# SEATTLE GREEN INFRASTRUCTUR



#### CASE STUDY SERIES

# Barton Combined Sewer Overflow(CSO) Control2017

30th Ave SW and 34th Ave SW in West Seattle

#### **PERFORMANCE SNAPSHOT**

- King County's largest Green Stormwater Infrastructure (GSI) project; catches stormwater from 20.2 acres over a 15 block area.
- First project to use Underground Injection Control wells (UIC) for CSO control in the region. UIC wells infiltrate treated stormwater through the less permeable glacial till soil layer.

## GREEN INFRASTRUCTURE TECHNOLOGY TYPES



# **INNOVATION HIGHLIGHTS**



King County Wastewater Treatment Division worked extensively with local and state permitting agencies to set a precedent for the use of UIC wells for CSO control in Western Washington, helping pave the way for similar systems to be employed throughout the Pacific Northwest.



King County installed 91 roadside rain gardens on 15 blocks in the Sunrise Heights and Westwood neighborhoods. Bioretention designs were chosen for multiple benefits beyond stormwater control such as beauty, green space, and pollinator habitat.



King County engaged with neighbors on the street in front of their homes to discuss how the project would change the neighborhood. Team members went back to those same neighbors later to show how their wishes and concerns were incorporated.

The roadside rain gardens in this neighborhood add beauty, green space and generally help the street work more like a forest







## **PROJECT DETAILS**

IMPERVIOUS SURFACE MANAGED	20.2 acres or 879,912 sq. ft.
DRIVER	CSO Regulatory Requirements
OWNER	King County Wastewater Treatment Division (KCWTD)
FUNDER	KCWTD and Washington Department of Ecology
GREEN INFRASTRUCTURE COST	\$17,488,667
PROJECT TEAM	Goodfellow Bros, Inc. T Yorozu Gardening Co. Inc. MIG/SVR Inc. Aspect Consulting Stantec Consulting Service, Inc. Associated Earth Sciences
MAINTAINED BY	KCWTD
MORE INFORMATION	

http://www.kingcounty.gov/depts/dnrp/wtd/capital-projects/completed/barton-cso-gsi.aspx

