

Be RainWise rebates for rain gardens & cisterns



Seattle
Public
Utilities

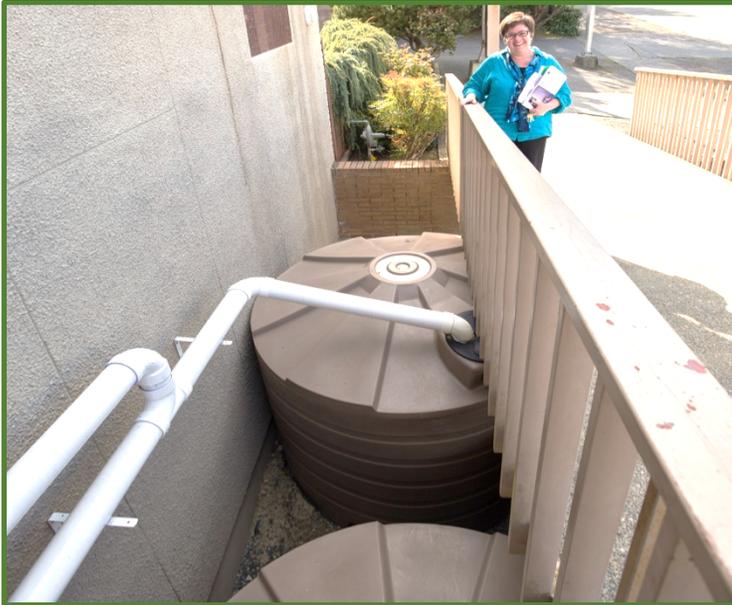


King County

Big Roof Case Study

Our Lady of Guadalupe

7000 35th Ave SW



Our Lady of Guadalupe principal, Donna Ramos, stands proudly above the three cisterns covered by the RainWise rebate program.



Rain Dog Designs installed a “vertical” rain garden in a planter box to capture water flow from the cisterns.

Contractor:
Rain Dog Designs



Three
cisterns



One rain
garden



4,760 ft² of
roof captured



\$16,374.40
rebated



Completed
in 2016

Project Summary

Located in the High Point/Delridge neighborhood of West Seattle, Our Lady of Guadalupe (OLG)'s RainWise installation represents a success story of multi-stakeholder collaboration towards managing rainwater runoff from 4,760 square feet of flat roof area. The project

- generates substantial water storage for summer landscape irrigation,
- provides detention and infiltration of the existing roof area,
- protects Puget Sound from combined sewer system overflows, and
- created an elevated or “vertical” rain garden in an existing planter box – which was inspired by existing stormwater code for new developments, a first for RainWise.

The project was completed in 2016, with a total of \$16,374.40 covered by the RainWise rebate program.

For more information, please visit: rainwise.seattle.gov

Alternative Formats Available—Call 206-633-0224 or TTY:711

Our Lady of Guadalupe

Project Specifications

The entire roof drains into three 1,320 gallon cisterns. Two cisterns overflow into the “vertical” rain garden and the other cistern overflows into a buried pipe, then out to a tree planter area.

This “vertical” rain garden allows water to collect via roof, but instead of a shallow depression in the ground, contractors placed the spongy soil and plants above ground in an existing planter box. Rain Dog Designs got pre-approval for this installation and Our Lady of Guadalupe is the first to use this option within the RainWise program.

While not appropriate at all sites, this innovation is an example of contractors working together with their clients and RainWise to allow rebates at complex sites.



One cistern flows into this square planter area while the other two flow into the “vertical” rain garden.



Cisterns under ramp.



Elevated rain garden, before and after.

Environmental Stewardship & Stakeholder Collaboration

Project partners include church leadership, King County staff, RainWise outreach staff and the creative design talents of the RainWise contractor, Rain Dog Designs. All stakeholders worked together to keep thousands of gallons of rainwater out of the sewer system each year.

The project connected the Peace Lutheran GreenTeam, who previously participated in the RainWise rebate program, with OLG leadership to kick start the project. Even the Catholic Archdiocese of Seattle took notice and is sharing OLG’s success story with other Catholic schools and churches. The collaboration continues, with Our Lady of Guadalupe Catholic School developing a RainWise curriculum for science students to learn about the system on their property.

About RainWise

RainWise is a joint program between Seattle Public Utilities and King County Wastewater Treatment Division that provides rebates for rain gardens and cisterns to private property owners in eligible areas. Rain gardens and cisterns help control stormwater, reducing sewer overflows and the erosion of hillsides and stream banks. We’ll help you determine if your property qualifies.

For more information, please visit: rainwise.seattle.gov



Case study completed by Urban Systems Design. Contact us at 206-678-2604 or email at Sonja.rainwise@gmail.com.