

# SEATTLE GREEN INFRASTRUCTURE INNOVATION

## CASE STUDY SERIES



## Murray Combined Sewer Overflow (CSO) Control

2017

7018 Beach Dr. SW Seattle 98138



## PERFORMANCE SNAPSHOT

- 1 million gallon Combined Sewer Overflow tank manages stormwater from 0.5 acres of adjacent roadway.
- Enforces multiple benefits of Green Stormwater Infrastructure (GSI), doubling as a public access green space and an art display.

## GREEN INFRASTRUCTURE TECHNOLOGY TYPES



Green Roof



Biofiltration



Permeable Paving

## INNOVATION HIGHLIGHTS



Design  
Innovation

The Murray CSO Control project exemplifies how GSI can be incorporated into traditional gray infrastructure. The site features a green roof, permeable paving, a bioswale, and two Filterra tree filter boxes, which collectively manage stormwater from 0.5 acres adjacent to the facility.



Community  
Engagement

Early in the design process, King County formed a Design Advisory Group of local community members whose suggestions led to the site's increased green space, traffic calming strategies, and a clear view of the Olympic Mountains and Puget Sound.



Public Art

Working with the Design Advisory Group, a local artist was hired by King County's 4Culture art program to design a Mountains-to-Sound theme for the site, incorporating different types of stone and rammed earth installations.





*Incorporating GSI results in a site with more green space, native vegetation and art that tells the story of water's path through nature*



*The Murray Community Design Advisory Group's vision drove the design of the facility*

## PROJECT DETAILS

IMPERVIOUS SURFACE MANAGED	20,849 sq. ft.
DRIVER	CSO Regulatory Requirements
OWNER	King County Wastewater Treatment Division (KCWTD)
FUNDER	KCWTD and Washington Department of Ecology
GREEN INFRASTRUCTURE COST	\$260,000
PROJECT TEAM	Murray Community Design Advisory Group, HDR Engineering, Inc., Roberts Engineering, Shannon & Wilson, EnviroIssues, SSA Acoustics, Historical Research Associates, Shimmick Construction Co., Purcell P & C, Griffin, Clear Creek Systems, Triangle Associates, Inc., Robert Homer
MAINTAINED BY	KCWTD

## MORE INFORMATION

<http://www.kingcounty.gov/depts/dnrp/wtd/capital-projects/completed/murray-cso-control.aspx>

