/yard-smart-project-approvalform.pdf)

(PDF, 650KB) (/files/sharedassets/public/public-works/surface-water/yard-smart-projectapproval-form.pdf) Project Approval Form - Downspout Disconnection Only (PDF, 157KB) (/files/sharedassets/public/public-works/surface-water/2021-downspout-disconnectproject-approval.pdf)

Rebate Forms

<u>Project Rebate Form - Native Landscaping, Cisterns, and Rain Gardens</u> (PDF, 318KB) (/files/sharedassets/public/public-works/surface-water/2021-project-rebatepaperwork.pdf)

<u>Project Rebate Form - Downspout Disconnection Only</u> (PDF, 126KB) (/files/sharedassets/public/public-works/surface-water/2021-downspout-disconnectrebate-form.pdf)





Rain Gardens



About: Rain gardens are bowl-shaped gardens designed to collect and filter water from your roof, driveway, or patio. Rain gardens can be shaped and sized to fit your yard, are filled with a rich layer of mulch and compost to help water soak in, and are landscaped with a variety of plants that fit your yard, sun, and soil.

A rain garden will reduce water pollution, replenish the groundwater supply and provide a self-irrigating landscape. By slowing down rainwater runoff and filtering pollution, it helps protect our local creeks and reduces flooding in our neighborhoods. It also provides great habitat for birds and butterflies.

Eligibility Criteria:

- Your property must be currently connected to the City stormwater drainage system.
- The rain garden must collect runoff from a minimum of 400 square feet of impervious surface area (800 sf for commercial, institutional, and industrial properties) being disconnected from the stormwater system.
- All other technical project requirements are listed in the Project Approval (LINK) packet.

Considerations:

- Your property needs a fairly level yard with a slope less than 5%
- Rain gardens need to be located at least 10 feet away from your foundation and at least 50 feet away from steep slopes.
- Rain gardens need well-draining soil. An soil drainage test will determine if a rain garden is right for your property.

Resources:

- <u>Rain Garden Fact Sheet</u> (PDF, 4MB) (/files/sharedassets/public/public-works/surfacewater/2021-rain-garden-fact-sheet.pdf)
- <u>Western Washington Rain Garden Handbook</u>
 <u>(https://apps.ecology.wa.gov/publications/publications/1310027.pdf)</u>
- <u>How to Conduct a Soil Drainage Test</u> (PDF, 212KB) (/files/sharedassets/public/publicworks/surface-water/infiltration-test-worksheet.pdf)

Cisterns



About: A cistern is a large rain barrel that collects hundreds to thousands of gallons of water. Made of durable materials like metal, heavy plastic, or fiberglass, cisterns fill with water from your roof, gutters, and downspouts. Cisterns can help slow the flow of rainwater that floods our neighborhoods and creeks, and provide you with water to irrigate your lawn and garden each summer!

Eligibility: Cisterns must drain a minimum roof area of 400 square feet for single-family residential properties, or 800 square feet for multi-family, commercial, and industrial properties.

Considerations:

- Cistern overflow must discharge at least 5 feet from the house foundation.
- Cisterns must be placed at least 5 feet from property lines.
- Full cisterns can weigh thousands of pounds. Careful placement and a sturdy foundation will keep your cistern safe and secure.
- Dark colored cisterns in shaded locations will limit algae growth, reduce maintenance needs, and prolong the life of your cistern.

Resources:

- <u>Kirkland Cistern Fact Sheet</u> (PDF, 9MB) (/files/sharedassets/public/public-works/surfacewater/2021-cistern-fact-sheet.pdf)
- <u>DIY Cistern Installation Guide (https://700milliongallons.org/wp-</u> <u>content/uploads/2020/08/Installing-cisterns-in-your-garden.pdf)</u> from Seattle Public Utilities.
- <u>Cistern Maintenance Guide</u> (PDF, 2MB) (/files/sharedassets/public/public-works/surfacewater/diy-cistern-maintenance-guide.pdf)
- <u>Cistern and rain barrel sources</u> (<u>https://www.kingcounty.gov/services/environment/stewardship/nw-yard-and-garden/rain-barrels.aspx</u>)
- <u>Using Cistern/Roof Water for Edible Vegetable Gardens</u> (<u>https://www.sightline.org/2015/01/07/a-green-light-for-using-rain-barrel-water-on-</u>

Native Landscaping



About: Native landscaping is the removal some of your less permeable surfaces – such as patios or lawns - and replacing them with native plants and cultivars that have deeper root systems and amended soils. Native landscaping requires less water and maintenance, and is more capable of absorbing rainwater runoff.

Eligibility:

- Must receive runoff from 400 square feet (800 square feet for commercial) of impervious area.
- Must be at least 50% Pacific Northwest native plants by plant count.

Considerations:

• New and young plants need water to grow strong roots. Watering is essential during the first two to three summers after native landscaping installation.

Resources:

- <u>DIY Native Landscaping Guide</u> (PDF, 6MB) (/files/sharedassets/public/publicworks/surface-water/do-it-yourself-native-landscaping-guide.pdf)
- <u>Native Landscaping Maintenance Guide</u> (PDF, 7MB) (/files/sharedassets/public/publicworks/surface-water/native-landscaping-maintenance-guide.pdf)
- <u>King County Native Plant Finder</u> (<u>https://green2.kingcounty.gov/gonative/Plant.aspx?Act=search</u>)

Downspout Disconnection



What? Many downspouts connect our roof gutters to underground pipes that carry water to our local creeks and Lake Washington. Disconnecting your downspout from existing standpipes can be accomplished fairly easily with an elbow, pipe extension, and splash block.

Considerations:

- Disconnect no more than 700 square feet of roof area to a single downspout or splashblock.
- Downspouts should not be disconnected within 50 feet of steep slopes or landslide hazard areas.
- Downspouts should discharge at least 5 feet from your house foundation.

Resources:

• <u>DIY Downspout Disconnection Guide</u> (PDF, 4MB) (/files/sharedassets/public/publicworks/surface-water/kirkland-diy-downspout-disconnection-guide.pdf)

Emergency Notice

City facilities are open as of August 2, 2021 for public in-person services, with the exception of fire stations that will remain closed to the public until further notice. Many city services are available online. Find more information as well as resources for businesses and residents here:

<u>COVID-19 Coronavirus Information (https://www.kirklandwa.gov/Resident/Public-Safety/COVID-19-Coronavirus-Information)</u>





Home (https://www.kirklandwa.gov/Home) / Government (https://www.kirklandwa.gov/Government) / Departments (https://www.kirklandwa.gov/Government/Departments) / Public Works Department (https://www.kirklandwa.gov/Government/Departments/Public-Works-Department) / Storm & Surface Water (https://www.kirklandwa.gov/Government/Departments/Public-Works-Department/Storm-Surface-Water) / Green Stormwater Infrastructure (GSI)

(https://www.kirklandwa.gov/Government/Departments/Public-Works-Department/Storm-Surface-Water/Green-Stormwater-Infrastructure-GSI) / Yard Smart Rain Rewards

(https://www.kirklandwa.gov/Government/Departments/Public-Works-Department/Storm-Surface-Water/Green-Stormwater-Infrastructure-GSI/Yard-Smart-Rain-Rewards) / Yard Smart Frequently Asked Questions

Yard Smart Frequently Asked Questions



Frequently Asked Questions

Is there a time limit to install a project?

All projects must be installed and rebate paperwork submitted by November 30, 2021 in order to receive a rebate.

Are there still rebate funds available?

Yes. 100% of rebate funds are available as of January 2021. Rebates will be issued to approved projects in the order that their approval forms are submitted. Projects will be added to a wait list for future funding if rebate funding runs out.

What if rebate funds run out before I can finish my project?

If your Yard Smart project is approved by City of Kirkland, we will ensure that there are rebate funds available for your project. If you submit your project approval forms after rebate funds have run out, we will add your project to a wait list in the order it was received in the event that additional funds become available.

Are there any earlier site visit appointments available?

We are thrilled by the high volume of interest Kirkland property owners have shown in Yard Smart Rain Rewards. Unfortunately, this high volume means that consultations earlier than what are shown on <u>Calendly (http://www.calendly.com/yardsmart)</u> are not available.

My downspouts are already disconnected and I am not eligible for Yard Smart funding. How can I be Yard Smart?

While your property is not eligible for the Yard Smart program, you may want to check out the Green Stormwater Infrastructure (GSI) Mini Grants program. This program provides up to \$1,500 for homeowners within the King County Wastewater Treatment Division (WTD)

service area that are not eligible for other incentive programs. Approved green infrastructure project types include rain gardens, cisterns, Grattix, green roofs and Depave projects. Please visit **www.12000raingardens.org/gsi-mini-grants**/ (http://www.12000raingardens.org/gsi-mini-grants/) for more information and to apply.

In your daily life, you can be Yard Smart by practicing <u>Natural Yard Care</u> (<u>https://www.kirklandwa.gov/Government/Departments/Public-Works-</u> <u>Department/Storm-Surface-Water/What-You-Can-Do-For-Clean-Water/Natural-Yard-Care</u>), installing <u>Green Stormwater Infrastructure</u> (<u>https://www.kirklandwa.gov/Government/Departments/Public-Works-</u> <u>Department/Storm-Surface-Water/Green-Stormwater-Infrastructure-GSI</u>) on you property, and <u>preventing water pollution at home</u> (<u>https://www.kirklandwa.gov/Government/Departments/Public-Works-</u> <u>Department/Storm-Surface-Water/What-You-Can-Do-For-Clean-Water</u>].

Report Spills and Flooding

Call our 24/7 pollution and flooding hotline 425-587-3900 (tel:4255873900)

Contact Us

For non-emergency drainage or stormwater concerns, visit **Yard Smart Program Contact Aaron Hussmann** Education and Outreach Specialist <u>425-587-3857 (tel:4255873857)</u> <u>yardsmart@kirklandwa.gov (mailto:yardsmart@kirklandwa.gov)</u> Fact Sheets







1. Get Started

Read your site visit report.

City staff will follow up within 1 week to answer any questions and provide guidance for next project steps.

Choose a project to install.

This can be one recommended project, or a combination of multiple recommended projects.

2. Build Your Project

Decide on DIY project or hiring a contractor.

If hiring a contractor, consider getting 3 bids. If you're building the project yourself, read our installation guides in your project packet or online at www.kirklandwa.gov/yardsmart

Submit Project Approval Form.

City staff will approve your project within 2 weeks. Approval may include requests for changes to your plan.

Install your project.

Be sure to save itemized receipts and proof of payment.

3. Get Your Rebate

Have your project inspected.

Contact City staff (<u>yardsmart@kirklandwa.gov</u> or 425-587-3857) to schedule your inspection. This ensures your final installation matches the approved project plan.

Complete rebate forms.

These forms include the Project Rebate Form, W-9, and Maintenance Agreement.

Get your rebate check!

For Single-Family Homes:

75% of Project Costs up to \$3,000 for work done by contractors. 100% of Project Costs up to \$3,000 for DIY projects.

For Multi-Family Homes & Commercial Properties: 75% of Project Costs up to \$6,000



RAIN

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NATIVE LANDSCAPING

Learn More

Online kirl **Email** yar **Phone** (42

kirklandwa.gov/yardsmart yardsmart@kirklandwa.gov (425) 587 - 3857



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Single-Family Properties

75% of project costs for work done by contractors.100% of project costs for DIY projects.

Maximum Rebate \$3,000

Multi-Family and Non-Residential Properties

75% of project costs.

Maximum Rebate \$6,000

RAIN GARDENS

 Roof area. Rain gardens must drain a minumum roof area of 400 square feet for single-family or 800 square feet for multi-family or non-residential



 Roof area. Cisterns must drain
 a minumum roof area of 400 square feet.

Capacity. Cisterns must have a minimum capacity of 200 gallons.

NATIVE LANDSCAPING

 Converted area. Native
 landscaping must receive runoff from at least 400 square feet of impervious area, or 800 square feet for multi-family or nonresidential property.

TREE PLANTING

Up to a \$150 Rebate per tree planted.

property.

Trees must be approved prior to planting.

DOWNSPOUTS

\$50 Rebate per downspout disconnected.



Project plans must be reviewed and approved by City of Kirkland staff before installation in order to receive a rebate.

Please Note: Yard Smart Rain Rewards rebates may be considered income under federal tax law. You must complete IRS Form W-9 to receive your rebate.

Learn More

Online	kirklandwa.gov/yardsmart
Email	yardsmart@kirklandwa.gov
Phone	(425) 587 - 3857



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RAIN GARDENS

What?

Rain gardens are bowl-shaped gardens designed to collect and filter water from your roof, driveway, or patio. Rain gardens can be shaped and sized to fit your yard, are filled with a rich layer of mulch and compost to help water soak in, and are landscaped with a variety of plants that fit your yard, sun, and soil.

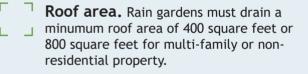




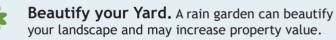
Every time it rains, water carries pollutants from our roofs, driveways, patios, and lawns, into the nearest storm drain, and into Forbes Creek and Lake Washington. During big storms, the amount of rainwater runoff can cause neighborhood flooding and erosion hazards.

Rain gardens help slow the flow of rainwater that floods our neighborhoods and creeks, and help filter water to prevent pollution.











Create a Sanctuary. Rain gardens filled with the site appropriate plants attract a variety of birds and pollinators like butterflies.

Reduce Maintenance. Once established, rain gardens require less maintenance and resources than traditional lawns or gardens.

Be Yard Smart,

Get Rain Rewards Rebates!

For Single-Family Homes:

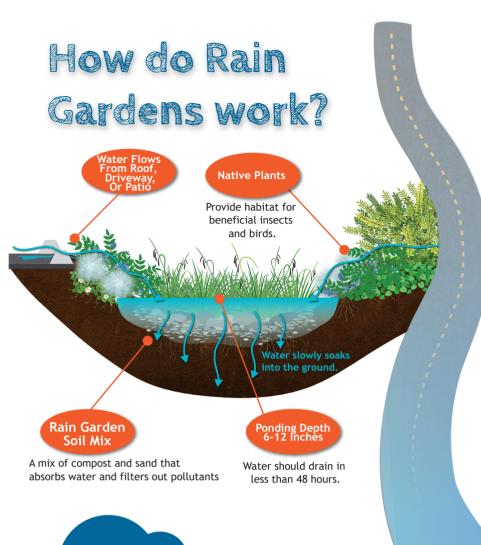
75% of Project Costs up to \$3,000 for work done by contractors.

100% of Project Costs up to \$3,000 for DIY projects.

For Multi-Family Homes & Commercial Properties: 75% of Project Costs up to \$6,000



Befor



Considerations

Your property needs a fairly level yard with a slope less than 5%

Rain gardens need to be located away from large treesand at least 10 feet from your foundation.



Rain gardens need well-draining soils to allow water to soak in. An infiltration test will determine if a rain garden is right for your property.



Rain garden costs vary depending on site, labor, equipment, turf or pavement removal, size and number of plants, and complexity of garden.



Young plants need water to grow strong roots. Watering is important during the first two to three summers after you install your rain garden.

Rain Rewards Rebates Can Reduce Your Costs!

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Steps

1. Project Design

Test your soils to ensure they are well-draining. Choose a location, planting plan, and drainage system into and out of the rain garden. This can be done DIY or with the help of a contractor.

2. Review & Approval

Complete a project approval form. City of Kirkland staff will approve or suggest changes to your plan within 2 weeks.

3. Construction & Installation

Hiring a contractor? Consider getting 3 bids. Whether DIY or through a contractor, save all itemized receipts and proofs of payment.

4. Final Review

Once your Rain Garden is finished, contact us for a final inspection.

5. Get Your Rebate

Fill out our Project Rebate Form, W-9, and Maintenance Agreement. Get Your Rebate Check!

6. Maintain Your New Rain Garden

Water your plants each summer, pull weeds by hand, and replace any dead or dying plants each fall.



Learn More

Online	kirklandwa.gov/yardsmart
Email	yardsmart@kirklandwa.go
Phone	(425) 587 - 3857







CISTERNS

What?

A cistern is a large rain barrel that collects hundreds to thousands of gallons of water. Made of durable materials like metal, heavy plastic, or fiberglass, cisterns fill with water from your roof, gutters, and downspouts.





Every time it rains, water carries pollutants from our roofs, driveways, patios, and lawns, into the nearest storm drain, and into Forbes Creek and Lake Washington. During big storms, the amount of rainwater runoff can cause neighborhood flooding and erosion hazards.

Cisterns can help slow the flow of rainwater that floods our neighborhoods and creeks, and provide you with water to irrigate your lawn and garden each summer!

Eligiblity

Roof area. Cisterns must drain a minumum roof area of 400 square feet.



Capacity. Cisterns must have a minimum capacity of 200 gallons.





Easy to Maintain. Cisterns need simple maintenance 1-2 times each year.



Collects Water. Cisterns collect extra water that's free to use for your garden and lawn each summer.

Soaks In. Cisterns allow excess water to slowly release and soak into the ground, reducing flooding and preventing pollution from entering Forbes Creek.

Be Yard Smart,

Get Rain Rewards Rebates!

For Single-Family Homes:

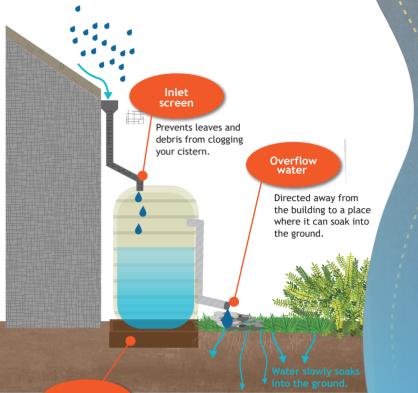
75% of Project Costs up to 3,000 for work done by contractors.

100% of Project Costs up to \$3,000 for DIY projects.

For Multi-Family Homes & Commercial Properties: 75% of Project Costs up to \$6,000



How do Cisterns work?



Sturdy base for stability

Cisterns have a drain valve that you can open or close. In the winter months, keep the drain valve open to allow heavy rains to fill the cistern and slowly drain out over time. In mid-May, close the drain valve so your cistern fills with water to be used for summer landscape irrigation.

Considerations



Cistern overflow should be a minimum of 4 feet away from building foundations and overflow to your landscape, rain garden, or back to the downspout.



Full cisterns can weigh thousands of pounds. Careful placement and a sturdy foundation will keep your cistern safe and secure.

A dark colored tank and shaded location will limit algae growth, reduce maintenance needs, and extend the lifespan of your cistern.

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1. Project Design

Decide how big of a cistern you need. Decide on cistern placement and overflow options. You can do this yourself or with the help of a contractor.

2. Review & Approval

Complete a project approval form. City of Kirkland staff will approve or suggest changes to your plan within 2 weeks.

3. Construction & Installation

Hiring a contractor? Consider getting 3 bids. Whether DIY or through a contractor, save all itemized receipts and proofs of payment.

4. Final Review

Once your Cistern is installed, contact us for a final inspection.

5. Get Your Rebate

Fill out our Project Rebate Form, W-9, and Maintenance Agreement. Get Your Rebate Check!

6. Maintain Your New Cistern

Clean your tank each year by hosing out and brushing. Clean your gutters and check your cistern screen at least once a year.

Learn More

Online Email Phone kirklandwa.gov/yardsmart yardsmart@kirklandwa.gov (425) 587 - 3857







NATIVE Landscaping

What?

Native landscaping replaces traditional lawns or impervious surfaces with a thick mulch layer and native plants to beautify your yard and reduce polluted rainwater runoff. Native landscaping uses less water and requires less maintenance than traditional lawns or gardens, and creates a healthy, attractive yard.



Every time it rains, water carries pollutants from our roofs, driveways, patios, and lawns, into the nearest storm drain, and into Forbes Creek and Lake Washington. During big storms, the amount of rainwater runoff can cause neighborhood flooding and erosion hazards.

Native landscaping soaks up rainwater to help prevent flooding in our yards and neighborhoods, and helps filter pollutants to provide clean water for Forbes Creek.



Converted area. Native landscaping
 must replace a minimum 400 square feet of traditional lawn, invasive weeds, or impervious area, or 800 square feet for multi-family or non-residential property.

Benefits



Create a Sanctuary. Native Landscaping attracts beneficial insects and birds.



Low Maintenance. Native Landscaping means less watering, no mowing, and more time to relax.



Soaks In. Native landscaping allows excess water to slowly release and soak into the ground, reducing flooding and preventing pollution from entering Forbes Creek.

Be Yard Smart,

Get Rain Rewards Rebates!

For Single-Family Homes:

75% of Project Costs up to \$3,000 for work done by contractors.

100% of Project Costs up to 3,000 for DIY projects.

For Multi-Family Homes & Commercial Properties:

75% of Project Costs up to \$6,000

What is Native Landscaping?

Native plants are adapted to our Pacific Northwest environment, are drought-resistant, and don't require fertilizer.



Water slowly soaks into the ground.



Low Oregon Grape

A low shrub, blooms with yellow flowers and purple fruits.

Swordfern

Very adaptable, a stately groundcover and Pacific Northwest favorite.

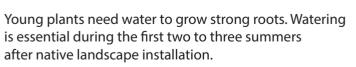
Vine Maple

Famous for fall color, excellent at holding soil.

Showy Fleabane

A summer blooming perennial with purple petals and yellow center.





Steps

1. Project Design

Decide on an area to convert to native landscaping and create a plant list of your favorite native plants. You can do this yourself or with the help of a contractor.

2. Review & Approval

Complete a project approval form. City of Kirkland staff will approve or suggest changes to your plan within 2 weeks.

3. Construction & Installation

Hiring a contractor? Consider getting 3 bids. Whether DIY or through a contractor, save all itemized receipts and proofs of payment.

4. Final Review

Once your native landscaping is installed, contact us for a final inspection.

5. Get Your Rebate

Fill out our Project Rebate Form, W-9, and Maintenance Agreement. Get Your Rebate Check!

6. Maintain Your New Landscape

Water your plants each summer, pull weeds by hand, and replace any dead or dying plants each fall.

Learn More

Onlinekirklandwa.gov/yardsmartEmailyardsmart@kirklandwa.govPhone(425) 587 - 3857



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DOWNSPOUT DISCONNECTION

What?

Many downspouts connect our roof gutters to undergound pipes that carry water to our local creeks and Lake Washington. Disconnecting your downspout from existing standpipes can be accomplished fairly easily with an elbow, pipe extension, and splash block.



Disconnecting downspouts helps keep roof runoff from carrying pollutants to our local waters, and helps prevent flooding. Done correctly, disconnected downspouts direct water away from your house toward a landscaped area where rainwater can soak into the ground naturally.

Disconnecting downspouts helps prevent flooding in our neighborhoods, and helps filter pollutants to provide clean water for Lake Washington.



Low Maintenance. Once disconnected, downspouts are easy to maintain and can provide irrigation to your landscape.



Roof area. Route no more than 700 square feet of roof area to a single splash-block.



- **No steep slopes.** Downspouts should not be disconnected within 50 feet of steep slopes or landslide hazard areas.
- **Space.** Downspouts must discharge more than 5 feet from property lines, and 10 feet from buildings.

Be Yard Smart,

Get Rain Rewards Rebates!

City of Kirkland will rebate \$50 per downspout disconnected. Formal approval is required before disconnection in order to receive rebate.

Learn More Online kirklandwa.gov/yardsmartEmail yardsmart@kirklandwa.govPhone (425) 587 - 3857



TREE PLANTING REBATES

What?

City of Kirkland provides rebates up to \$150 per tree and a maximum rebate of \$500 per property to cover the costs of trees, compost, and mulch.





Trees help prevent flooding in our neighborhoods, provide shade for our homes and help filter pollutants to provide clean water for Lake Washington. Trees catch rainfall on their leaves, needles, and branches, slowing down the flow of rainwater. Their roots allow rainwater to more easily filter into the soil, and they absorb water and transpire it through their leaves or needles back into the atmosphere.



Space. Trees should be planted 10 feet from underground utilities and permanent buildings, 20 feet from street lights or other trees, and 30 feet from street corners. Trees near power lines should grow to less than 25 feet tall.

Size. Trees must be a species that reaches 15 feet tall and has a canopy at least 10 feet wide at maturity.

Appropriate. Trees must be selected from approved list provided by City of Kirkland and be appropriate for your site.

Steps

- 1) Participants must take and pass Kirkland's online tree planting course.
 - Sign and submit a maintenance agreement **prior to purchasing or planting trees.**

Purchase and plant your tree. Trees must be purchased from the **approved list** provided after your online tree course.

Submit the online rebate form. You'll need a
 W-9, photo of planted tree(s), proof of payment and itemized receipts, photo of nursery tag from tree(s).



Learn More

Online - kirklandwa.gov/treerebate Email - ahussmann@kirklandwa.gov



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The firms below perform landscaping services eligible for the Yard Smart Rain Rewards program. City of Kirkland makes no recommendations whatsoever regarding these firms.

You are not required to use a contractor from this list.

We recommend getting 3 bids before hiring a contractor.

POTENTIAL CONTRACTORS

	Native Landscaping Design	Native Landscaping Installation	Rain Garden Design	Rain Garden Installation	Cistern Installation
Cascadia Edible Landscapes www.eatyouryard.com michael@eatyouryard.com (206) 708-9298	•	•	•	•	
Classic Nursery & Landscape Co. www.classicnursery.com info@classicnursery.com (425) 885-5678	•	•		•	
Dig In LLC jodylynnanderson@msn.com (206) 550-2962	*Can als	o help purchase plants fo	or DIY projects		
Dirt Corps LLC www.thedirtcorps.com info@thedirtcorps.com	•	•	•	•	
Elemental Landscapes www.elemental206.com elemental206@gmail.com (206) 953-8152	•		•	•	
Environmental Construction Inc. www.envconst.com info@envconst.com (425) 803-3988	•	•	•	•	
Greencliff Landscape Co. www.greencliff.net crane@greencliff.net (206) 650-7096					
Greenridge Landscape dba Wolfe's Landscap www.greenridgellc.com greenwolfes@gmail.com (425) 743-1481	ing		•	•	



The firms below perform landscaping services eligible for the Yard Smart Rain Rewards program. City of Kirkland makes no recommendations whatsoever regarding these firms.

You are not required to use a contractor from this list.

We recommend getting 3 bids before hiring a contractor.

POTENTIAL CONTRACTORS

	Native Landscaping Design	Native Landscaping Installation	Rain Garden Design	Rain Garden Installation	Cistern Installation	
Headwaters Landworks headwaterslandworks@gmail.com (425) 802-7221	•	•	•	•		
Justin's Landscaping justinslandscaping.business.site jhowell3600@gmail.com (206) 390-1463	•	•	•	•	•	
Lumo Landscape Design LLC www.lumolandscape.com lumolandscape@gmail.com (206) 349-7092	•	•	•	•		
Malone's Landscape www.maloneslandscape.com info@maloneslandscape.com (253) 638-2080	•	•	•	•		
Rain Dog Designs www.raindogdesigns.com/wordpress raindogdesigns@gmail.com (253) 459-3539	•		•	•		
Satoyama Gardens www.satoyamagardens.com aaron@satoyamagardens.com (971) 212-3953	•		•	•	•	
Thriving Garden Design Inc. www.thriving-garden.com thriving.gardens@gmail.com (206) 326-9732	•	•	•	•	•	
Learn More				2957	Page 2 of 2	2
Online kirklandwa.gov/yardsmart Em	nail yardsmart@kirkla	andwa.gov	Phone (425) 587 ·	- 3857	rase & vi &	A

Installation Guides

Planting trees creates a canopy, or "umbrella" of leaves that helps provide shade and reduces the intensity of rainfall before it hits the ground. It is an easy, affordable way to help the environment.











DIY TREE PLANTING

CHOOSE YOUR TREE

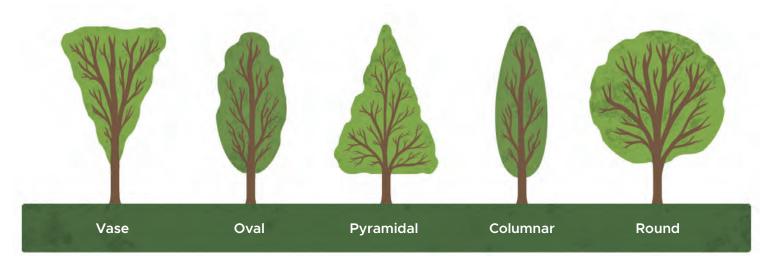
Things to consider when choosing your tree:

- 1. **Tree function.** Why are you planting the tree? What functions will it serve?
 - Evergreen trees keep their leaves all year and are good for privacy, wind breaks and shading hot areas.
 - **Deciduous trees** lose their leaves every year and provide shade in the summer while allowing for winter sun.
 - A tree that produces **fruit can provide food** for you or wildlife.
 - Trees can provide **visual interest** flowers in the summer or spring, fall leaf color, beautiful winter bark.
- 2. Form and size. Selecting the right shape and size of tree reduces maintenance and increases your tree's value for the landscape.
 - Height. Will the tree bump into anything when fully grown?
 - Canopy spread. How wide will the tree grow?
 - **Tree shape.** A columnar tree will grow in less space while round and v-shaped trees provide the most shade. Select a tree shape that complements what you would like the tree to do for your landscape.
 - **Root space.** How close is your house foundation, sidewalk, or driveway? You can expect that roots will grow at least a wide as the canopy of the tree and will stay near the surface of the soil.
- 3. **Soil, sun and moisture conditions** of your site. Selecting a tree that will thrive in your site's conditions is the key to long-term tree survival and reduced maintenance.
- 4. **Health.** Pick a healthy tree from the nursery with a strong central trunk, balanced shape, no signs of damage.









CHOOSE THE RIGHT PLACE

Carefully selecting a location for your new tree helps ensure that it will be healthy and survive for years to come without excessive maintenance or causing trouble for your property's infrastructure.

Make sure you have enough room for the tree to grow.

Make sure you select a location with adequate room to grow both below ground for roots and above ground for the crown. Consider the mature height, canopy spread, and root spread of your tree when thinking about a location.

- Plant your tree on private property, not in the right of way.
- Avoid utilities. Locate trees at least 10 feet from underground utilities and plant smaller trees (less than 25 feet when fully grown) under power lines.

CALL BEFORE YOU DIG!

CALL 811 OR VISIT CALLBEFOREYOUDIG.ORG TO REQUEST A FREE UTILITY LOCATE. IT'S FREE AND IT'S THE LAW.





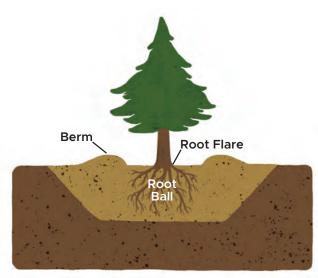
PLANT YOUR TREE

When to plant

- Trees and woody shrubs are ideally planted in the fall to support root establishment before the spring growing season
- Avoid planting in the summer or when the ground is frozen

STEPS:

- 1. **Clear the area.** Remove material (sod, weed, mulch) from planting area to expose soil.
- 2. **Dig a shallow, wide planting hole.** Measure the height of the root ball. Dig a hole that is as deep as the height of the root ball and 2-3 times the width.
- 3. Remove the tree from its container. Lay the tree on its side and push on the sides of the container to loosen the root ball from the sides of the container. Carefully remove the tree from the container keeping the soil around the roots intact. Don't yank the tree out of the container by the trunk as this can separate the roots from the tree.
- Locate the root flare. Remove any excess soil piled on top of the root flare (or root collar) of your tree – the widened base of the main stem just above where the roots start.





- 5. **Massage the roots.** Massage the roots on all sides, including the bottom, so they are loose and ready to grow out horizontally. Straighten or remove circling roots. If the tree is really root bound and the roots are circling around the edges of the container, cut an X across the bottom of the root ball and then 4 vertical slices along the sides of the root ball with a sharp-edged trowel.
- 6. **Remove any nursery stakes or tags.** These will not help support your new tree and will only cause harm to your tree as it grows.
- 7. Place tree in the hole. Make sure the trunk is straight – have someone view the tree from several directions to confirm that it is straight. In the hole, the root flare of your tree should be visible just above the ground.
- 8. **Fill the hole.** Backfill around the root ball with original soil, breaking up any large chunks and gently packing the soil between roots. Use the remaining soil to create a berm (a low ring of dirt) outside the root ball perimeter.
- 9. **Water.** Water thoroughly right after planting to help remove air pockets.
- 10. **Mulch.** Spread 2-3" deep ring of mulch or arborist wood chips around the base of your tree, keeping it about a hands-width away from your new tree.



Kirkland Public Works -Surface Water Division www.kirklandwa.gov/stormwater



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Disconnecting downspouts from pipes in the street helps keep roof runoff from carrying pollutants to our local waterways and helps prevent flooding. Done correctly, disconnected downspouts direct water away from your house toward a landscaped area where rainwater can soak into the ground.







DIY DOWNSPOUT DISCONNECTION

READY TO DISCONNECT YOUR DOWNSPOUT?

Develop a plan to ensure that the water soaks into the ground without damaging your house or neighboring properties. Remember these key tips:

- Figure out where your downspouts drain do they go to a pipe in the street, to a nearby stream, or somewhere else?
- If your downspouts already connect to an infiltration trench or drywell, you're all set! No need to disconnect.
- Make sure the ground slopes away from your buildings and neighboring property lines (and no steeper than 15%). Don't flood sidewalks, basements, or your neighbors.
- Provide enough space for rain to safely soak into the ground. Yard area must be at least 10% of the roof area that drains to downspout (i.e., 500 square feet of roof needs at least 50 square feet of yard).

- Downspout extensions must be directed to at least:
 - ✓ 5 feet from buildings with crawlspaces
 - ✓ 10 feet from buildings with basements
 - ✓ 5 feet from property lines
 - ✓ 10 feet from neighboring buildings
 - ✓ 50 feet from steep slopes
- Slow and spread the flow from downspout with a splash block, rock, or perforated pipe.
- Hire a contractor, if needed, to advise your or to do the work.
- Contact Kirkland Public Works at 425-587-3800 with guestions regarding your downspout disconnection plan.



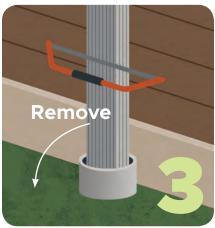
MATERIALS YOU'LL NEED

HOW TO DISCONNECT YOUR DOWNSPOUT

1. Safety first! Put on work gloves and eye protection.



2. Measure the existing downspout from the top of the standpipe (the pipe going into the ground) and mark it at about 9 inches above the standpipe. You may need to cut the downspout higher depending on the length of your extension.

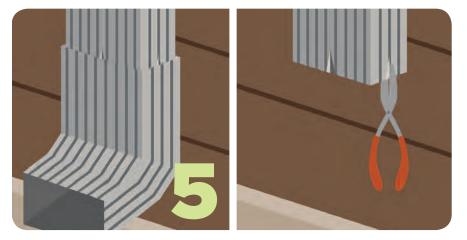


 Cut the existing downspout with a hacksaw at the mark

 hold onto the short piece so it doesn't fall into the pipe. Remove the cut piece from the end of the standpipe.



 Plug or cap the standpipe using an expansion plug or an over-the-pipe cap secured by a hose clamp. Measure the inside diameter of the pipe and ask at the hardware store for the right size. Do NOT use concrete to seal your standpipe.



5. Attach the elbow. Be sure to attach the elbow OVER the downspout. Do NOT insert the elbow up inside the downspout or it will leak. If the elbow does not fit over the downspout, use crimpers or needle-nose pliers to crimp the end of the cut downspout so it slides INSIDE the elbow.

Downspouts must drain at least 10 feet from basement walls and at least 5 feet from crawlspaces and concrete slabs.

The end of the downspout must be at least 5 feet from your property line.



6. Measure and cut the downspout extension to the desired length. Attach the extension to the elbow by slipping the extension OVER the end of the elbow. Do NOT install the elbow over the extension or it will leak. The length of the extension will depend on site conditions and where you want the downspout to drain.



7. Secure the pieces with sheet metal screws at each joint where the downspout, elbow, and extension connect. You only need to use 2 screws per joint. Never put any screws on the bottom of the parts because it will leak. It helps to pre-drill holes for the screws.



 Add a new hanger bracket around the downspout above the cut, if needed to support the downspout and the new elbow and pipe you are adding.



9. Add a splashblock, rock or perforated pipe at the end of the pipe extension to slow the flow and spread runoff into landscaping.

MAINTENANCE



Proper maintenance of your gutters and downspouts can reduce problems.

At least twice a year you should:

- Clean roof gutters. This is especially important if you have overhanging trees.
- Check downspouts, elbows, and extensions for blockages.



Kirkland Public Works -Surface Water Division

www.kirklandwa.gov/stormwater

- Repair any damage or visible leaks at connection points.
- **D** Ensure gutters drain into your downspouts.

Disclaimer: This sheet contains general guidance only, which may not be appropriate or safe for every property. You assume the risk and are responsible for all consequences of your modifications to drainage flow on your property, for legal compliance, and for necessary permits and authorizations. The City of Kirkland is not responsible for your modifications and disclaims liability for your actions.



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DIY NATIVE LANDSCAPING







ASSESS

DESIGN

INSTALL









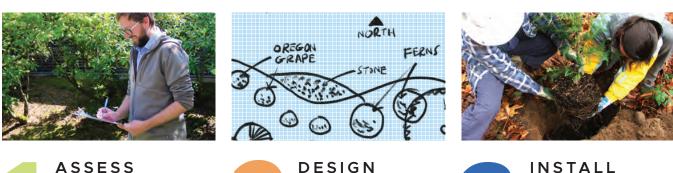


DIY NATIVE LANDSCAPING



Native landscaping is the removal of less permeable surfaces in your yard- such as patios or lawns - and replacing them with native plants and cultivars that have deeper root systems

and amended soils. Native landscaping benefits the environment by improving water quality, preserving native plant species, and providing wildlife and pollinator habitat. Use this guide as a resource to help you plan and install native landscaping for your yard. The process includes 3 steps:





YOUR SITE

CONDITIONS

DESIGN YOUR PROJECT

INSTALL YOUR PROJECT



STEP 1 - ASSESS YOUR SITE CONDITIONS

Before adding native landscaping to your yard, take a closer look and assess the growing conditions so you can choose the right plants for the right places. Use the form at the end of this section to take notes on your site assessment.

□ Think about why you want to use native landscaping. *Is it to:*

- Capture rainwater runoff from your roof?
- Attract wildlife (birds, butterflies, etc.)?
- Block winter winds?
- Create focal points or views that can be enjoyed from your home?
- Shade your home?
- Grow edible plants?

□ Are there any restrictions on where you can place native landscaping?

- Will you have access to water for your plants?
- What other space needs do you have in your yard?
- Are there existing tree roots, buildings, or other structures in your project area?
- Are there critical area restrictions, utility easements, or HOA restrictions in your project area?

Check out your existing vegetation. As you develop your project plan, be sure to note what's already growing in your yard.

- Do you already have trees or plants in your project area that are providing an environmental benefit?
- Note any invasive weeds on your site. You'll be most successful if you identify individual weed types and plan to manage accordingly. (Weed ID and proper management practice information -*Kingcounty.gov/weeds.*)

CALL BEFORE YOU DIG!

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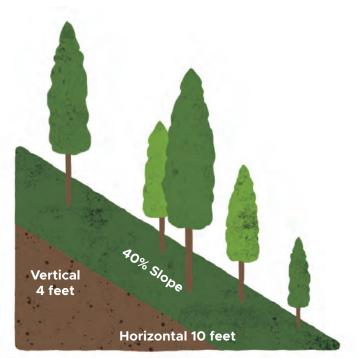
Observe how well water drains in your

proposed project area. This information will help you determine which plants are most likely to thrive in your site's soil moisture conditions.

- Does the soil tend to be wet or dry?
- Does it drain well or is there standing water after heavy rainfall?

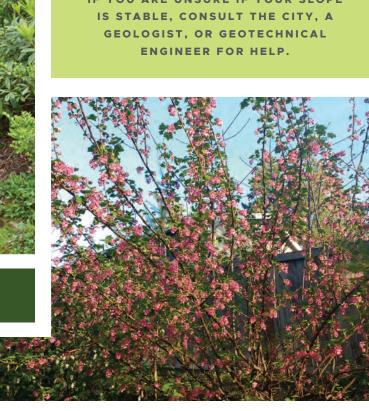
Note the topography of your project area. *Slope* is an important aspect of site planning. Plants can be used to stabilize slopes, or native groundcover can be used as a low-maintenance alterntaive to lawn on a slope. Also, steep slopes can often drain water quickly, need drought tolerant plants, and may require erosion control.

• Is your site relatively flat? Does it have a moderate or steep slope?



STEEP SLOPES ARE DEFINED AS 15 PERCENT OR STEEPER.

IF YOU ARE UNSURE IF YOUR SLOPE IS STABLE, CONSULT THE CITY, A **GEOLOGIST, OR GEOTECHNICAL** ENGINEER FOR HELP.





□ Observe light conditions in your project area. Most plants have specific light requirements – sun dependent, shade dependent, or part sun/part shade.

- Observe your area at different times of day and determine if it is:
 - Full sun direct sunlight most of the day (6 or more hours)
 - Part sun or part shade a half day of sun or shade (4-6 hours)
 - Shady little or no direct sunlight (less than 2 hours)
- Remember that existing trees, your house, and other structures cast shade.



Get to know your soils. Soil conditions can be greatly impacted by past construction activities. Dig small holes about a foot deep at a few different spots in your project area to learn more about your yard's soils.

- Soil texture. Soil texture refers to the proportion of sand, silt and clay particles that make up your soil. You can find out your soil texture by conducting a "ribbon test." Moisten a sample of soil enough to make it into a ball. Form a ribbon by squeezing the soil between your thumb and finger.
 - If the soil forms a ribbon up to 2 inches long, you have clay soil.
 - If the soil falls apart easily and does not make a ribbon, then you have sandy soil.
 - If the soil forms a ribbon about 1 inch long, you have loamy soil, which is considered the ideal soil condition.
- Organic matter. Note the color of your soil. The darker your soil, the richer it is in organic matter and contains more nutrients for plants. Lighter colored soil may need to be amended with compost before planting.
- Soil compaction. How hard is it to dig in your yard? Is the soil soft and fluffy or is it hard and compacted? Compacted soils may need to be tilled and amended with compost before planting.



SOIL TEXTURE RIBBON TEST



SITE ASSESSMENT NOTES

PROJECT GOALS:

SITE RESTRICTIONS:

Check all that apply to your site:

EXISTING	O None (bare soil)	O Weeds	O Lawn		
VEGETATION	O Native plants	O Ornamental plants			
DRAINAGE	O Dry	O Wet	O Moderate		
TOPOGRAPHY	O Flat	O Moderate slope	O Steep slope		
LIGHT	O Sun	O Shade	O Partial sun/shade		
SOIL TYPE	O Clay	$O \operatorname{Loam}$ (mix of sand & clay)	O Sand		
SOIL COLOR	O Light	O Dark			
SOIL COMPACTION	O No compaction	O Moderate compaction	O Highly compacted		

STEP 2 - DESIGN YOUR PROJECT

Once you know more about your site conditions and defined your goals, you can design your project. Use the information you gathered to choose plants that will flourish in your site's conditions.

Define your planting area. Use a garden hose, rope or other flexible material to help you outline/ visualize your planting area. Measure the area that you wish to convert to native landscaping.

□ Choose your plants.

- Choose plants that are appropriate for your site conditions (plant needs match sun and water conditions). Find links to plant lists in the Resources section of this guide.
- Consider budget, ease of care, compatibility with neighboring plants, aesthetics.
- Ensure you have appropriate space for the fullgrown size of the plants.
- Example planting templates appropriate for a variety of site conditions can help you get started. green2.kingcounty.gov/gonative/Plan. aspx

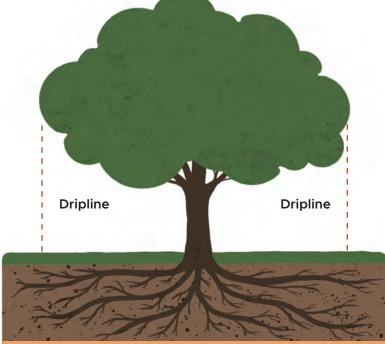






Develop your planting plan.

- Choose a scale. On grid paper, one grid square per one foot in your yard should work for most sites. For larger sites, use one grid square for 2-5 feet, depending on the size of the site. Record the scale that you are using on the grid paper.
- Draw your planting area on the grid paper. Include permanent structures and existing plants that will remain on site. As needed, measure these to the nearest foot and add to your plan.
- Add your plants to your plan.
 - Lay out the trees first. Make sure to give them enough space. Draw tree circles 15 feet in diameter at your plan's scale. Shrubs and groundcovers can be included within and overlap a tree circle but other trees should not.
 - Now lay out the shrubs. Draw shrub circles 6 feet in diameter at your plan's scale. Group them together in clusters according to species. Remember the school photo rule - tall plants in the back, short plants in the front.
 - Now add in the groundcover and perennials. Draw groundcover circles 3 feet in diameter at your plan's scale. Use these to fill in around the trees and shrubs.



AVOID ADDING PLANTS WITHIN THE DRIPLINE OF EXISTING MATURE TREES.

KEEP A FEW THINGS IN MIND AS YOU THINK ABOUT WHERE TO PLACE PLANTS IN YOUR LANDSCAPE:

> Size and spacing.

As you draw your plan, keep in mind that every plant gets larger and changes shape as it gets older. Give each plant enough space to grow without being crowded out by other plants. You may be surprised at how few plants are needed for your project.

- > Guidelines for plant spacing:
 - ✓ Trees 15 to 20 feet on center
 - ✓ Shrubs 6 to 8 feet on center
 - ✓ Groundcover 3 to 4 feet on center

> Plant arrangement.

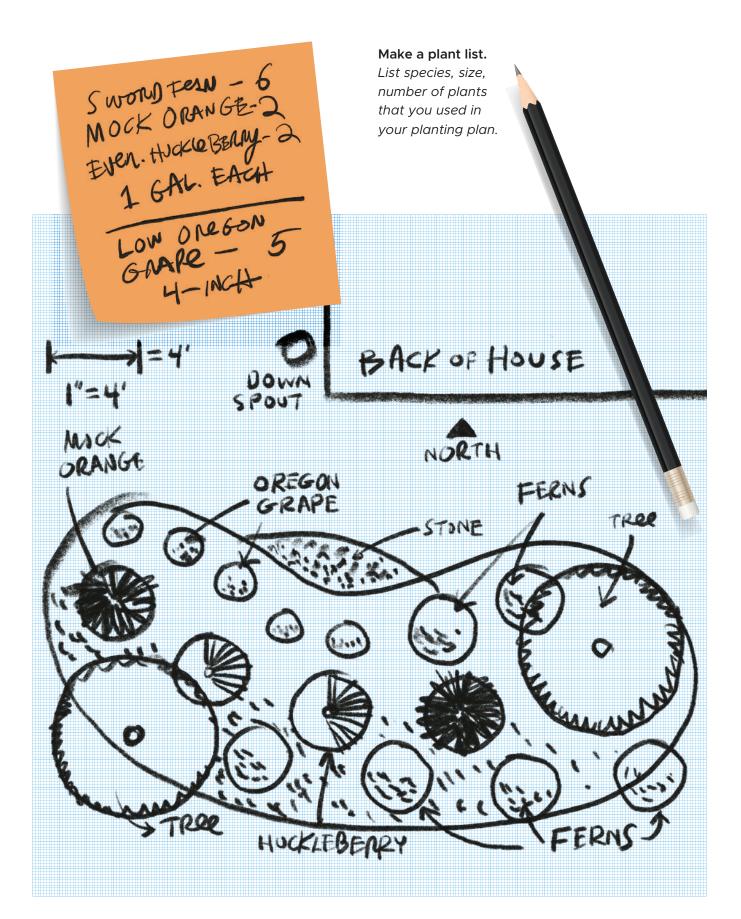
Consider the mature height of plants – keep taller plants in the back, shorter plants in the front of planting bed.

> Consider aesthetics.

Clump same species and same color together in clusters of 3 to 5 plants. This helps create a more natural look for your landscape.

Consider existing structures. Consider the mature width of plants. Do not place too close to walkways, driveways, house or other structures. This will save you the effort of extra pruning in the future.





Plan to improve your soil.

Mulch and compost increase your soil's capacity to hold and filter water while building healthy soil that will help your plants thrive.

- Mulch. Mulch is any material placed around plants to prevent weeds and conserve water. Coarse wood chip mulch is the best. It can usually be purchased from any topsoil and compost supplier or procured for free from arborists. "Beauty bark" or other shredded bark products make a poor mulch substitute. Shredded bark does not retain moisture as well and will NOT prevent weed seeds from germinating around your newly installed plants.
- Compost (if needed). Adding compost will greatly improve your soil in areas that are highly compacted, and where soils are low in organic matter.
 - Do you have compacted or poor soils? Plan to till highly compacted soils prior to planting.
 - Use a shovel or rototiller to loosen soils in your planting area. Rototillers can be rented from home improvement or equipment rental stores.
 - Dig or till in 2- 3 inches of compost into the loosened soil.



HOW MUCH MULCH DO I NEED?

> Plan to lay a 3-inch or thicker layer of mulch in your planting area.

> Mulch is measured by the cubic yard. To figure out how many cubic yards you need, follow the formula below:

Project area (sq ft) X Planned mulch depth (inches) ÷ 324 = # of cubic yards of mulch





HOW MUCH COMPOST DO I NEED?

Compost is sold by the cubic yard. To figure out how many cubic yards you need, follow the formula below:

Project area (sq ft) X Planned compost depth (inches) ÷ 324 = # of cubic yards of compost

FREE SOURCES OF MULCH:

-LEAVES AND BRANCHES FROM YOUR YARD -WOOD CHIPS FROM LOCAL TREE SERVICES. CONTACT LOCAL ARBORISTS OR VISIT HTTPS://GETCHIPDROP.COM/



Plan to install your native landscaping project between late fall and early spring. Trees and woody shrubs are ideally planted in the fall to support root establishment before the growing season. Avoid planting in the summer or when the ground is frozen.

\square Site preparation

Clear planting area

- Turf removal
 - Use a shovel to dig out grass. Make sure you remove the roots of the existing grass and weeds so they do not grow back.
 - Use a sod cutter (manual or powered) to slice off thin horizontal layers of sod. Sod cutters can be rented from equipment rental companies or home improvement stores.
 - Turf can also be removed through sheet mulching - see next page for details.



- Weed removal
 - Use weeding tools to remove plants by hand dig out plants and roots entirely (including seeds, fruits and leaves).
 - The best time to remove weeds is prior to flowering. If removal occurs after flowering, cut off and dispose of flowers before digging out roots. Dugout materials should be disposed of in yard waste and, in the case of some noxious weeds, the trash. Do not use weed materials for mulch.
 - If the soil is dry, water well to moisten soil and make digging easier.
- Sheet mulching This is an easier but slower way to prepare an area for planting. You are not removing grass or weeds with this method. You pile layers of cardboard with mulch to kill the plants beneath. It is appropriate for flat areas without much foot traffic. You can sheet mulch at any time, but the best time to sheet-mulch is the spring – the weeds and grass should be dead by fall and ready for planting.



SHEET MULCHING STEPS

) Gather your materials.

At a minimum, you'll need enough cardboard (tape and staples removed) to cover your project area with room to overlap pieces and enough woody mulch to cover the cardboard in at least a 2-inch deep layer. You can also add a layer of compost on top of the cardboard and then cover the compost with mulch.

> Prepare your site.

Mow grass or other vegetation to the lowest level possible. Knock down or remove weeds. Flag any sprinkler heads. Soak the area to jumpstart the decomposition process.

) Lay down your cardboard.

Lay cardboard over project area from one end of the space to the other. Be sure to overlap cardboard pieces by at least 6 inches. Once the cardboard is in place, wet it down until it becomes heavy and limp so it takes the shape of the ground below and doesn't shift around. Work around existing plants by ripping and folding the cardboard – much easier to do when it's wet.

> Add organic materials.

Just adding mulch? Spread a layer at least 2 inches thick on top of cardboard. If you're also using compost, spread it in a 2-inch layer and then cover the compost with your mulch.

> Wait before planting.

Wait 3 months or longer before planting. For each planting hole, pull aside the woodchips before digging each plant in. Then, rake wood chips back around each plant.

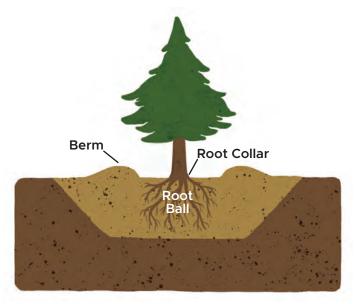
De-compact and amend soils

- Use a shovel or rototiller to break up compacted soils.
- While breaking up soils, be sure to avoid damaging the roots of existing native plants. Most plant roots are in the top 12" of the soil, so it's best to work around them. Stay out of the dripline of trees and shrubs as much as possible.
- Compost can be worked into the topsoil by hand or rototiller.

Installing plants

- Lay out plants or use flags to mark the location of each plant.
- Dig a hole for each plant twice the width and as deep as the container soil, but not any deeper than the root ball or plant container height.
- Remove plant from container and massage the root ball to spread roots loosely. Prune or straighten circling roots - roots that circle the bottom and sides of the root ball can later girdle the tree as the trunk attempts to grow outward.
- Place the plant in the hole and ensure that the root collar (widened base of stem just above where roots start) is level with the ground.
- Backfill around the root ball with original soil, breaking up any large chunks and gently pushing down soil as you go, to prevent air pockets.
- Use remaining soil to form a berm (a low ring of dirt) outside the root ball perimeter to hold water around the plant.
- Water immediately to settle soil.
- Once everything is planted, add mulch to your planting area. Avoid placing mulch directly onto plant stems pull mulch away from the stems to create a ring around the base of plants.











SOILS

Growing Healthy Soil https://snohomishcountywa.gov/DocumentCenter/View/7257/ Growing-Healthy-Soil?bidId=. A guide for getting to know your soil and how to improve its health.

SHEET MULCHING

How to Sheet Mulch *http://lawntogarden.org/how-to-sheet-mulch.* Collection of resources for sheet mulching, including a step-by-step guide.

Sheet Mulching: How to Smother Weeds, Build Soil & Conserve Water the Easy Way *https://modernfarmer.com/2016/05/sheet-mulching/*. Article on the basic steps of sheet mulching.

PLANT GUIDES

Great Plant Picks *www.greatplantpicks.org.* Plant lists for a variety of site conditions. Includes list of recommended Northwest native plants.

Native Plant Guide (King County) *www.kingcounty.gov/gonative.* Browse or search a database of native plants, find native plants appropriate for your site conditions, check out example native landscaping plans for various site conditions.

Rain Garden Handbook for Western Washington. *Appendix A - Selected Plants for Rain Gardens in Western Washington. https://fortress.wa.gov/ecy/publications/ documents/1310027.pdf#page=70.* List of native and non-native plants appropriate for rain gardens – also appropriate for native landscaping in a variety of growing conditions.

Plant Lists by Habitat (WNPS) *https://wnps.org/native-gardening/resources#habitat.* Lists of native plants appropriate for a variety of habitat conditions.

King County Noxious Weeds *www.kingcounty.gov/weeds.* Weed identification photo index, information on weeds and weed management, and educational opportunities.

NATIVE PLANT NURSERY LISTS

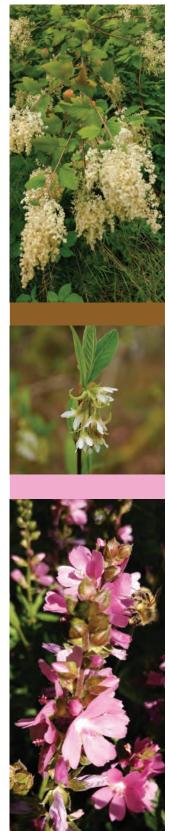
Native Plant and Seed Source List (Washington Native Plant Society) https://www.wnps.org/content/documents/plants/gardening/native-plant-seedsources_5-14-2019.pdf

Native Plant Nursery List (King Conservation District) http://kingcd.org/wp-content/ uploads/2018/05/Native_Plant_Nurseries_Sheet_2018.pdf

PROJECT PLANNING & INSTALLATION

City of Bellevue Critical Areas Handbook – Restoring, Enhancing, and Preserving https://development.bellevuewa.gov/UserFiles/Servers/Server_4779004/File/pdf/ Development%20Services/ca_handbook.pdf.

Step-by-step guide to aid in development, installation, monitoring and maintenance of small-scale environmental enhancement and restoration projects.





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Kirkland Public Works - Surface Water Division www.kirklandwa.gov/stormwater

CARING FOR YOUR YOUNG TREE

The first 3 years are critical for the establishment of your tree. Proper watering, mulching, and other tree care will help ensure a healthy mature tree and reduce future maintenance costs.





WATER YOUR TREE FOR AT LEAST 2 YEARS.

Young trees require regular watering for good health and disease prevention. Deep watering will encourage your tree to grow a robust root system.

- Give your tree 15 gallons (slowly), once or twice a week throughout the summer.
 - Water should always be applied slowly. Use a 5-gallon bucket with holes drilled in the bottom, a garden hose set on low for 30 minutes, or a tree water bag.
- Check soil for proper watering 4 to 6 inches below the surface. Soil should feel damp, not dry or saturated.

REMOVE ANY STAKES OR SUPPORTS

installed with your tree within one year of planting. Test if stakes are ready to be removed by grasping the base of the tree trunk and gently shaking it. If the soil around the tree does not move, the roots have stabilized the tree. The stakes can then be removed. **DO NOT leave stakes on longer than necessary** – if the trunk is larger than the stakes, the stakes should be removed.





MAINTAIN A MULCH RING.

Mulch keeps soil moist, limits weed growth, and protects tree trunks from lawnmower and weed-eater injuries.

- Use organic matter such as wood chips or fallen leaves.
- Maintain a 3 to 6-inch thick mulch layer, extending at least as far as the drip line. As the tree continues to grow larger throughout its life, its dripline will move further out, requiring a larger circle of mulch.
- Keep mulch a hands-width away from tree trunk.

WEED AROUND YOUR TREE.

Grass and weeds compete with the tree for water and nutrients.

• Remove any competing plants, such as grass and weeds, within at least 2 feet of the tree's trunk.

PRUNE.

Pruning of newly planted trees should be limited to the removal of dead or broken branches. All other pruning should not occur until the second or third year, when a tree has recovered from the stress of transplanting. For information about proper pruning, please contact the Garden Hotline at 206-633-0224 or visit **www.gardenhotline.org.**







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Maintenance Guides

CARING FOR YOUR NATIVE LANDSCAPE





WEED

Weeds can outcompete your young plants and spread quickly.

- Monitor your garden regularly for weeds. It's easier to pull young weeds before they go to seed or start spreading.
- Pull weeds by hand or with your favorite weeding tool. Remove entire weed, including roots.
- Weeds should be disposed of in yard waste and, in the case of some noxious weeds, the trash. Do not use for mulch or in backyard compost bin. Visit www.kingcounty.gov/weeds for noxious weeds disposal information.
- Avoid the use of herbicides in your landscaping.
- When?
 - > Weed as necessary, especially when the soil is moist, to make digging easier.
 - > The best time to remove weeds is prior to them flowering and going to seed. If removal occurs after flowering, cut off and dispose of flowers before digging out roots.

MULCH

Mulch keeps soil moist, limits weed growth, and keeps soil temperature warmer in winter and cooler in summer.

- Add mulch, as needed, to maintain at least a 3-inch deep layer. Be sure to keep mulch pulled away from the stems of your plants to prevent rot.
- Wood chips and leaves are great mulch materials. Woodchips can be purchased from any topsoil supplier and are often available for free from arborists.
- When?
 - > Annually, early spring or fall







WATER

Young plants need water to grow strong roots. Deeper, infrequent watering will help your plants to establish deeper, healthier roots.

- Water deeply enough to moisten your plants' whole root zone (top 6-12 inches of soil). To check, dig in with a trowel an hour after watering to check the depth of moisture.
- Apply water slowly enough so soil can absorb it without running off.
- Consider using soaker hoses or drip irrigation on garden beds.
- Use a timer to water just the right amount.
- When?
 - > Water when the weather is dry and warm, during the first few growing seasons.
 - > Water in the early morning or evening to reduce evaporation.
 - > Let the top few inches of soil dry between soakings.



YEAR 1	Water every 3-4 days.	
YEARS 2 & 3	Water once or twice per week. The frequency and length of watering depends on soil conditions.	
AFTER YEAR 3	Plants should be established and may need watering once or twice per month, more often if they show signs of stress.	

PRUNE

Pruning of newly planted plants should be limited to the removal of dead or broken branches. All other pruning should not occur until the second or third year, when plants have recovered from the stress of transplanting. For information about proper pruning, please contact the Garden Hotline at 206-633-0224 or visit **www.gardenhotline.org**.



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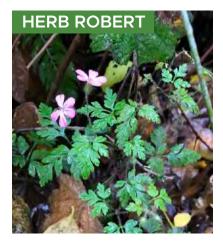
COMMON GARDEN WEEDS













• King County Noxious Weeds – www.kingcounty.gov/weeds

DANDELION

• Garden Hotline – www.gardenhotline.org

HEDGE BINDWEED MORNING GLORY

CARING FOR YOUR CISTERN

Cisterns need seasonal maintenance to ensure that they continue to function

properly.





AUGUST/SEPTEMBER

- Inspect your entire cistern system (cistern, gutters, pipes, fittings, etc.) to ensure it is functioning properly.
- Clean your cistern
 - > Drain all water and sediment from your cistern.
 - > Spray water down inside of cistern to remove built-up algae and sediment.
- Clear any blockages in your valve system and replace parts as needed.

SEPTEMBER

- Open the low-flow valve
 - Open the valve to allow cistern to slowly drain to your landscape or downspout.
 - > Leave the valve open through the winter.





SEPTEMBER-MAY

- Check screen, spigot and valves weekly.
- Remove leaves and other debris from the screen at the top of the cistern and the overflow pipe to allow water to flow freely.
- Be sure to inspect and clean roof gutters.



MAY

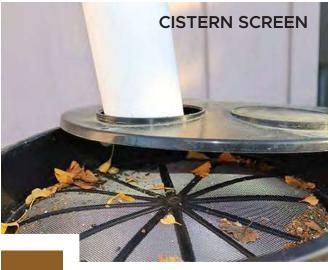
- □ Close the low-flow valve
 - Close the valve to save water for your yard.
 - > Use the water you have collected in your cistern to irrigate your landscaping.

Photo credits: Rain Dog Designs/David Hymel (p. 1, 2)



Kirkland Public Works -Surface Water Division

www.kirklandwa.gov/stormwater









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TREE LIST City of Kirkland Staff Recommendations



This list of tree recommendations is intended as a starting point to help guide you on your search for a tree for your landscape. The more information you have about your landscape's conditions and a tree's specific needs before you purchase a tree, the better. By creating a plan and selecting trees wisely, you'll avoid costly errors, reduce maintenance, and enjoy a beautiful, healthy yard.







Please note that all trees might not be readily available. If you cannot find a specific tree from this list, consult the staff at your local tree nursery. They might be able to offer advice on alternatives that would work well in your yard's growing conditions.



SHORT TRE Less than 30		es 20'- 30)' spac	ing)									Japanese Stewartia
Common name	Botanical name	Deciduous/ Evergreen	Native?	Mature Height (ft)	Mature Width (ft)	Growth rate	Exposure - Sun/part/ shade	Drought Tolerant?	Shape	Flowers?	Fall color?	Notes	
Dogwood	Cornus spp	varies		varies	varies	varies	Ô		varies	<u>(3)</u>		Many species and varieties	
Japanese Maple	Acer palmatum	q		25	25	slow	Â					Attractive foliage	
Japanese Snowbell	Styrax japonicus	q		25	25	slow	Â	Yes	•	6		Fragrant, showy flowers	
Japanese Stewartia	Stewartia pseudocamellia	q		25	12	slow	Â	Yes	4	£		Attractive peeling bark	
Vine Maple	Acer circinatum	q	Yes	20	20	moderate	Ô	Yes	multi- stem		\$		

MEDIUM TREES

30' to 50' tal	i (requires 3	0'- 40' sp	acing)										
Common name	Botanical name	Deciduous/ Evergreen	Native?	Mature Height (ft)	Mature Width (ft)	Growth rate	Exposure - Sun/part/ shade	Drought Tolerant?	Shape	Flowers?	Fall color?	Notes	MARO.
Eastern Redbud	Cercis canadensis	q		35	25	moderate	Â	Yes	•	6		Showy flowers	
Katsura Tree	Cercidiphyllum japonicum	q		40	40	slow	Â		•			Heart-shaped leaves	P (27)
Little-Leaf Linden	Tilia cordata	q		30	20	moderate	态		•	(Fragrant, showy flowers	
Pacific Dogwood	Cornus nuttallii	q	Yes	35	20	moderate		Yes	•	63		Fragrant, showy flowers	
Paperbark Maple	Acer griseum	q		30	25	slow	<u>ر</u>		•			Attractive peeling, reddish bark	

TALL TREES Over 50' tall (requires 40'-50' spacing)

	(iequies +c	<u> </u>											1
Common name	Botanical name	Deciduous/ Evergreen	Native?	Mature Height (ft)	Mature Width (ft)	Growth rate	Exposure - Sun/part/ shade	Drought Tolerant?	Shape	Flowers?	Fall color?	Notes	(month)
Dawn Redwood	Metasequoia glyptostro- boides	q		70	25	fast	$\langle \hat{O} \rangle$		4		*	Fine, feathery leaves	
Garry Oak	Quercus garryana	q	Yes	50	40	slow	$\langle \hat{Q} \rangle$	Yes	•			Reddish-brown acorns, attractive gray bark	
Grand Fir	Abies grandis	₩	Yes	100	30	moderate	Ô		4			Glossy, dark green needles	
Red Oak	Quercus rubra	q		60	45	fast	$\langle \hat{O} \rangle$	Yes	•			Brown acorns, excellent fall foliage	
Tulip Tree	Liriodendron tulipifera	q		60	30	fast	$\langle \hat{O} \rangle$	Yes	4	63		Tulip-shaped flowers	- A
Western Red Cedar	Thuja plicata	≹	Yes	50	25	moderate	Ĉ	Yes	4			Graceful, spreading branches	

	NARROW TREES 10' to 20' wide (requires 20'-30' spacing)											Eastern Red Cedar	
Common name	Botanical name	Deciduous/ Evergreen	Native?	Mature Height (ft)	Mature Width (ft)	Growth rate	Exposure - Sun/part/ shade	Drought Tolerant?	Shape	Flowers?	Fall color?	Notes	
Eastern Red Cedar	Juniperus virginiana	₩		40	20	moderate	Ô	Yes	4			Gray to reddish-brown peeling bark	
Hinoki Cypress	Chamaecyparis obtusa	≹		25	15	moderate	窳		4			Attractive red peeling bark	EV
Incense Cedar	Calocedrus decurrens	≹		40	15	moderate	窳	Yes	4			Dark green, fragrant leaves	
Mountain Hemlock	Tsuga mertensiana	≹	Yes	30	18	slow	¢	Yes	4			Narrow, asymmetrical shape	
Serbian Spruce	Picea omorika	≹		60	20	moderate			4			Thin arching branches, slender trunk	





RESOURCES

City of Kirkland Trees and Landscaping Page

https://www.kirklandwa.gov/depart/planning/Topics/Trees_and_Landscaping.htm Tree and landscaping resources for Kirkland, including recommended tree and plant lists.

Great Plant Picks

https://www.greatplantpicks.org/

Lists of trees and other landscape plants for a variety of site conditions. Includes list of recommended Northwest native plants.

King County Native Plant Guide

https://green2.kingcounty.gov/gonative Browse or search a database of native plants, find native plants appropriate for your site conditions, check out example native landscaping plans for various site conditions.

Arbor Day Foundation

https://www.arborday.org/trees A variety of tree-related resources including tree identification and tree selection guidance.



Kirkland Public Works -Surface Water Division www.kirklandwa.gov/stormwater



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Department of Ecology Tree List

Table V-11.3: Recommended Newly Planted Tree Species for Flow Control Credit

Botanical Name	Common Name	Height	Spread	Comments	Native Tree (Y/N)
		Large Gro	oup		
Abies grandis	Grand Fir	100	35	Grows at 0-1500 m in moist conifer forests.	Y
Abies procera	Noble Fir	90	30		N
Acer freemanii 'Autumn Blaze'	Autumn Blaze Maple	50	40		N
Acer macrophyllum	Big Leaf Maple	100	80	Very large native.	Y
Acer platanoides 'Emerald Queen'	Emerald Queen Norway Maple	50	40		N
Acer saccharum 'Bonfire'	Bonfire Sugar Maple	50	40	Fastest growing sugar maple.	N
Acer saccharum 'Commemoration'	Commemoration Sugar Maple	50	35	Resistant to leaf tatter.	N

Botanical Name	Common Name	Height	Spread	Comments	Native Tree (Y/N)
Acer saccharum 'Legacy'	Legacy Sugar Maple	50	35	Limited use - where sugar maple is desired in standard planting strips	N
Aesculus flava	Yellow Buckeye	70	40	Yellow flowers - least susceptible to leaf blotch - large fruit	N
Alnus rubra	Red Alder	70	35	Nitrogen fixing.	Y
Cercidiphyllum japonicum	Katsura Tree	40	40	Needs lots of water when young	N
Fagus sylvatica	Green Beech	50	40	Silvery-grey bark.	N
Fagus sylvatica 'Asplenifolia'	Fernleaf Beech	60	60	Beautiful cut leaf	N
Fraxinus latifolia	Oregon Ash	60	35	Only native ash in PNW.	Y
Fraxinus pennsylvanica 'Urbanite'	Urbanite Ash	50	40	Tolerant of city conditions.	N
Gymnocladus dioicus 'Espresso'	Espresso Kentucky Coffeetree	50	35	Very coarse branches - extremely large bi-pinnately compound leaf.	N
Liriodendron tulipifera	Tulip Tree	60	30	Fast-growing tree.	N
Nothofagus antarctica	Antarctic Beech	50	35	Rugged twisted branching and petite foliage.	N
Picea sitchensis	Sitka Spruce	100	30	Native environment is characterized by cool, moist maritime climate.	Y
Pinus monticola	Western White Pine	100	35	Occurs in lowland fog forests or on moist mountain soils - primary host.	Y
Platanus x acerifolia 'Bloodgood'	Bloodgood London Planetre	50	40	More anthracnose resistant - needs space.	N
Platanus x acerifolia 'Yarwood'	Yarwood London Planetree	50	40	High resistance to powdery mildew.	N
Psuedotsuga menziesii	Douglas Fir	150	35		Y
Quercus bicolor	Swamp White Oak	45	45	Shaggy peeling bark.	N
Quercus coccinea	Scarlet Oak	50	40	Best oak for fall color.	N

Botanical Name	Common Name	Height	Spread	Comments	Native Tree (Y/N)
Quercus garryana	Oregon Oak	45	40	Native to Pacific Northwest.	Y
Quercus imbricaria	Shingle Oak	60	50	Nice summer foliage - leaves can persist throughout the winter.	N
Quercus muhlenbergii	Chestnut Oak	60	50	Coarsely toothed leaf.	N
Quercus robur	English Oak	50	40	Large, sturdy tree.	N
Quercus rubra	Red Oak	50	45	Fast growing oak - needs space.	N
Quercus velutina	Black Oak	60	50		N
Thuja plicata	Western Red Cedar	125	40	Growth is stunted on dry soils.	Y
Tsuga heterophylla	Western Hemlock	130	30		Y
Ulmus 'Homestead'	Homestead Elm	60	35		N
Ulmus 'Pioneer'	Pioneer Elm	60	50	Resistant to Dutch elm disease.	N
Ulmus parvifolia 'Emer II'	Allee Elm	50	35	Exfoliating bark and nice fall color.	N
Zelkova serrata 'Greenvase'	Green Vase Zelkova	50	40	Vigorous.	N
	Med	lium/Largo	e Group		
Acer campestre	Hedge Maple	30	30		N
Acer campestre 'Evelyn'	Queen Elizabeth Hedge Maple	35	30	More upright branching than the species.	N
Acer miyabei 'Morton'	State Street Maple	45	30		N
Acer platanoides 'Parkway'	Parkway Norway Maple	40	25	Tolerant of verticillium wilt.	N
Acer pseudoplatanus 'Atropurpureum'	Spaethii Maple	40	30	Leaves green on top purple underneath.	N
Acer saccharum 'Green Mountain'	Green Mountain Sugar Maple	45	35	Reliable fall color.	N
Aesculus x carnea	Briottii' Red Horse- chestnut	30	35	Resists heat and drought better than other horsechestnuts	N
Betula albosinensis var septentrionalis	Chinese Red Birch	45	35	White/pink peeling bark.	N

Botanical Name	Common Name	Height	Spread	Comments	Native Tree (Y/N)
Betula jacquemontii	Jacquemontii Birch	40	30	White bark makes for good winter interest - best for aphid resistance.	N
Betula papyrifera	Paper Birch	60	35	High susceptibility to aphid infestation.	Y
Chamaecyparis pisifera	Sawara Cypress	45	25	Special site approval needed- many cultivars available.	N
Corylus colurna	Turkish Filbert	40	25	Tight, formal, dense crown - not for high pedestrian areas.	N
Eucommia ulmoides	Hardy Rubber Tree	50	40	Dark green shiny leaves.	N
Fagus sylvatica 'Rohanii'	Purple Oak Leaf Beech	50	30	Attractive purple leaves with wavy margins.	N
Fraxinus americana 'Autumn Applause'	Autumn Applause Ash	40	25	Compact tree - reportedly seedless.	N
Fraxinus americana 'Empire'	Empire Ash	50	25	Use for areas adjacent to taller buildings when ash is desired.	N
Fraxinus pennsylvanica 'Patmore'	Patmore Ash	45	35	Extremely hardy, may be seedless.	N
Ginko biloba 'Autumn Gold'	Autumn Gold Ginkgo	45	35	Narrow when young.	N
Halesia monticola	Mountain Silverbell	45	25	Attractive small white flower.	N
Koelreuteria paniculata	Goldenrain Tree	30	30	Midsummer blooming.	N
Liquidambar styraciflua 'Rotundiloba'	Rotundiloba Sweetgum	45	25	Only sweetgum that is entirely fruitless. Smooth rounded leaf lobes.	N
Magnolia denudata	Yulan Magnolia	40	40	6" fragrant white blossoms in spring.	N
Metasequoia glyptostroboides	Dawn Redwood	50	25	Fast growing deciduous conifer.	N
Nyssa sylvatica	Tupelo	60	20	Handsomely chunky bark.	N
Phellodendron amurense 'Macho'	Macho Cork Tree	40	40	Male selection - fruitless - another good variety is 'His Majesty'.	N

Botanical Name	Common Name	Height	Spread	Comments	Native Tree (Y/N)
Pinus nigra	Austrian Pine	45	25	Special site approval needed - fairly tolerant of heat, pollution, urban	N
Pinus pinea	Italian Stone Pine	40	30	Special site approval needed.	Ν
Populus tremuloides	Quaking Aspen	50	30		Y
Pyrus calleryana 'Aristocrat'	Aristocrat Pear	40	30	Good branch angles - one of the tallest pears.	N
Quercus frainetto	Italian Oak	50	30	Drought reistant.	Ν
Quercus robur 'fastigiata'	Skyrocket Oak	40	15	Columnar variety of oak.	N
Salix lasiandra	Pacific Willow	40	30		Y
Sophora japonica 'Regent'	Japanese Pagodatree	50	40	Can have trunk canker or twig blight.	N
Taxodium distichum	Bald Cypress	5	30	A deciduous conifer.	N
Taxodium distichum 'Mickelson'	Shawnee Brave Bald Cypress	55	20	Deciduous conifer - tolerates city conditions.	N
Tilia americana 'Redmond'	Redmond Linden	45	30	Pyramidal, needs water.	N
Tilia cordata 'Greenspire'	Greenspire Linden	40	30	Symmetrical, pyramidal form.	Ν
Zelkova serrata 'Village Green'	Village Green Zelkova	40	38		N
	Ме	dium/Smal	ll Group		·
Acer nigrum 'Green Column'	Green Column Black Maple	50	10	Good close to buildings.	N
Acer platanoides 'Columnar'	Columnar Norway Maple	40	15	Good close to buildings.	N
Acer rubrum 'Bowhall'	Bowhall Maple	40	15		Ν
Acer rubrum 'Karpick'	Karpick Maple	35-40	20	May work under very high power lines with arborist's approval.	N
Acer rubrum 'Scarsen'	Scarlet Sentinel Maple	40	20		N

Botanical Name	Common Name	Height	Spread	Comments	Native Tree (Y/N)
Acer truncatum x A. platanoides 'Keithsform'	Norwegian Sunset Maple	35	25	Limited use under wires.	N
Acer truncatum x A. platanoides 'Warrenred'	Pacific Sunset Maple	30	25	Limited use under wires.	N
Alnus sinuata	Sitka Alder	40	25	Prefers a heavy moist soil - usually found above 3000'.	Y
Carpinus betulus	'Fastigiata' Pyramidal European Hornbeam	35	15	Broadens when older.	N
Cladrastis kentukea	Yellowwood	40	40	White flowers in spring, resembling wisteria flower.	N
Cornus controversa 'June Snow'	Giant Dogwood	40	30	Large white flower clusters that appear in June.	N
Crataegus crus-galli 'Inermis'	Thornless Cockspur Hawthorne	25	30	Red persistent fruit.	N
Crataegus phaenopyrum	Washington Hawthorne	25	20	Thorny.	N
Crataegus suksdorfii	Suksdorf's Hawthorne	30	25	Shorter spines than C. Douglasii.	Y
Crataegus x lavalii	Lavalle Hawthorne	28	20	Thorns on younger trees.	N
Davidia involucrata	Dove Tree	40	30	Large, unique white flowers in May.	N
Ginko biloba 'Princeton Sentry'	Princeton Sentry Ginkgo	40	15	Very narrow growth.	N
Halesia tetraptera	Carolina Silverbell	35	30	Attractive bark for seasonal interest.	N
Libocedrus decurrens	Incense Cedar	35	20	Special site approval needed.	N
Liquidambar styraciflua	Moraine Sweetgum	40	20	Light green foliage. More compact than other varieties.	N
Maackia amurensis	Amur Maackia	30	20	Attractive bark and summer flowers - grows in tough conditions.	N
Magnolia 'Elizabeth'	Elizabeth Magnolia	30	20	Yellow Flowers.	N
Magnolia 'Galaxy'	Galaxy Magnolia	35	25	Reddish-purple flowers in spring.	N

Botanical Name	Common Name	Height	Spread	Comments	Native Tree (Y/N)
Magnolia grandiflora 'Victoria'	Victoria Evergreen Magnolia	25	20		N
Magnolia Kobus	Wada's Memory Magnolia	35	20	Does not flower well when young.	N
Ostrya virginiana	Ironwood	40	25	Hop like fruit.	Ν
Parrotia persica	Persian Parrotia	30	20	Select or prune for single stem; can be multi-trunked.	N
Pinus densiflora 'Umbraculifera'	Umbrella Pine	25	20	Special site approval needed.	N
Prunus x yedoensis 'Akebono'	Akebono Flowering Cherry	25	25		N
Pterostyrax hispida	Fragrant Epaulette Tree	40	35	Pendulous creamy white flowers - fragrant.	N
Pyrus calleryana 'Cambridge'	Cambridge Pear	40	15	Narrow tree with good branch angles and form.	N
Pyrus calleryana 'Glen's Form'	Chanticleer or Cleveland Select Pear	40	15	Vigorous.	N
Pyrus calleryana 'Redspire'	Redspire Pear	35	25	Pyramidal.	N
Quercus 'Crimschmidt'	Crimson Spire Oak	45	15	Hard to find.	Ν
Robinia x ambigua	Pink Idaho Locust	35	25	Fragrant flowers.	Ν
Sciadopitys verticillata	Japanese Umbrella Pine	30	20	Grows slowly - pristine evergreen foliage - special site approval.	N
Sorbus alnifolia	Korean Mountain Ash	40	30	Simple leaves. Beautiful pink-red fruit - may be short lived.	N
Sorbus aucuparia 'Mitchred'	Cardinal Royal Mt. Ash	35	20	Bright red berries.	N
Sorbus x hybridia	Oakleaf Royal Mt. Ash	30	20		Ν
Stewartia monodelpha	Orange Bak Stewartia	30	20	Orange peeling bark - white flowers in spring.	N
Taxus brevifolia	Pacific Yew	40	25	Typically occurs as an understory tree 3-5 m tall west of the Cascades.	Y

Botanical Name	Common Name	Height	Spread	Comments	Native Tree (Y/N)
Tilia cordata 'De Groot'	De Groot Littleleaf Linden	30	20	Compct, suckers less than other Lindens.	N
Tilia cordata 'Chancole'	Chancelor Linden	35	20	Pyramidal.	Ν

Washington State Department of Ecology

2019 Stormwater Management Manual for Western Washington (2019 SWMMWW) Publication No.19-10-021

City of Kirkland Online Tree Planting Class I. Overview

Planting trees creates a canopy, or "umbrella", of leaves that helps provide shade and reduces the intensity of rainfall before it hits the ground. Tree planting is an easy, affordable way to help the environment.

As trees grow and mature, their environmental benefits increase. The larger canopies and root systems of mature trees can soak up rainwater runoff now, while planting new trees can help us in the long-term. This is why it is so important **retain existing trees** in addition to **planting new trees**.



This short, online tree planting course will help you choose your the right tree to plant and choose the right place to plant it. You'll also learn how to plant your tree to ensure its survival for years to come.

City of Kirkland Online Tree Planting Class

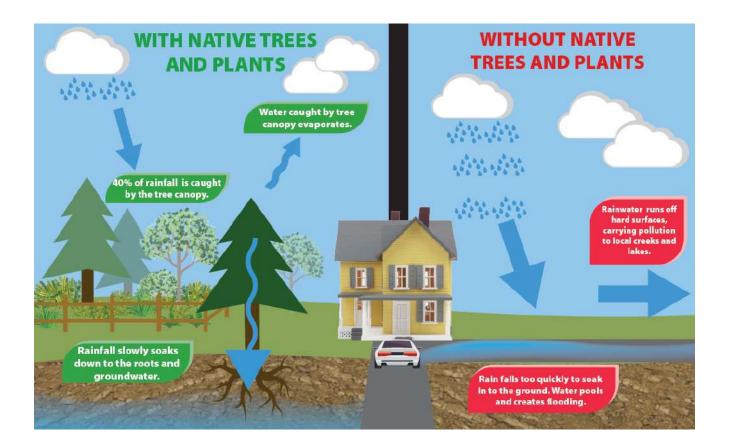
II. Benefits of Trees

Trees bring beauty and many other benefits to our landscapes and neighborhoods.

In Kirkland, trees are an important and effective way to manage and slow down rainwater runoff.

Tree canopies help reduce erosion caused by falling rain. They also provide surface area where rain water lands and evaporates.

Roots absorb water and help create conditions in the soil that better allows water to soak into the ground, rather than pool and flood.



City of Kirkland Online Tree Planting Class

III. Choose the Right Tree

Consider the reason you're planting a tree, the shape and size of the tree, and your property's soil and sun conditions before planting.



Tree Function - Why are you planting the tree? What functions will it serve?

- **Evergreen trees** keep their leaves all year and are good for privacy, wind breaks, and shading hot areas.

-Deciduous trees lose their leaves every year and provide shade in the summer while allowing in winter sun.

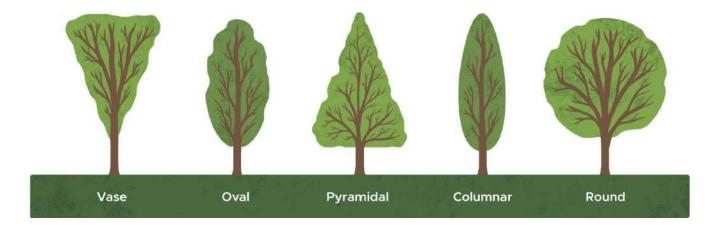
Form and Size - Selecting the right shape and size of a tree reduces maintenance and increases your tree's value for the landscape.

- **Height:** Consider how tall the tree will be at maturity. Are there powerlines or other hazards above to avoid?

- **Canopy spread:** Consider how wide the tree will grow at maturity and avoid planting too close to buildings.

- **Tree shape:** A columnar-shaped tree will grow tall and narrow, while round and v-shaped trees provide the most shade. Select a tree shape that helps you achieve your landscaping goals.

- Root space: You can expect that roots will grow at least as wide as the canopy of the tree and generally stay near the surface of the soil. Avoid planting too close to buildings, driveways, and sidewalks.



Soil, sun, and moisture conditions - Select a tree that will thrive in your site's conditions.

City of Kirkland Online Tree Planting Class

Right Tree Quiz!

Complete the following quiz before moving on.

* 1. An evergreen tree:

* 2. An deciduous tree:

- 🜩

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* 3. In general, how wide can you expect a tree's roots to grow?

O Roots grow straight down, so it's not a problem.

- \bigcirc One to two feet wide at most.
- At least as wide as the tree canopy.
- \bigcirc None of the above

City of Kirkland Online Tree Planting Class

IV. Choose the Right Place to Plant

Carefully selecting a location for your new tree helps ensure that it will be healthy and survive for years to come without excessive maintenance or without causing trouble to your property's infrastructure.

Always call 811 before you dig. Call 811 or visit <u>callbeforeyourdig.org</u> to request a free utility locate. This will locate your gas, cable, and electric lines. 811 **will not** locate your sewer or water lines. The City of Kirkland or Northshore Utility District may have the records of sewer/water lines. Contact your sewer/water provider for more information.

Make sure you have enough room for the tree to grow.

Select a location that has enough room for the branches above ground as well as the roots below ground. Consider the mature height, mature canopy width, and root spread when selecting a location.

- All trees must be planted on your private property, not in the right of way.

- Avoid utilities. Locate trees at least 10 feet from underground utilities and plant smaller trees (less than 25 feet tall at maturity) under power lines.



City of Kirkland Online Tree Planting Class Plant in the Right Place Quiz

Answer the following quiz questions about the right planting location before moving on.

* 4. What number should you call for a free utility locate before any digging?

0 411

0 811

0 911

* 5. How far should trees be planted from underground utilities and buildings?

\$

* 6. Check all of the correct tree planting spacing guidelines out of the list below. Hint: there are four correct out of six choices. **Check all that are correct.**

5 feet from property lines

200 feet from stoplights

☐ 5 feet from pavement edges

Less than 25 feet tall at maturity under power lines

15-20 feet from other trees

As close to a window as possible

City of Kirkland Online Tree Planting Class V. Plant Your Tree!

Trees and woody shrubs are ideally planted in the fall to support root establishment before the spring growing season. Avoid planting in the summer or when the ground is frozen.

Steps to Tree Planting

1. Clear the area. Remove material (sod, weed, mulch) from planting area to expose soil.

2. Dig a shallow, wide planting hole. Measure the height of the root ball. Dig a hole that is as deep as the height of the root ball and 2-3 times the width.

3. Remove the tree from its container. Lay the tree on its side and push on the sides of the container to loosen the root ball from the sides of the container. Carefully remove the tree from the container keeping the soil around the roots intact. **Don't yank the tree out of the container by the trunk as this can separate the roots from the tree.**

4. Locate the root flare. Remove any excess soil piled on top of the root flare (or root collar) of your tree – the widened base of the main stem just above where the roots start.



Steps to Tree Planting

5. **Massage the roots.** Massage the roots on all sides, including the bottom, so they are loose and ready to grow out horizontally. Straighten or remove circling roots. If the tree is really root bound and the roots are circling around the edges of the container, cut an X across the bottom of the root ball and then 4 vertical slices along the sides of the root ball with a sharpedged trowel.

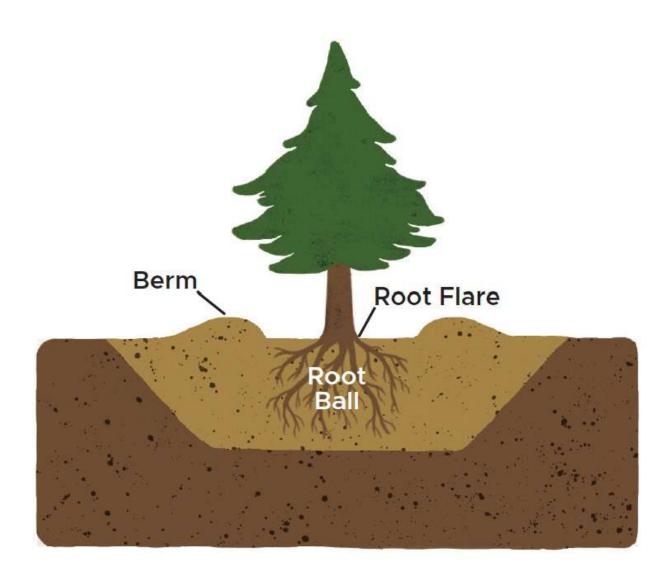
6. **Remove any nursery stakes or tags.** These will not help support your new tree and will only cause harm to your tree as it grows.

7. **Place tree in the hole.** Make sure the trunk is straight – have someone view the tree from several directions to confirm that it is straight. In the hole, the root flare of your tree should be visible just above the ground.

8. Fill the hole. Backfill around the root ball with original soil, breaking up any large chunks and gently packing the soil between roots. Use the remaining soil to create a berm (a low ring of dirt) outside the root ball perimeter.

9. Water. Water thoroughly right after planting to help remove air pockets in soil.

10. **Mulch**. Spread a 3-inch deep ring of mulch or wood chips around the base of the tree. Keep mulch about a hands-width away from the trunk to prevent rot.



City of Kirkland Online Tree Planting Class Tree Planting Quiz!

Answer the following questions to complete your online tree planting class.

- * 7. How deep and wide should the planting hole for your tree be?
 - \bigcirc 5-6 feet deep and 1 foot wide.
 - As deep as the root ball and 2-3 times the width of the root ball.
 - Only a few inches, the roots will grow down and dig the tree in on its own.

* 8. When is the best season to plant a tree?

 \bigcirc Ideally in the fall or spring.

 \bigcirc The middle of summer for shade.

○ When the ground is frozen so the tree becomes tough in all conditions.

* 9. Mulch helps protect the soil around the tree and slowly adds nutrients over time. How deep should the mulch layer be around the tree?

○ 3 feet.

◯ 3 inches.

 \bigcirc Just enough to thinly cover the soil.

City of Kirkland Online Tree Planting Class Contact Information

Please enter your contact information so that we can verify completion of this course with your tree rebate.

* 10. Address	
Name	
Street Address	
City/Town	
State/Province	
ZIP/Postal Code	
Email Address	
Phone Number	

Tracking Spreadsheets

GENERAL INTEREST

	Date	Full Name	Email Address	Phone Number	Street Address	Neighborhood	Projects Interested In	Downspout Status	Why Interested?	How did they hear?	Comments	Contact Preference	Date Contacted
									To beautify or improve my yard				
									Managing rainwater or				
							Rain Garden		drainage issues on my property				
(example)	25-Sep	John Doe	<u>stormwater@kirklandwa.gov</u>	425-587-3857	123 5th Ave	Highlands	Cistern Native Landscaping	Possibly Connected	Rebates for Yard Smart Projects Protecting the environment	Community Event		Email	26-Sep
(cxumpic)	23 SCP	30111 200		120 007 0007	120 001100	Inginanas	Nutive Eunascuping	Tossibly connected		community Event		Lindii	20 500
													1

SITE VISITS													Average Turnaround Time		14.0		
	Site Visit Date	Time	Name	Email	Phone	Address	Map Created	Confirmation?	811 Called?	Visit Conducted?	Photos Uploaded?	Report Written	Report Reviewed	Report Sent to Participant	Turnaround Time	Recommended Projects	Follow Up Date
																Native Landscaping	
(example	10/14/2021	9:00 AM	John Doe	stormwater@kirklandwa.gov	425-587-3857	123 5th Ave	Yes	Yes	Yes	Yes	Yes	Sent for Review 10/15/21	10/28/2021	10/28/2021	14	Cisterns	11/5/2021

	Projects Approved	Projects Finished	Estimated Participant	Estimated NEP Rebates	Actual NEP Rebates Paid Out	Average Rebate						DIY	1		Average Project Length			1 1	1 1
	1	1	\$ 4,879.35	\$ 3,000.00	\$ 3,000	00 \$ 3,000.00					Cor	ntractor	0		91.00		1		
	Name	Email	Phone	Address	Site Visit Date	Report Sent Date	Project Approval Received	Project Approval Sent	Estimated Cost	Estimated Rebate	NEP/KCD/ COK Proj	ject Type Di	IY or Contractor	Project Inspected	Project Length	Rebate Paperwork Received	Paperwork to Finance	Rebate Amount	Rebate Iss
example)	John Doe	stormwater@kirklandwa.gov	425-587-3857	123 5th Ave	14-0	ct 28-Oct	30-Nov	12/3/2021	\$ 4,879.35	\$ 3,000.00	Native NEP Landsci	aping Di	IY	3/4/2022	91	3/10/2022	2 3/12/2022	\$ 3,000.00	4/1/2
																		<u> </u>	
																	-	<u> </u>	+

PROJECT IMPACT

		Rain Garden	0)	Total Projects	Total SF of NL	Total SF of Imperv. Area	Total Cistern Capacity	Total Gallons Managed	Total Participant Cost	Total Rebate	Average RPG			
		Native Landscaping	0		1	1,142.00	952.00	530.00	23,019	\$ 4,856.79	\$ 3,000.00	\$ 0.13			
		Cisterns	0)		Average SF of NL	Average SF Impervious	Average Cistern Capacity	Average Gallons Managed	Average Project Cost	Average Rebate	Average RPI			
		Downspout Disconnect	0			1,142	952	530	23,019	\$ 4,856.79	\$ 3,000.00	\$ 3.15			
		Tree Planting	0												
	Name	Email	Phone	Address	Project	Square Feet of NL	Impervious Area Managed	Total Cistern Capacity	Gallons Managed	Project Cost	Rebate Amount	Rebate Per Gallon Managed	Rebates Per SF Impervious	Comments	Question
(example)	John Doe	stormwater@kirklandwa.gov	425-587-3857	123 5th Ave	Native Landscaping	1142	952	530	23019	\$ 4,856.79	\$ 3,000.00	\$ 0.13	\$ 3.15		

Appendix D - Site Assessment Materials

- Data Collection Form
- Sample Report

Data Collection Form

PROPERTY OWNER INFORMATION

Name								
Address								
Drainage basin								
Critical areas or easements?								
% of lot that is impervious								
Estimated impervious surface (ft ²)								
Est. annual								
stormwater runoff	F	t²	X 0.62	=	Gallons	Х	39	=
	Impervious				per 1" storm	Inch	es/year	Gallons per
	Area							year

CURRENT CONDITIONS AND SITE HISTORY

Permission to take photos?	O Yes O No
Primary uses of outdoor space?	O Growing food O Play space O Relaxing O Not used much O Other:
Ideas or plans for yard renovation?	
Any specific site needs like wheelchair access?	O Yes O No
Specific needs notes:	
Any issues with water on your property or signs of accumulation?	 O Pooling water O Seeps or springs O Spongy/mossy areasO Eroded areas O Other:
Enter notes/locations:	
Existing water management	O Rain barrel O Rain garden
systems on-site?	O Dry well O Other:
Enter notes/locations	
Basement or crawl space?	O Basement O Crawl space O Neither

SLOPES/SUN

Steep slopes?	O Yes O No	Mark locations and directions on map
Sun exposure	FRONT YARD:	BACK YARD:
	O Sunny O Shady O Mixed	O Sunny O Shady O Mixed

EXISTING VEGETATION

Invasive weeds found onsite	O None O English ivy
	O Blackberry O Butterfly bush
	O Other:
Location(s) of invasive weeds	
Notes on existing conifers and deciduous trees	
Canopy cover	O 0-25% O 50-75%
	O 25-50% O 75-100%
Is there lawn?	O Yes O No
Notes on lawn (location, condition)	

UTILITIES

Mark 811 utilities on map:

Yellow = gas Red = electric	Green = sewer Orange = phone and cable				
Blue = water		Black = overhead power lines			
Fiber optic lines?	O Yes	O No	O Not sure	Mark on map	
Oil tank?	O Yes	O No	O Not sure	Mark on map	
Septic drain field?	O Yes	O No	O Not sure	Mark on map	
Irrigation system?	O Yes	O No		Mark on map	

SOIL

Mulch in planting beds?	O Wood chips O Compost	O Shredded wood O Rock	O Beauty bark O None
	O No planting beds	O Other:	
Soil ever amended with compost?	O Yes O No		
If yes, how long ago and where?			

SOIL TESTS

Test for compaction by probing soil at various locations in yard. Record results:		
Soil texture test results. Soil type:	O Clay O Sand	O Loam O Mixture:
Notes about soil texture test:		

DOWNSPOUTS

Notes on condition of roof and gutters:	

Notes on dow	nspout conditions - Take		Mark all on map with ID	
Downspout	Connected or	Drains to (storm, dry well,	Initial recommendations	
ID	disconnected?	lawn, garden, unk)	(disconnect? To what?)	

POTENTIAL SOLUTIONS

PAVEMENT REMOVAL				Mark on map
Interest in removing any unused pavement?	O Yes	O No		
Replacement for pavement?	O lawn		O native landscap	ing
	O rain ga	rden	O other:	
Constraints?				
Notes/description of potential location				

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CISTERNS

CISTERNS			Mark on map
Opportunities for cistern installation?	O Yes	O No	
Constraints?			
Notes/description of potential location			

PLANTING TREES

PLANTING TREES			Mark on map
Opportunities for tree planting?	O Yes O No		
Constraints?			
Tree notes	Location: Tall/Med/Small? Sun/Shade/Mixed? Species:	Location: Tall/Med/Small? Sun/Shade/Mixed? Species:	Location: Tall/Med/Small? Sun/Shade/Mixed? Species:

NATIVE LANDSCAPING			Mark on map
Good locations for native landscaping?	O Yes	O No	
Opportunity to direct disconnected downspouts to	O Yes	O No	O Possibly
location?			
Constraints?			
Notes/description of potential location(s)			

RAIN GARDEN				Mark on map
Interest in/opportunity for installing a rain garden?	O Yes	O No	O Possibly	
Constraints?				
Notes/description of potential location				

EXPLAIN INFILTRATION TEST – CONDUCT AT END OF SITE VISIT, IF NEEDED

RAINWATER MANAGEMENT OPPORTUNITIES

Initial recommendations for property:	O Cisterns O Rain garden O Native landscaping
	O Disconnect downspouts O Planting trees
Notes:	

Sample Report

CITY OF KIRKLAND, WASHINGTON





A smart yard works for you and your environment

Dear

Thank you for participating in the Yard Smart Rain Rewards yard consultation! Together we collected a lot of information on the characteristics of your landscape to help us identify the best ways to make your yard smart. In this report you will find a summary of your property's site conditions and recommendations for Yard Smart solutions best suited to your property.

, Kirkland, WA

Current Conditions at



Site History

You bought your house in 2019 and have been primarily cleaning the yard of weeds since then. You are possibly interested in creating a more level backyard. During our site visit you indicated you were interested in rain-capture cisterns and possibly native landscaping in the backyard.



Impervious Surface

Impervious surfaces are the hard surfaces that do not absorb water, like driveways and roofs. Your total lot size is 11,223 square feet, and approximately 4,109 square feet, or 37 percent of that is impervious surface. Based on Kirkland's average annual rainfall, approximately 99,356 gallons of water—enough to fill 1,242 average-sized bathtubs—fall on those surfaces, becoming potential stormwater runoff to Forbes Creek each year.



Downspouts

The house has 4 downspouts in good condition. Locations of the downspouts are noted on the map below. All downspouts are disconnected from the city stormwater drainage system and flow to your backyard and the open space to the north.



Topography

The topography of the site influences how water moves through your property. Your property is moderately sloped from south to north, with the backyard sloping away from the house.



Soil Quality

Soils on your property are sandy loam soil. Sandy loam is typically well-draining and supportive of plant growth. However, the areas of bare soil and mossy soil in your backyard are moderately compacted, which impacts how well water is able to drain. Converting these areas to native landscaping with mulch will improve soil health.



Vegetation

There is a mix of lawn, planting beds, and trees including Western Red Cedar and Douglas Fir on your property. Small patches of invasive Himalayan Blackberry are beginning to establish on your property from the open space to the north. Refer to the King County website for information on controlling the spread of <u>Himalayan Blackberry</u>.



Site Constraints

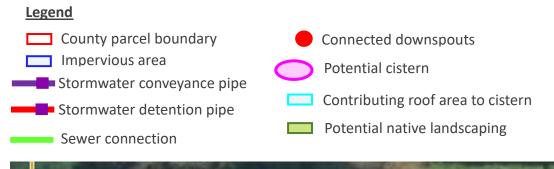
The primary constraint for installing stormwater features on your site is the sewer connection running through your backyard. No trees or large shrubs should be planted within 10 feet of this pipe, and mechanical digging in this area is not recommended.

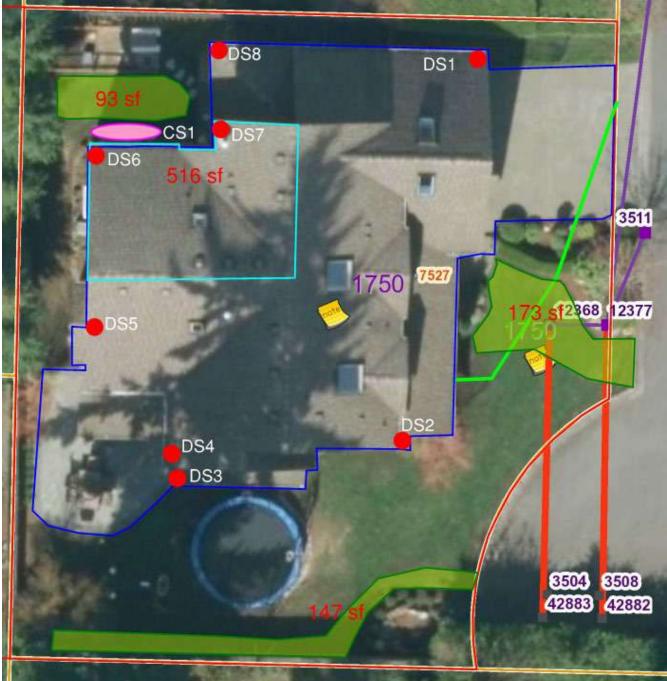
Opportunities to Become Yard Smart

Based on the information that we collected during the consultation, we recommend the following Yard Smart solutions for your property. The solutions are listed in the order of how effectively they will manage stormwater. See the map of your property on the next page for the best location for each feature. For full descriptions and requirements for each solution, refer to your project packet.

Feature	Notes
Cistern	Cisterns are large rain barrels that collect roof water to help slow the flow of runoff and provide a water source for summer irrigation.
	You indicated that you are interested in installing a cistern in your yard at location CS1 on the map below.
	To be eligible for Rain Rewards rebates, cisterns or a series of rain barrels must drain a total minimum roof area of 400 square feet and have a capacity greater than 200 gallons and less than 1,000 gallons.
	A cistern placed at CS1 would drain a roof area of 711 square feet from downspouts DS1 and DS4 and would provide an estimated potential of 3,086 gallons of summer irrigation water. Overflow from cistern CS1 can be directed to your backyard.
	Cisterns must be placed a minimum of 5 feet away from property lines and be installed on a solid, level pad concrete pad or other surface that will not allow the cistern to sink or tip.
Native Landscaping	Native landscaping is a mix of plants chosen to fit the space, sun exposure, and water availability for a location. To help absorb more rainwater runoff and slow the flow of water from your downspouts, consider converting portions of bare soil, moss, lawn, and weeds in your backyard with native landscaping.
	Choose plants that prefer your yard's mix of sun/shade and moist soil. Example planting plans for can be found using the <u>King County Native Plant</u> <u>Guide</u> . Great plant options for your landscape can be found at <u>King County's</u> <u>Go Native Plant Guide</u> or <u>Great Plant Picks</u> .
	To be eligible for Rain Rewards rebates, native landscaping must replace a minimum 400 square feet of lawn, invasive weeds, or impervious surface. The potential areas mapped below represent approximately 1,393 square feet of lawn to native landscaping conversion.
	You are not required to landscape the entire area mapped below and final location of landscaping can be altered as long as total converted area is at least 400 square feet.
	 Always call 811 before you dig to locate buried utilities. Within 10 feet of buried utilities: Do not rototill or do any mechanical digging. Hand dig only.
	 Plant only low shrubs and groundcover to prevent root damage to utilities. Do not plant large trees or shrubs within 10 feet of the side sewer
	connection to prevent future root damage.

Your Property





Contact Us. If you have any questions about these recommendations, please contact your Yard Smart Coordinator: Aaron Hussmann at 425-587-3857 or <u>YardSmart@kirklandwa.gov</u>

Next Steps

Once you decide which of the recommended Yard Smart Rain Rewards solutions will work for you, please complete the appropriate Project Approval Form in your site visit packet or found here: <u>http://bit.ly/YardSmartApproval</u>. If you have questions regarding the approval form or the rebate process, please reach out to us (<u>yardsmart@kirklandwa.gov</u> or 425-587-3857).

What Else Can You Do?

- Add compost and mulch to your yard. Compost and mulch improve soil quality, increase water filtration, and prevent weed germination, reducing maintenance.
- **Practice natural yard care**. Natural yards are more drought tolerant and require fewer pesticides and fertilizers. Learn about simple practices in the Natural Yard Care booklet provided during your consultation.
- Store household chemicals on a shelf in a cool, dry location. Keep packaging in good condition to prevent leaks. Household chemicals like cleaners, fertilizers, and pesticides stored on the ground or in leaky containers can pollute stormwater runoff.
- **Pick up pet waste**. Pet waste can be carried by rainwater to storm drains and into creeks, lakes and Puget Sound without treatment. It causes bacterial contamination in waterways and affects our ability to use them for recreation.
- Wash your car at a car wash. Car washes are required to send polluted water to the sanitary sewer system for treatment. If you wash your car at home, wash it on a grassy or gravel area using chlorine-free, phosphate-free, biodegradable soap.
- Don't drip and drive. Fix oil leaks in your car as soon as possible. In the meantime, use drip pans or cardboard to catch and prevent leaks from polluting our streams. Learn more at <u>fixcarleaks.org</u>.



www.kirklandwa.gov/yardsmart



Appendix E - Program Forms

- Project Approval Form Rain Gardens, Native Landscaping, Cisterns
- Project Approval Form Downspout Disconnection
- Rebate Packet Rain Gardens, Native Landscaping, Cisterns (includes rebate form, maintenance agreement, and W-9)
- Rebate Form Downspout Disconnection
- Rebate Form Tree Planting



Please complete pages 1-2 of this form and the page(s) specific to your projects.

- Review the Project Requirements boxes on each project page for guidance on design and installation requirements.
- City of Kirkland staff will contact you with project approval within 2 weeks. Approval may include required changes to the plan that ensure your project meets qualifications.
- Projects that are installed without completed and approved project approval forms will not receive a rebate.

Contact Information

lame
Phone
Email
Project Address

This form is being submitted for the following project(s) (check all that apply):

- □ Native landscaping page 3
- □ Cisterns page 7
- □ Rain garden page 9



Send signed and completed form to:

YardSmart@kirklandwa.gov

-or-

Aaron Hussmann City of Kirkland 123 5th Ave Kirkland, WA 98033

Materials and Services - Estimated Costs

Please itemize materials and services, e.g. mulch, labor, plants, etc.

- Attach extra pages, if needed.
- You may attach a detailed, itemized contractors' estimate instead of an itemized list.

Materials/Item	Description	Units (yards, hours, etc.)	Price per unit	Cost

Projected total cost: ____

Statement of Understanding

Complete and sign the Statement of Understanding below. Unsigned forms will not be processed.

I, ______, have completed this form accurately to the

best of my ability.

To obtain a rebate after the project is completed, the installed project(s) must be inspected by the City of Kirkland and rebate paperwork must be completed.

Property Owner's Signature _____ Date _____

Print completed document & sign

Native Landscaping

Project Requirements

Location

- Must be combined with disconnecting minimum 400 square feet (800 sf for non-single family residential) of roof area or other impervious surface from City stormwater drainage system.
 - Landscaping must be in flow path of newly disconnected area.
- □ Landscaping area must be at least 20% of the size of impervious area draining to the landscaping (i.e. Draining 400 square feet of roof area requires 80 square of new native landscaping).
- □ On private property, outside of the public right of way (exceptions made on a case-bycase basis and may require additional permits).
- □ Call 811 for utility locates before you dig.
- □ Locate trees and shrubs 10' from known underground utilities, 10' from buildings, 10' from property lines, 30' from corner curb, 20' from streetlights and other trees
- □ Trees planted under power lines must be less than 25' tall at maturity
- □ Project must not send water onto a neighbor's property

Design/Installation

- □ Native landscaping must replace lawn, weeds, extremely compacted soil, or pavement
- □ Lawn replacement requires either removal of or killing the grass (e.g. cardboard over a winter will kill most lawns) prior to tilling and amending soil
- □ Replacing pavement requires pavement and gravel removal, and then tilling and amending soil
- □ Minimum of 50% plant material native to the Pacific Northwest region (cultivars are acceptable). 50% of plants can be non-native but must not be invasive species
- □ Plant selection is appropriate for site conditions (sunny/shady, wet/dry, etc.)
- □ Recommended planting density
 - Trees 15 to 20 feet on center
 - Shrubs 6 to 8 feet on center
 - Groundcover 3 to 4 feet on center
- □ Scarify or till extremely compacted soils to a depth of 12 inches
- □ Dig 1-3 inches of compost into the top 5 inches of soil in the planting area
- □ Finish with a 3-inch plant-based mulch layer (arborists wood chips or equivalent)
- **Do not use landscape fabric or plastic sheeting as a weed barrier**

Formal City of Kirkland approval required

Native Landscaping

a) Who will be conducting this work?	O Property Owner	O Contractor	
b) Project Installer & contact info?			

Site Details

c) What kind of surface will your native landscape replace?	O Lawn O Bare Soil	O Pavement O Invasive Plants
d) Will the landscape receive runoff from a roof or impervious surface that will be disconnected from the City stormwater drainage system?	O Yes	O No
e) If yes, how many square feet of roof area or impervious surface will flow to landscaping?		square feet

Sizing Details

f) Size of native landscaping project area?	square feet	Minimum 10% of impervious area (i.e. 400 sf of roof area requires 40 square feet of native landscaping)
g) Amount of compost needed	cubic yards	Minimum 1-3 inch depth Multiply project area by planned compost depth. Divide result by 324
h) Amount of mulch needed	cubic yards	Minimum 3-inch depth Multiply project area by planned mulch depth. Divide result by 324

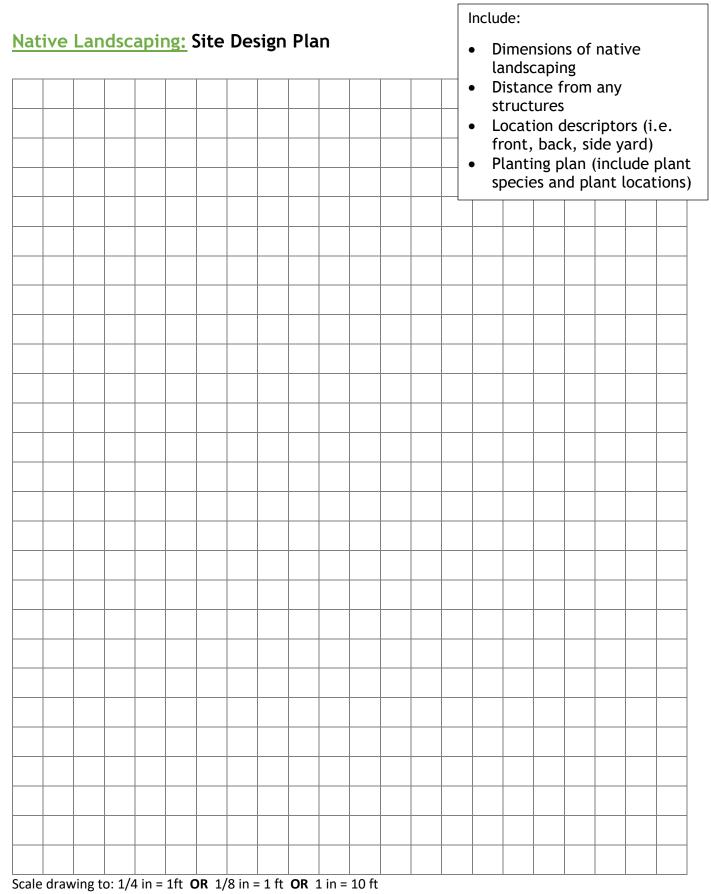
Required Supporting Documents

- □ 2-3 "before" images of your landscape area
- □ Plant List (page 5)
- □ Site design plan (page 6)

Native Landscaping: Plant List

- List names of plants and quantities proposed for each planting area. Include quantity and pot size
- Identify native and non-native plants
- Include names and quantities of existing plants used in plan

Plant Species (Note native species with an "N")	Quantity	Pot Size
Ex. Red-flowering currant (N)	1	1 gallon



Cisterns

Project Requirements

Water can be used for irrigation only (i.e. not drinking water)

Location

- □ On private property, outside of the public right of way
- □ At least 5 feet from property line
- $\hfill\square$ Above ground
- □ Cisterns must be installed on a solid, level concrete pad or other surface that will not allow the cistern to sink or tip
- □ Overflow drains onto a pervious surface (grass, garden, rain garden, etc.)
- □ Overflow drainage outlet directed a minimum of 5 feet away from foundation
- □ Project does not send water onto neighbor's property

Design

- □ Cistern must drain a minimum roof area of 400 square feet
 - Roof area must be newly disconnected from City stormwater drainage system
- □ Cistern size: 200 to 1,000 gallons
- □ Secure lid
- □ Drain valve at bottom of tank for releasing water slowly valve must remain open during the "wet season" months of October-May
- □ Overflow with pipe that drains onto a pervious surface (grass, garden, etc.)
- $\hfill\square$ Clear access for clearing the inlets when necessary

Formal City of Kirkland approval required

Cisterns

a) Who will be conducting this work?	O Property Owner	O Contractor
b) Project Installer & contact info?		

System Specifications

c) What is the capacity of the cistern(s)?	gallons	At least 200 gallons
d) What is the size of roof area draining to cistern(s)?	square feet	Minimum 400 square feet
e) What material will be used for the cistern foundation?		Concrete pad, packed earth or sand, etc.
f) Size of foundation?	square feet	
g) Describe filtration system components		
h) Where will cistern's overflow be directed to?		Direct a minimum 5 feet away from foundation

Required Supporting Documents

- □ An image of the cistern (e.g. an image from a website)
- □ Sketch indicating proposed location of cistern, in relation to buildings and other structures

Rain Gardens

Project Requirements:

Location

- □ Call 811 for utility locates before you dig. Do not locate garden above utilities
- □ Installed in location which passes a soil drainage test
 - 1 to 2 inches per hour is preferred, 0.5 inches per hour minimum
- □ Garden located on a slope not greater than 10% (a 1 foot drop over 10 feet length)
- □ Minimum setback of 10 feet from top of rain garden to buildings, 10 feet from utilities, and 5 feet from property lines. Minimum setback of 15 feet from buildings with crawl space or basement elevation that are below the overflow point of the infiltration system
- □ Minimum setback of 50 feet from any slope greater than 20%
- Do not locate immediately upslope of buildings
- □ Locate on private property, outside of the public right of way

Design/Installation

- □ Lawn replacement requires either removal of or killing the grass (e.g. cardboard over a winter will kill most lawns) prior to tilling and amending soil
- □ Replacing pavement requires pavement and gravel removal, and then tilling and amending soil
- □ Rain garden is designed per the latest *Rain Garden Handbook for Western Washington*
- □ Rain garden must drain a minimum of 400 square feet or 800 square feet for multifamily or non-residential property
- □ Never send more than 1,000 square feet of roof or driveway runoff to a single rain garden
- □ Garden ponding area is 6 to 12 inches deep
- □ 4 inches of amended soil tilled into upper 12 inches of soil or 12 inches of 60% sand, 40% compost blend
- □ Maximum bottom slope of garden is 0.5%
- □ Minimum 1-foot depth between bottom of bioretention soil mix and water table
- □ No invasive plant species
- □ Plants selection is appropriate for site conditions and placed in appropriate zones of rain garden
- □ Install streambed cobble at inlet and overflow to dissipate runoff
- □ Finished with a plant-based mulch layer of 3"
- □ Do not use landscape fabric or plastic sheeting as weed barrier

Formal City of Kirkland approval required

Rain Gardens

Who will be conducting this work?	O Property Owner	O Contractor
Landscape Designer & contact info?		
Project Installer & contact info?		

Site Details

What kind of s	surface will your rain garden	replace? (choos	se one)
O Lawn	O Pavement	O Bare Soil	O Invasive Plants

Sizing Summary

Refer to Rain Garden Handbook for Western Washington to complete this section

Sizing Calculations						
A. Soil drainage rate	inches per hour	Use results of soil drainage test				
B. Area draining to rain garden	square feet	See pages 18-19 of Handbook				
C. Desired ponding depth	inches	Designer's preference (6" or 12")				
D. Desired performance level	BEST					
E. Rainfall region	Region 2	See map on page 22 of Handbook				
F. Sizing factor	%	Use sizing chart on page 21 of Handbook				
G. Soil texture		Sand, silt or clay?				
Results/ Rain Garden Dimensio	ns					
Required size of top surface of ponding area	square feet	Multiply area draining to garden (B) by sizing factor (F)				
Design dimensions for top surface of ponding area	' Width X' Length	Dimension that fit in available space & based on designer preference				
Overflow containment area	' Width X' Length	Calculated by adding 1 foot horizontal to all sides for the 6- inch vertical depth required on a 2:1 slope. See page 24 of Handbook				

Rain Garden Inlet

□ How will water be delivered to your rain garden?

○ Pipe ○ Cistern ○ Swale ○ Other _____

Rain Gardens

Soil Amendments

Amount of rain garden soil mix needed	cubic yards	4-inch or 12-inch depth Multiply top surface of ponding area by proposed soil depth. Divide result by 324
Amount of mulch needed	cubic yards	3-inch depth Multiply top surface of ponding area by proposed mulch depth. Divide result by 324

Required Supporting Documents

- □ 2-3 "before" images of your rain garden area
- □ Plant List (page 12)
- □ Site Design Plan (page 13)

Rain Gardens: Plant List

- List plants proposed for rain garden. Include quantity and pot size
- Identify native and non-native plants

Plant Species (Note native species with an "N")	Quantity	Pot Size
Ex. Red-flowering currant (N)	1	1 gallon

Rain Gardens: Site Design Plan													 Include: dimensions of the rain garden distance from any structures location descriptors (i.e. 								
															front	t, ba	ck, s	side	yard)	- CI
														•	location of g	arde	en ar	niet Id ho	and w w	over	flow will
															be o	conv	eyed	l to t	he g	arde	en
														•	spe	cies	and	n (in plan	t loc	e pla atio	ant ns)
															-			-			
																				ļ	
																				ļ	

Scale drawing to: 1/4 in = 1ft OR 1/8 in = 1 ft OR 1 in = 10 ft

Simple Downspout Disconnection - Project Approval Form

Downspout Disconnection

Project Requirements:

- □ Cut off downspout at least 9 inches above standpipe
- Block standpipe with expansion plug or cap
- □ Add elbow and pipe to carry flow away from house.
- Point of discharge must be a minimum 5 feet from building (with crawlspace), 10 feet from building (with basement), 5 feet from property line, 10 feet from neighboring buildings, 50 feet from steep slopes
- Do not send water onto a neighboring property, basement or sidewalk
- Ground must slope away from buildings and nearby property lines
- □ Add splash block, rock, or gravel filled trench to slow and disperse runoff

Splash Block & Rock Pads

- □ Route no more than 700 square feet of roof area to a single splash block
- □ Spread runoff into lawn, beds, a rain garden or a rock-filled infiltration trench, sloping away from nearby buildings, no steeper than 15%
- □ Locate minimum 5 feet from building (with crawlspace), 10 feet from building (with basement), 5 feet from property line, 10 feet from neighboring buildings

Formal City of Kirkland approval required

Basic Information

Name:	 	
Phone:		
Email:		
Project Address:		

Project Information

Downspout #1	Downspout #2				
Downspout ID (from site report):	Downspout ID (from site report):				
Contributing roof area: square feet	Contributing roof area: square feet				
How is the water from the downspout(s) dispersed?	How is the water from the downspout(s) dispersed?				
□ Splash block □ Rock pad	□ Splash block □ Rock pad				
Where does runoff flow?	Where does runoff flow?				

Project Rebate Checklist

Submit materials for a rebate after your Yard Smart Rain Rewards project(s) has been completed and invoices have been paid.

Please complete and include the following items in your submission:					
Project Rebate Form					
 Maintenance Agreement Sign and date form 					
 W-9 form (Request for Taxpayer Identification Number and Certification) Fill out name, address and social security number fields Single-family property owners, check "Individual/Sole Proprietor" box Sign and date the form 					
All itemized invoices and receipts showing costs of project installation and materials. If using a contractor, invoice must show business name and address.					
Proof of payment (credit card receipts or copy of canceled checks)					

Email your rebate materials to <u>YardSmart@kirklandwa.gov</u> or send to Aaron Hussmann, City of Kirkland, 123 5th Ave, Kirkland, WA 98033.

Rebate checks will be mailed within one month from when the complete rebate materials are received by the City of Kirkland.

If you have questions, please contact Aaron Hussmann (425-587-3857 or <u>YardSmart@kirklandwa.gov</u>).





Project Rebate Form

Basic Information

Name: _	
	Address:
Mailing	Address (if different):

Project Information

Project 1:	Cistern	Native Landscaping		🗆 Rain garden	
Project Imple	menter?	□ Property owner	□ Cont	ractor	
Final project area or cistern capacity: square feet/gallons				square feet/gallons (circle one)	
Rebate-eligible project costs: \$ (Rebate-eligible projects were listed in Project Approval letter)					

Changes made to approved plans (attach new plan, if there is an updated planting or conveyance plan):

Project 2:	Cistern	□ Native Landscaping	🗆 Rain garc	len			
Project Imple	menter?	□ Property owner □	Contractor				
Final project	inal project area or cistern capacity: square feet/gallons (circle one)						
Rebate-eligible project costs: \$ (Rebate-eligible projects were listed in Project Approval letter)							
Changes made	hanges made to approved plans (attach new plan, if there is an updated planting or conveyance plan):						

Complete and sign this Statement of Understanding. Unsigned forms will not be processed.

l,	, have completed this form accurately to the best of
my ability. To obtain a rebate after the project(s) is a	completed, I will need to complete the Project Rebate
Form after the project is approved by the City of Kirk	kland. Upon completing the Project Rebate Form, I will
agree to maintain my project for 5 years, and give th	e City of Kirkland permission to access and assess my
project(s) for that duration.	

Signature	Date
OFFICE USE ONLY	
Date rebate form & attachments received	Date check mailed
Total eligible DIY project costs	\$
Total eligible contractor project costs	\$
Gallons of runoff managed	gallons

Check one of the following:

- □ Project approved for \$______ rebate. Rebate 100% eligible DIY project costs, 75% eligible contractor project costs. Will not exceed \$3,000 for single-family projects or \$6,000 for larger-site projects.
- □ Rebate contingent upon changes to rebate form and materials listed below:



SURFACE WATER MANAGEMENT IMPROVEMENT MAINTENANCE AGREEMENT

This Agreement (Agreement) is made on the _____ day of ______, 20____, by and between the City of Kirkland (City) and (Homeowner).

This Agreement establishes the understanding between the City of Kirkland and the Homeowner regarding the terms and conditions governing Homeowner's participation in the City of Kirkland's Yard Smart Rain Rewards Program. Homeowner owns the real property located at

, Kirkland, Washington (Property).

TERMS AND CONDITIONS

In consideration of their mutual promises and commitments, the City of Kirkland and Homeowner hereby agree as follows:

- 1. Homeowner agrees to maintain the Surface Water Management Improvement according to its original design approved in Homeowner's Yard Smart Rain Rewards Project Approval Form and as depicted in Exhibit A (copy of Project Approval Form).
- 2. This Agreement is effective upon full execution of this Agreement and will expire five years from that date.
- 3. During the term of this Agreement, Homeowner will maintain the Surface Water Management Improvement and exercise reasonable care to avoid interference with, damage to, or loss of function of the improvement. Homeowner shall pay for the costs and expenses that are related to its maintenance obligations.

For the five year duration of this Agreement, the City shall contact Homeowner annually regarding maintenance of the Surface Water Management Improvement.

- 4. Homeowner grants the City the irrevocable right to use photographs of their Surface Water Management Improvement in all forms and media.
- 5. Nothing contained in this Agreement shall be construed to require the Homeowner to alter or improve the Property or any access to the Property. Homeowner will provide prior written notice to and consult with the City regarding any planned alterations to the Property or Surface Water Management Improvement that may affect the Improvement's performance. (Examples would include additions to the property that would affect roof drainage area, alterations to gutters or reshaping the garden.)
- 6. Homeowner grants the City permission to enter onto the Property, at reasonable times to be arranged in advance by mutual agreement, to:

- a. inspect the final installation to determine if the Surface Water Management Improvement meets program standards.
- b. monitor and evaluate the maintenance and performance of the Surface Water Management Improvement.
- 7. If the Homeowner chooses to discontinue or remove the improvement prior to the expiration of this Agreement, Homeowner will be required to reimburse the City for the amount of the Yard Smart Rain Rewards Rebate. This cost will be pro-rated as described in the schedule below:

Within Year 1	100% of rebate
Within Year 2	80% of rebate
Within Year 3	60% of rebate
Within Year 4	40% of rebate
Within Year 5	20% of rebate
After Year 5	0% of rebate

This Agreement shall terminate upon repayment of the Yard Smart Rain Rewards Rebate in accordance with this Agreement.

8. All written notices or reports required under this Agreement shall be given by posting in first class mail as follows:

To City of Kirkland:	Public Works Department
	City of Kirkland
	123 5 th Avenue
	Kirkland, WA 98033

	То	Homeowner:
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9. Homeowner shall defend, indemnify and hold the City, its officers, officials, employees and volunteers harmless from any and all claims, injuries, damages, losses or suits including attorney fees, arising out of or resulting from its negligence or breach of any of Homeowners obligations in performance of this Agreement.

In the event of liability for damages arising out of bodily injury to persons or damages to property caused by or resulting from the concurrent negligence of the Homeowner and the City, its officers, officials, employees, and volunteers, the Homeowner's liability hereunder shall be only to the extent of the Homeowner's negligence. The provisions of this section shall survive the expiration or termination of this Agreement.

10. This Agreement, together with all attachments and addenda, represents the final and completely integrated Agreement between the parties regarding its subject matter and supersedes all prior negotiations, representations, or agreements, either written or oral. This Agreement may be amended only by written instrument properly signed by both parties.

City of Kirkland and Homeowner have executed this Agreement, effective on the date first written above.

By:		Date:
J	City of Kirkland	
	-	
_		
Ву:		Date:
	Homeowner	
		Date:
	Homeowner	Date:

OFFICE USE ONLY
Homeowner(s):
Legal Description:
Assessor's Tax Parcel Number:
Rebate Amount:

5.	2 Business name/disregarded entity name, if different from above		
Print or type See Specific Instructions on page	 3 Check appropriate box for federal tax classification; check only one of the following seven boxes: Individual/sole proprietor or C Corporation S Corporation Partnership single-member LLC Limited liability company. Enter the tax classification (C=C corporation, S=S corporation, P=partners Note. For a single-member LLC that is disregarded, do not check LLC; check the appropriate box in the tax classification of the single-member owner. Other (see instructions) ▶ 5 Address (number, street, and apt. or suite no.) 	the line above for	4 Exemptions (codes apply only to certain entities, not individuals; see instructions on page 3): Exempt payee code (if any) Exemption from FATCA reporting code (if any) (Applies to accounts maintained outside the U.S.) and address (optional)
See Speci t	6 City, state, and ZIP code	City of Kirkland 123 5th Ave Kirkland, WA	d
	7 List account number(s) here (optional)		
Par	t I Taxpayer Identification Number (TIN)		
backu reside entitie <i>TIN</i> or Note.	your TIN in the appropriate box. The TIN provided must match the name given on line 1 to av p withholding. For individuals, this is generally your social security number (SSN). However, for ant alien, sole proprietor, or disregarded entity, see the Part I instructions on page 3. For other is, it is your employer identification number (EIN). If you do not have a number, see <i>How to ge</i> in page 3. If the account is in more than one name, see the instructions for line 1 and the chart on page lines on whose number to enter.	ta or	
-			-

Part II Certification

Under penalties of perjury, I certify that:

- 1. The number shown on this form is my correct taxpayer identification number (or I am waiting for a number to be issued to me); and
- 2. I am not subject to backup withholding because: (a) I am exempt from backup withholding, or (b) I have not been notified by the Internal Revenue Service (IRS) that I am subject to backup withholding as a result of a failure to report all interest or dividends, or (c) the IRS has notified me that I am no longer subject to backup withholding; and
- 3. I am a U.S. citizen or other U.S. person (defined below); and

4. The FATCA code(s) entered on this form (if any) indicating that I am exempt from FATCA reporting is correct.

Certification instructions. You must cross out item 2 above if you have been notified by the IRS that you are currently subject to backup withholding because you have failed to report all interest and dividends on your tax return. For real estate transactions, item 2 does not apply. For mortgage interest paid, acquisition or abandonment of secured property, cancellation of debt, contributions to an individual retirement arrangement (IRA), and generally, payments other than interest and dividends, you are not required to sign the certification, but you must provide your correct TIN. See the instructions on page 3.

Sign	Signature of
Here	U.S. person ►

General Instructions

Section references are to the Internal Revenue Code unless otherwise noted.

Future developments. Information about developments affecting Form W-9 (such as legislation enacted after we release it) is at www.irs.gov/fw9.

Purpose of Form

An individual or entity (Form W-9 requester) who is required to file an information return with the IRS must obtain your correct taxpayer identification number (TIN) which may be your social security number (SSN), individual taxpayer identification number (ITIN), adoption taxpayer identification number (ATIN), or employer identification number (EIN), to report on an information return the amount paid to you, or other amount reportable on an information return. Examples of information returns include, but are not limited to, the following:

- Form 1099-INT (interest earned or paid)
- Form 1099-DIV (dividends, including those from stocks or mutual funds)
- · Form 1099-MISC (various types of income, prizes, awards, or gross proceeds)
- Form 1099-B (stock or mutual fund sales and certain other transactions by brokers)
- · Form 1099-S (proceeds from real estate transactions)
- Form 1099-K (merchant card and third party network transactions)

Date

- Form 1098 (home mortgage interest), 1098-E (student loan interest), 1098-T (tuition)
- Form 1099-C (canceled debt)
- Form 1099-A (acquisition or abandonment of secured property)

Use Form W-9 only if you are a U.S. person (including a resident alien), to provide your correct TIN.

If you do not return Form W-9 to the requester with a TIN, you might be subject to backup withholding. See What is backup withholding? on page 2.

By signing the filled-out form, you:

1. Certify that the TIN you are giving is correct (or you are waiting for a number to be issued).

2. Certify that you are not subject to backup withholding, or

3. Claim exemption from backup withholding if you are a U.S. exempt payee. If applicable, you are also certifying that as a U.S. person, your allocable share of any partnership income from a U.S. trade or business is not subject to the withholding tax on foreign partners' share of effectively connected income, and

4. Certify that FATCA code(s) entered on this form (if any) indicating that you are exempt from the FATCA reporting, is correct. See What is FATCA reporting? on page 2 for further information.

Note. If you are a U.S. person and a requester gives you a form other than Form W-9 to request your TIN, you must use the requester's form if it is substantially similar to this Form W-9.

Definition of a U.S. person. For federal tax purposes, you are considered a U.S. person if you are:

• An individual who is a U.S. citizen or U.S. resident alien;

• A partnership, corporation, company, or association created or organized in the United States or under the laws of the United States;

An estate (other than a foreign estate); or

• A domestic trust (as defined in Regulations section 301.7701-7).

Special rules for partnerships. Partnerships that conduct a trade or business in the United States are generally required to pay a withholding tax under section 1446 on any foreign partners' share of effectively connected taxable income from such business. Further, in certain cases where a Form W-9 has not been received, the rules under section 1446 require a partnership to presume that a partner is a foreign person, and pay the section 1446 withholding tax. Therefore, if you are a U.S. person that is a partner in a partnership to enducting a trade or business in the United States, provide Form W-9 to the partnership to establish your U.S. status and avoid section 1446 withholding on your share of partnership income.

In the cases below, the following person must give Form W-9 to the partnership for purposes of establishing its U.S. status and avoiding withholding on its allocable share of net income from the partnership conducting a trade or business in the United States:

• In the case of a disregarded entity with a U.S. owner, the U.S. owner of the disregarded entity and not the entity;

• In the case of a grantor trust with a U.S. grantor or other U.S. owner, generally, the U.S. grantor or other U.S. owner of the grantor trust and not the trust; and

• In the case of a U.S. trust (other than a grantor trust), the U.S. trust (other than a grantor trust) and not the beneficiaries of the trust.

Foreign person. If you are a foreign person or the U.S. branch of a foreign bank that has elected to be treated as a U.S. person, do not use Form W-9. Instead, use the appropriate Form W-8 or Form 8233 (see Publication 515, Withholding of Tax on Nonresident Aliens and Foreign Entities).

Nonresident alien who becomes a resident alien. Generally, only a nonresident alien individual may use the terms of a tax treaty to reduce or eliminate U.S. tax on certain types of income. However, most tax treaties contain a provision known as a "saving clause." Exceptions specified in the saving clause may permit an exemption from tax to continue for certain types of income even after the payee has otherwise become a U.S. resident alien for tax purposes.

If you are a U.S. resident alien who is relying on an exception contained in the saving clause of a tax treaty to claim an exemption from U.S. tax on certain types of income, you must attach a statement to Form W-9 that specifies the following five items:

1. The treaty country. Generally, this must be the same treaty under which you claimed exemption from tax as a nonresident alien.

2. The treaty article addressing the income.

3. The article number (or location) in the tax treaty that contains the saving clause and its exceptions.

4. The type and amount of income that qualifies for the exemption from tax.

5. Sufficient facts to justify the exemption from tax under the terms of the treaty article.

Example. Article 20 of the U.S.-China income tax treaty allows an exemption from tax for scholarship income received by a Chinese student temporarily present in the United States. Under U.S. law, this student will become a resident alien for tax purposes if his or her stay in the United States exceeds 5 calendar years. However, paragraph 2 of the first Protocol to the U.S.-China treaty (dated April 30, 1984) allows the provisions of Article 20 to continue to apply even after the Chinese student becomes a resident alien of the United States. A Chinese student who qualifies for this exception (under paragraph 2 of the first protocol) and is relying on this exception to claim an exemption from tax on his or her scholarship or fellowship income would attach to Form W-9 a statement that includes the information described above to support that exemption.

If you are a nonresident alien or a foreign entity, give the requester the appropriate completed Form W-8 or Form 8233.

Backup Withholding

What is backup withholding? Persons making certain payments to you must under certain conditions withhold and pay to the IRS 28% of such payments. This is called "backup withholding." Payments that may be subject to backup withholding include interest, tax-exempt interest, dividends, broker and barter exchange transactions, rents, royalties, nonemployee pay, payments made in settlement of payment card and third party network transactions, and certain payments from fishing boat operators. Real estate transactions are not subject to backup withholding.

You will not be subject to backup withholding on payments you receive if you give the requester your correct TIN, make the proper certifications, and report all your taxable interest and dividends on your tax return.

Payments you receive will be subject to backup withholding if:

1. You do not furnish your TIN to the requester,

2. You do not certify your TIN when required (see the Part II instructions on page 3 for details),

3. The IRS tells the requester that you furnished an incorrect TIN,

4. The IRS tells you that you are subject to backup withholding because you did not report all your interest and dividends on your tax return (for reportable interest and dividends only), or

5. You do not certify to the requester that you are not subject to backup withholding under 4 above (for reportable interest and dividend accounts opened after 1983 only).

Certain payees and payments are exempt from backup withholding. See *Exempt* payee code on page 3 and the separate Instructions for the Requester of Form W-9 for more information.

Also see Special rules for partnerships above.

What is FATCA reporting?

The Foreign Account Tax Compliance Act (FATCA) requires a participating foreign financial institution to report all United States account holders that are specified United States persons. Certain payees are exempt from FATCA reporting. See *Exemption from FATCA reporting code* on page 3 and the Instructions for the Requester of Form W-9 for more information.

Updating Your Information

You must provide updated information to any person to whom you claimed to be an exempt payee if you are no longer an exempt payee and anticipate receiving reportable payments in the future from this person. For example, you may need to provide updated information if you are a C corporation that elects to be an S corporation, or if you no longer are tax exempt. In addition, you must furnish a new Form W-9 if the name or TIN changes for the account; for example, if the grantor of a grantor trust dies.

Penalties

Failure to furnish TIN. If you fail to furnish your correct TIN to a requester, you are subject to a penalty of \$50 for each such failure unless your failure is due to reasonable cause and not to willful neglect.

Civil penalty for false information with respect to withholding. If you make a false statement with no reasonable basis that results in no backup withholding, you are subject to a \$500 penalty.

Criminal penalty for falsifying information. Willfully falsifying certifications or affirmations may subject you to criminal penalties including fines and/or imprisonment.

Misuse of TINs. If the requester discloses or uses TINs in violation of federal law, the requester may be subject to civil and criminal penalties.

Specific Instructions

Line 1

You must enter one of the following on this line; **do not** leave this line blank. The name should match the name on your tax return.

If this Form W-9 is for a joint account, list first, and then circle, the name of the person or entity whose number you entered in Part I of Form W-9.

a. **Individual.** Generally, enter the name shown on your tax return. If you have changed your last name without informing the Social Security Administration (SSA) of the name change, enter your first name, the last name as shown on your social security card, and your new last name.

Note. ITIN applicant: Enter your individual name as it was entered on your Form W-7 application, line 1a. This should also be the same as the name you entered on the Form 1040/1040A/1040EZ you filed with your application.

b. **Sole proprietor or single-member LLC.** Enter your individual name as shown on your 1040/1040A/1040EZ on line 1. You may enter your business, trade, or "doing business as" (DBA) name on line 2.

c. Partnership, LLC that is not a single-member LLC, C Corporation, or S Corporation. Enter the entity's name as shown on the entity's tax return on line 1 and any business, trade, or DBA name on line 2.

d. **Other entities.** Enter your name as shown on required U.S. federal tax documents on line 1. This name should match the name shown on the charter or other legal document creating the entity. You may enter any business, trade, or DBA name on line 2.

e. **Disregarded entity.** For U.S. federal tax purposes, an entity that is disregarded as an entity separate from its owner is treated as a "disregarded entity." See Regulations section 301.7701-2(c)(2)(ii). Enter the owner's name on line 1. The name of the entity entered on line 1 should never be a disregarded entity. The name on line 1 should be the name shown on the income tax return on which the income should be reported. For example, if a foreign LLC that is treated as a disregarded entity for U.S. federal tax purposes has a single owner that is a U.S. person, the U.S. owner's name is required to be provided on line 1. If the direct owner of the entity is also a disregarded entity, enter the first owner that is not disregarded for federal tax purposes. Enter the disregarded entity's name on line 2, "Business name/disregarded entity complete an appropriate Form W-8 instead of a Form W-9. This is the case even if the foreign person has a U.S. TIN.

Line 2

If you have a business name, trade name, DBA name, or disregarded entity name, you may enter it on line 2.

Line 3

Check the appropriate box in line 3 for the U.S. federal tax classification of the person whose name is entered on line 1. Check only one box in line 3.

Limited Liability Company (LLC). If the name on line 1 is an LLC treated as a partnership for U.S. federal tax purposes, check the "Limited Liability Company" box and enter "P" in the space provided. If the LLC has filed Form 8832 or 2553 to be taxed as a corporation, check the "Limited Liability Company" box and in the space provided enter "C" for C corporation or "S" for S corporation. If it is a single-member LLC that is a disregarded entity, do not check the "Limited Liability Company" box; instead check the first box in line 3 "Individual/sole proprietor or single-member LLC."

Line 4, Exemptions

If you are exempt from backup withholding and/or FATCA reporting, enter in the appropriate space in line 4 any code(s) that may apply to you.

Exempt payee code.

Generally, individuals (including sole proprietors) are not exempt from backup withholding.

• Except as provided below, corporations are exempt from backup withholding for certain payments, including interest and dividends.

• Corporations are not exempt from backup withholding for payments made in settlement of payment card or third party network transactions.

 Corporations are not exempt from backup withholding with respect to attorneys' fees or gross proceeds paid to attorneys, and corporations that provide medical or health care services are not exempt with respect to payments reportable on Form 1099-MISC.

The following codes identify payees that are exempt from backup withholding. Enter the appropriate code in the space in line 4.

1 - An organization exempt from tax under section 501(a), any IRA, or a custodial account under section 403(b)(7) if the account satisfies the requirements of section 401(f)(2)

2-The United States or any of its agencies or instrumentalities

3-A state, the District of Columbia, a U.S. commonwealth or possession, or any of their political subdivisions or instrumentalities

 $4-\!\mathrm{A}$ foreign government or any of its political subdivisions, agencies, or instrumentalities

5-A corporation

6-A dealer in securities or commodities required to register in the United States, the District of Columbia, or a U.S. commonwealth or possession

 $7{-}\mathrm{A}$ futures commission merchant registered with the Commodity Futures Trading Commission

8-A real estate investment trust

 $9-\mbox{An entity}$ registered at all times during the tax year under the Investment Company Act of 1940

10-A common trust fund operated by a bank under section 584(a)

11-A financial institution

 $12\mbox{--}A$ middleman known in the investment community as a nominee or custodian

13—A trust exempt from tax under section 664 or described in section 4947 The following chart shows types of payments that may be exempt from backup withholding. The chart applies to the exempt payees listed above, 1 through 13.

IF the payment is for	THEN the payment is exempt for
Interest and dividend payments	All exempt payees except for 7
Broker transactions	Exempt payees 1 through 4 and 6 through 11 and all C corporations. S corporations must not enter an exempt payee code because they are exempt only for sales of noncovered securities acquired prior to 2012.
Barter exchange transactions and patronage dividends	Exempt payees 1 through 4
Payments over \$600 required to be reported and direct sales over \$5,000 ¹	Generally, exempt payees 1 through 5 ²
Payments made in settlement of payment card or third party network transactions	Exempt payees 1 through 4

¹See Form 1099-MISC, Miscellaneous Income, and its instructions.

² However, the following payments made to a corporation and reportable on Form 1099-MISC are not exempt from backup withholding: medical and health care payments, attorneys' fees, gross proceeds paid to an attorney reportable under section 6045(f), and payments for services paid by a federal executive agency.

Exemption from FATCA reporting code. The following codes identify payees that are exempt from reporting under FATCA. These codes apply to persons submitting this form for accounts maintained outside of the United States by certain foreign financial institutions. Therefore, if you are only submitting this form for an account you hold in the United States, you may leave this field blank. Consult with the person requesting this form if you are uncertain if the financial institution is subject to these requirements. A requester may indicate that a code is not required by providing you with a Form W-9 with "Not Applicable" (or any similar indication) written or printed on the line for a FATCA exemption code.

A–An organization exempt from tax under section 501(a) or any individual retirement plan as defined in section 7701(a)(37)

B-The United States or any of its agencies or instrumentalities

C-A state, the District of Columbia, a U.S. commonwealth or possession, or any of their political subdivisions or instrumentalities

D-A corporation the stock of which is regularly traded on one or more established securities markets, as described in Regulations section 1.1472-1(c)(1)(i)

E-A corporation that is a member of the same expanded affiliated group as a corporation described in Regulations section 1.1472-1(c)(1)(i)

F-A dealer in securities, commodities, or derivative financial instruments (including notional principal contracts, futures, forwards, and options) that is registered as such under the laws of the United States or any state

G-A real estate investment trust

 $\rm H-A$ regulated investment company as defined in section 851 or an entity registered at all times during the tax year under the Investment Company Act of 1940

I-A common trust fund as defined in section 584(a)

J-A bank as defined in section 581

K-A broker

L-A trust exempt from tax under section 664 or described in section 4947(a)(1)

M-A tax exempt trust under a section 403(b) plan or section 457(g) plan

Note. You may wish to consult with the financial institution requesting this form to determine whether the FATCA code and/or exempt payee code should be completed.

Line 5

Enter your address (number, street, and apartment or suite number). This is where the requester of this Form W-9 will mail your information returns.

Line 6

Enter your city, state, and ZIP code.

Part I. Taxpayer Identification Number (TIN)

Enter your TIN in the appropriate box. If you are a resident alien and you do not have and are not eligible to get an SSN, your TIN is your IRS individual taxpayer identification number (ITIN). Enter it in the social security number box. If you do not have an ITIN, see *How to get a TIN* below.

If you are a sole proprietor and you have an EIN, you may enter either your SSN or EIN. However, the IRS prefers that you use your SSN.

If you are a single-member LLC that is disregarded as an entity separate from its owner (see *Limited Liability Company (LLC)* on this page), enter the owner's SSN (or EIN, if the owner has one). Do not enter the disregarded entity's EIN. If the LLC is classified as a corporation or partnership, enter the entity's EIN.

Note. See the chart on page 4 for further clarification of name and TIN combinations.

How to get a TIN. If you do not have a TIN, apply for one immediately. To apply for an SSN, get Form SS-5, Application for a Social Security Card, from your local SSA office or get this form online at *www.ssa.gov*. You may also get this form by calling 1-800-772-1213. Use Form W-7, Application for IRS Individual Taxpayer Identification Number, to apply for an TIN, or Form SS-4, Application for Employer Identification Number, to apply for an EIN. You can apply for an EIN online by accessing the IRS website at *www.irs.gov/businesses* and clicking on Employer Identification Number (EIN) under Starting a Business. You can get Forms W-7 and SS-4 from the IRS by visiting IRS.gov or by calling 1-800-TAX-FORM (1-800-829-3676).

If you are asked to complete Form W-9 but do not have a TIN, apply for a TIN and write "Applied For" in the space for the TIN, sign and date the form, and give it to the requester. For interest and dividend payments, and certain payments made with respect to readily tradable instruments, generally you will have 60 days to get a TIN and give it to the requester before you are subject to backup withholding on payments. The 60-day rule does not apply to other types of payments. You will be subject to backup withholding on all such payments until you provide your TIN to the requester.

Note. Entering "Applied For" means that you have already applied for a TIN or that you intend to apply for one soon.

Caution: A disregarded U.S. entity that has a foreign owner must use the appropriate Form W-8.

Part II. Certification

To establish to the withholding agent that you are a U.S. person, or resident alien, sign Form W-9. You may be requested to sign by the withholding agent even if items 1, 4, or 5 below indicate otherwise.

For a joint account, only the person whose TIN is shown in Part I should sign (when required). In the case of a disregarded entity, the person identified on line 1 must sign. Exempt payees, see Exempt payee code earlier.

Signature requirements. Complete the certification as indicated in items 1 through 5 below

1. Interest, dividend, and barter exchange accounts opened before 1984 and broker accounts considered active during 1983. You must give your correct TIN, but you do not have to sign the certification.

2. Interest, dividend, broker, and barter exchange accounts opened after 1983 and broker accounts considered inactive during 1983. You must sign the certification or backup withholding will apply. If you are subject to backup withholding and you are merely providing your correct TIN to the requester, you must cross out item 2 in the certification before signing the form.

3. Real estate transactions. You must sign the certification. You may cross out item 2 of the certification.

4. Other payments. You must give your correct TIN, but you do not have to sign the certification unless you have been notified that you have previously given an incorrect TIN. "Other payments" include payments made in the course of the requester's trade or business for rents, royalties, goods (other than bills for merchandise), medical and health care services (including payments to corporations), payments to a nonemployee for services, payments made in settlement of payment card and third party network transactions, payments to certain fishing boat crew members and fishermen, and gross proceeds paid to attorneys (including payments to corporations).

5. Mortgage interest paid by you, acquisition or abandonment of secured property, cancellation of debt, qualified tuition program payments (under section 529), IRA, Coverdell ESA, Archer MSA or HSA contributions or distributions, and pension distributions. You must give your correct TIN, but you do not have to sign the certification.

What Name and Number To Give the Requester

For this type of account:	Give name and SSN of:
1. Individual 2. Two or more individuals (joint account)	The individual The actual owner of the account or, if combined funds, the first individual on the account'
 Custodian account of a minor (Uniform Gift to Minors Act) 	The minor ²
 a. The usual revocable savings trust (grantor is also trustee) b. So-called trust account that is not a legal or valid trust under state law 	The grantor-trustee' The actual owner'
 Sole proprietorship or disregarded entity owned by an individual 	The owner ³
6. Grantor trust filing under Optional Form 1099 Filing Method 1 (see Regulations section 1.671-4(b)(2)(i) (A))	The grantor*
For this type of account:	Give name and EIN of:
 Disregarded entity not owned by an individual 	The owner
8. A valid trust, estate, or pension trust	Legal entity⁴
9. Corporation or LLC electing corporate status on Form 8832 or Form 2553	The corporation
10. Association, club, religious, charitable, educational, or other tax- exempt organization	The organization
11. Partnership or multi-member LLC	The partnership
12. A broker or registered nominee	The broker or nominee
13. Account with the Department of Agriculture in the name of a public entity (such as a state or local government, school district, or prison) that receives agricultural program payments	The public entity
14. Grantor trust filing under the Form 1041 Filing Method or the Optional Form 1099 Filing Method 2 (see Regulations section 1.671-4(b)(2)(i) (B))	The trust

List first and circle the name of the person whose number you furnish. If only one person on a joint account has an SSN, that person's number must be furnished.

Circle the minor's name and furnish the minor's SSN.

³ You must show your individual name and you may also enter your business or DBA name on the "Business name/disregarded entity" name line. You may use either your SSN or EIN (if you have one), but the IRS encourages you to use your SSN.

⁴ List first and circle the name of the trust, estate, or pension trust. (Do not furnish the TIN of the personal representative or trustee unless the legal entity itself is not designated in the account title.) Also see Special rules for partnerships on page 2. *Note. Grantor also must provide a Form W-9 to trustee of trust.

Note. If no name is circled when more than one name is listed, the number will be considered to be that of the first name listed.

Secure Your Tax Records from Identity Theft

Identity theft occurs when someone uses your personal information such as your name, SSN, or other identifying information, without your permission, to commit fraud or other crimes. An identity thief may use your SSN to get a job or may file a tax return using your SSN to receive a refund.

To reduce your risk:

- · Protect your SSN,
- Ensure your employer is protecting your SSN, and
- Be careful when choosing a tax preparer.

If your tax records are affected by identity theft and you receive a notice from the IRS, respond right away to the name and phone number printed on the IRS notice or letter.

If your tax records are not currently affected by identity theft but you think you are at risk due to a lost or stolen purse or wallet, questionable credit card activity or credit report, contact the IRS Identity Theft Hotline at 1-800-908-4490 or submit Form 14039

For more information, see Publication 4535, Identity Theft Prevention and Victim Assistance

Victims of identity theft who are experiencing economic harm or a system problem, or are seeking help in resolving tax problems that have not been resolved through normal channels, may be eligible for Taxpayer Advocate Service (TAS) assistance. You can reach TAS by calling the TAS toll-free case intake line at 1-877-777-4778 or TTY/TDD 1-800-829-4059

Protect yourself from suspicious emails or phishing schemes. Phishing is the creation and use of email and websites designed to mimic legitimate business emails and websites. The most common act is sending an email to a user falsely claiming to be an established legitimate enterprise in an attempt to scam the user into surrendering private information that will be used for identity theft.

The IRS does not initiate contacts with taxpayers via emails. Also, the IRS does not request personal detailed information through email or ask taxpayers for the PIN numbers, passwords, or similar secret access information for their credit card, bank, or other financial accounts.

If you receive an unsolicited email claiming to be from the IRS, forward this message to phishing@irs.gov. You may also report misuse of the IRS name, logo, or other IRS property to the Treasury Inspector General for Tax Administration (TIGTA) at 1-800-366-4484. You can forward suspicious emails to the Federal Trade Commission at: *spam@uce.gov* or contact them at *www.ftc.gov/idtheft* or 1-877-IDTHEFT (1-877-438-4338).

Visit IRS.gov to learn more about identity theft and how to reduce your risk.

Privacy Act Notice

Section 6109 of the Internal Revenue Code requires you to provide your correct TIN to persons (including federal agencies) who are required to file information returns with the IRS to report interest, dividends, or certain other income paid to you; mortgage interest you paid; the acquisition or abandonment of secured property; the cancellation of debt; or contributions you made to an IRA, Archer MSA, or HSA. The person collecting this form uses the information on the form to file information returns with the IRS, reporting the above information. Routine uses of this information include giving it to the Department of Justice for civil and criminal litigation and to cities, states, the District of Columbia, and U.S. commonwealths and possessions for use in administering their laws. The information also may be disclosed to other countries under a treaty, to federal and state agencies to enforce civil and criminal laws, or to federal law enforcement and intelligence agencies to combat terrorism. You must provide your TIN whether or not you are required to file a tax return. Under section 3406, payers must generally withhold a percentage of taxable interest, dividend, and certain other payments to a payee who does not give a TIN to the payer. Certain penalties may also apply for providing false or fraudulent information.

Downspout Disconnection - Rebate Claim Form





Name:
Phone:
Email:
Project Address:
Mailing Address (if different):

Project Information

Downspout #1	Downspout #2		
Downspout ID (from site report):	Downspout ID (from site report):		
Contributing roof area: square feet	Contributing roof area: square feet		
How is the water from the downspout(s)	How is the water from the downspout(s)		
dispersed?	dispersed?		
Splash block Rock pad	□ Splash block □ Rock pad		
Where does runoff flow?	Where does runoff flow?		

Required Supporting Documents

- Before and after disconnection picture(s) of the downspout(s)
- □ Receipts and proof of payment (credit card receipts, canceled checks) for supplies

Complete and sign this Statement of Understanding. Unsigned forms will not be processed.

,, have completed this form accurately to the
best of my ability. Upon completing the Project Rebate Form, I will agree to maintain my project
or 5 years, and give the City of Kirkland permission to access and assess my project(s) for that
luration.

Signature	Date			
OFFICE USE ONLY				
Date rebate form & attachments received		_		
Date disconnection verified	_ D	ate check mailed	1	
Total rebate amount	\$			

Tree Planting - Rebate Cover Sheet



Basic Information

Name:
Phone:
Email:
Project Address:
Mailing Address (if different):

Project Information

Number of Trees Planted _____

Details

Required Supporting Documents

- □ Maintenance Agreement
- □ W-9
- □ Photo(s) of planted tree(s)
- Receipts and proof of payment (credit card receipts, canceled checks) for mulch and each tree purchased
- □ Photo of Nursery tags

Date rebate form & attachments received _____

Date tree planting verified_____

Date check mailed _____

Rebate eligible tree costs	
Rebate eligible compost/mulch costs	
Total rebate amount	\$