Stormwater Management Projects Overview

This packet describes the scope and status of the Sewer System Improvement Program’s (SSIP) eight Early Implementation Stormwater Management Projects. The eight demonstration projects in each one of San Francisco’s urban watersheds were developed to assist the SFPUC in evaluating the performance of various green technologies in removing stormwater from the City’s combined sewer system. The lessons learned from their implementation will also help streamline project planning, design, and construction processes for future green infrastructure projects.
**Project Description**

This project will help manage stormwater and reduce combined sewer discharges in the area around Baker Beach. This project has two areas of focus: along El Camino Del Mar between 32nd and 34th Avenues, and along Sea Cliff Ave between 25th and 26th Avenues. There’s also a terraced rain garden on Golden Gate National Recreation Area (GGNRA) property at the side entrance to Baker Beach.

In addition to managing stormwater at Baker Beach, rain gardens will help to improve pedestrian visibility and safety. This project is in cooperation with San Francisco Recreation and Park and Golden Gate National Recreation Area.

**Richmond Watershed**

**Districts 1 & 2**

**Drainage Management Area**
17.2 Acres

**Performance (expected)**
3.4 MG Removed Annually (system to be monitored)

**Cost**
$12M

**Status**
Bid & Award

**Stormwater Management Features**
- Rain Gardens
- Permeable Concrete
- Bioretention Planters
- Subsurface Infiltration Galleries

**Community Features**
- New Pedestrian Crossings
- Improved Park Entrance Aesthetics
- Improved Bicycle Route

**Project Timeline**

|------|------|------|------|------|------|------|------|------|

Funding for this project has been provided in full or in part through an agreement with the State Water Resources Control Board using funds from Proposition 50. The contents of this document do not necessarily reflect the views and policies of the foregoing, nor does mention of trade names or commercial products constitute endorsement or recommendation for use.
Project Description

This project is a partnership between the SFPUC and SF Public Works (SFPW) as part of the Better Streets Program. This project features innovative green infrastructure technologies on Spofford Alley in the City’s historic Chinatown neighborhood.

This project includes rain gardens and streetscape features to naturally capture stormwater runoff before it enters the sewer system.
Project Description

This project creates a welcoming and vibrant green street allowing community members to better utilize common areas and manage local stormwater. This project is located on Holloway Avenue between Ashton and Lee Avenues.

The use of vegetated rain gardens and permeable pavement in parking lanes beautifies and amends the street visually, making it safer and more welcoming for pedestrians and bicycles.

Holloway Green Street is also the first SSIP project to receive State Revolving Loan funding which, helped to reduce the financial impact on ratepayers.

Lake Merced Watershed

District 7

Drainage Management Area

2.1 Acres

Performance (expected)

1.0 MG Removed Annually (system to be monitored)

Cost

$7.3M

Status

Complete

Stormwater Management Features

• Bioretention Planters
• Permeable Pavement

Community Features

• Reduced Pedestrian Crossing Distances
• New Street Trees
• Improved Aesthetics

Project Timeline

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COMPLETED PROJECT

Bioretention planters on Holloway Avenue
Project Description

This project creates a welcoming community-focused entryway to "The Mission" with the benefit of managing stormwater locally through infiltration. This project is located on Valencia Street between Cesar Chavez and Mission Streets; as well as adjacent portions of Duncan Street, Tiffany Avenue, and Mission Street.

The project includes: a new plaza area at the corner of Valencia and Mission Street; streetscape improvements, improved bicycle routes, and pedestrian access across the project area.

Isilais Creek Watershed

District 8

Drainage Management Area
1.4 Acres

Performance (expected)
0.75 MG Removed Annually
(system to be monitored)

Cost
$4.9M

Status
Complete

Stormwater Management Features
• Bioretention Planters
• Subsurface Infiltration Gallery

Community Features
• New Community Plaza
• Reduced Pedestrian Crossing Distances
• Improved Bicycle Routing
• Improved Bus Stop Alignment

Project Timeline

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Project Description

This project features rain garden design concepts that reflect the natural topography and soil conditions of Sunset Boulevard, which are incredibly supportive of stormwater infiltration, and will improve stormwater management for 19 acres of paved surfaces in the Sunset District.

Another exciting feature is the Learning Lab that is being designed to provide an educational setting on a variety of water and environmental subjects including stormwater and the hydrologic cycle, conservation, ecology, biology, native plants, and native plants. Local schools are helping us program this Learning Lab and create related curriculum.

Sunset Watershed

District 4

Drainage Management Area
19 Acres

Performance (expected)
4.9 MG Removed Annually
(system to be monitored)

Cost
$8.4M

Status
Pilot Block: Complete
Phase 1: Complete
Phase 2: Design

Stormwater Management Features
• Rain Gardens
• Enhanced Habitat
• Educational Signage

Community Features
• Learning Lab

Project Timeline

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Pilot Block / Phase 1

New bioretention rain gardens manage stormwater

Enhanced habitat for local plants and wildlife
Project Description

This project will restore the historic Yosemite Creek to manage flows from 110 acres of McLaren Park. The creek will flow along the northern edge of McLaren Park from Yosemite marsh through Louis Sutter Playground and along the southern edge of University Mound Reservoir.

This project is the first creek daylighting project initiated by the City and will reintroduce natural habitat and provide opportunities for community learning and beautification.

The project team is working closely with San Francisco Recreation and Park to integrate the creek into existing park uses.

Yosemite Watershed

Districts 9 & 10

Drainage Management Area
110 Acres

Performance (expected)
7.3 MG Removed Annually (system to be monitored)

Cost
$12.8M

Status
Planning

Stormwater Management Features

• Creek
• Rain Gardens
• Subsurface Storage & Reuse

Community Features

• Improved Pedestrian Crossings
• Improved Athletic Field Drainage
• New Sidewalk
• Community Oriented Plaza

Project Timeline

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*Construction ends 2022; Plant establishment until 2024
Project Description

This project features two locations that improve community spaces, accessibility, and manage stormwater. The locations include a mini-plaza at Sunnydale Ave. and Rutland St. and a terraced rain garden at the end of Leland Ave. in McLaren Park.

The rain gardens manage stormwater from 18 acres of parkland and Visitacion Ave. and provide a pedestrian connection to McLaren Park from Leland Ave. We worked with SF Rec & Park and adjacent Community Garden in McLaren Park.

The mini-plaza construction will be coordinated with the planned Rutland sewer main replacement project.

Sunnydale Watershed

District 10

Drainage Management Area

1.8 Acres

Performance (expected)

0.8 MG Removed Annually (system to be monitored)

Cost

$4.9M

Status

Complete

Stormwater Management Features

• Bioretention Planters

Community Features

• Reduced Pedestrian Crossing Distances
• Improved Community Garden Entrance

Project Timeline

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*Plant establishment until end of 2021
Project Description

This project is a partnership of the SFPUC and San Francisco Municipal Transportation Agency (SFMTA), located along the iconic “Wiggle” bicycle route and the Lower Haight, Alamo Square, and Duboce Park neighborhoods.

This project will feature innovative green infrastructure technologies to: improve stormwater management, reduce localized flooding, and enhance safety for pedestrians and bicyclists by traffic calming.

Channel Watershed

District 5

Drainage Management Area
2.1 Acres

Performance (expected)
0.8 MG Removed Annually (system to be monitored)

Cost
$4.6M

Status
Phase 1 - Complete
Phase 2 - Complete

Stormwater Management Features

• Bioretention Planters
• Permeable Pavement

Community Features

• Improved Pedestrian Crossings
• Improved Traffic Visibility

Project Timeline

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BEFORE

Minimal pedestrian safety on street corners Fell and Divisadero St

COMPLETED PROJECT

Green infrastructure creates a sense of place to complement the highly popular bicycle route and neighborhood

December 2018