

SSIP PROGRAM EXECUTIVE SUMMARY

PHASE 1 | QUARTER FOUR
(OCTOBER - DECEMBER 2014)

Photo: Southeast Plant (SEP) Headworks



San Francisco
Water
Power
Sewer

Services of the San Francisco
Public Utilities Commission

SEWER SYSTEM

IMPROVEMENT PROGRAM
Grey. Green. Clean.

COMMUNICATIONS

In the News

- KTVU aired a segment titled “San Francisco tries to eliminate toxic runoff with green infrastructure.”
- ABC7 aired a segment on the planned upgrades for the Biosolids Digester Facilities and SEP Headworks projects.
- Potrero View published a story detailing the upgrades at the Southeast Plant.



Karen Kubick, SSIP Director, discussed San Francisco's wastewater and stormwater needs during a PODCAST on Sewer Infrastructure: Water Online – San Francisco's Water Priorities.

- Community non-profit partner BAYCAT produced a video featuring 12th grade students from John O'Connell High School on wastewater treatment facilities tours.

490,327

IMPRESSIONS

Includes social media outlets (Facebook, Twitter, and Instagram), MetroQuest surveys (CBSIP), SSIP related web page hits, treatment plant tours, and community meeting attendees from October to December 2014. The number of impressions has more than doubled as compared to the previous quarter.

Outreach

- The Contractors Assistance Center began its effort, with Clark Construction Group, to train 20 small business owners in construction management and business skills.
- The Southeast Working Group convened three meetings to discuss the SEP Headworks project, the Bayside Urban Watershed Assessment (UWA), and the CEQA environmental justice processes.



Staff participated in the WEFTEC Community Service project to build green infrastructure in the Hollygrove neighborhood of New Orleans.

KEY ACCOMPLISHMENTS

QUARTER FOUR | OCTOBER - DECEMBER 2014

Programmatic

- Developed outline for SSIP Annual Report
- Presented lessons learned to Revenue Board Oversight Committee (RBOC)
- Conducted training on Alternative Project Delivery by DBIA (Design-Build Institute of America)
- Organized multiple public meetings for Southeast Community via Southeast Working Group (SEWG)

Southeast Plant (SEP) Integration

- Completed initial analysis of existing and future electrical demands
- Established the structure and participants of a Site Management Committee (SMC)

Southeast Plant (SEP)

- Headworks project issued NTP for professional services contract to Carollo Engineers Inc.
- Received bids for Structural Engineering Services for the Seismic Upgrade of the Southeast Plant
- Completed design of Primary Sludge Handling Improvements

Biosolids Digester Facilities Project (BDFP)

- Completed and issued Alternative Analysis Report (AAR) for review by stakeholders
- Presented status updates to SEWG and CAC

North Point Facility (NPF)

- Completed Conceptual Engineering Report (CER) for NPF Outfall System Rehabilitation project
- Completed AAR for Wet Weather Pump Station project

Oceanside Plant (OSP)

- Completed CER for OSP Digester Gas Utilization project
- Completed draft AAR for Fine Screens and Grit Enhancements Removal project
- Received bids for Engineering Design Services contract

Central Bayside System Improvement Project (CBSIP)

- Completed draft AAR and Technical Memorandums (TMs) for three (3) pump stations, tunnel alignment, and watershed project alternatives

Green Infrastructure (GI) Early Implementation Projects (EIP)

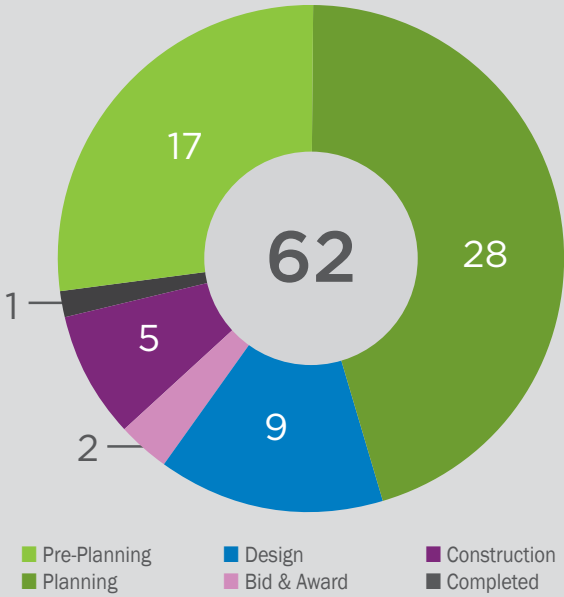
- Completed 100% design of Mission & Valencia Green Gateway/Islais Creek GI
- Developed alternative creek alignments during CER for Upper Yosemite Creek Daylighting/Yosemite GI

Urban Watershed Assessment (UWA)

- Finalized draft report identifying alternative suite of projects for Bayside watersheds
- Initiated development of Westside watershed project opportunities

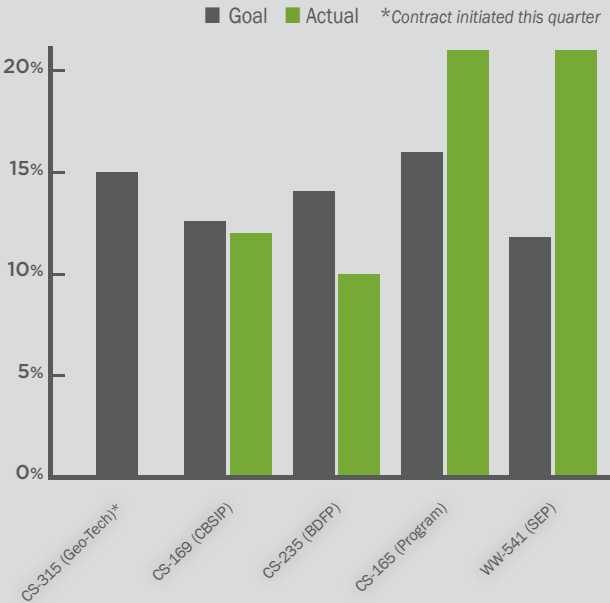
PHASE 1 METRICS | As of December 2014

Project Count by Phase



LBE Participation By Contract

LBE participation percentages are based on expended amounts and not total contract amount



Upcoming Contracts

- As-Needed Project Controls Services, February 2015
- Construction contracts:
 - SEP Primary Sludge Thickening Improvements, January 2015
 - Holloway Green Street/Lake Merced GI, March 2015
 - Mission & Valencia Green Gateway/Islais Creek GI, March 2015

SSIP PHASE 1 SCHEDULE & COST | Status as of the WWE Quarterly Report from October to December 2014

Activity ID	Forecast Total Cost Dec 2014	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Southeast Plant	\$564,735,962										
SEP Existing Infrastructure Repairs	\$222,197,332										
SEP Oxygen Generation Plant	\$13,000,015										
SEP Oxygen Generation Plant 01	\$6,000,000										
SEP Existing Digester Roof Repairs	\$27,194,737										
SEP Primary Sludge Handling Improvements	\$20,864,695										
SEP Seismic Reliability and Condition Assessment Improvements	\$58,102,197										
SEP Existing Digester Gas Handling Improvements	\$27,194,738										
SEP Power Feed and Primary Switchgear Upgrades	\$69,840,950										
Primary Treatment	\$32,308,985										
SEP Primary and Secondary Clarifier Upgrades	\$32,308,985										
Secondary Treatment	\$32,088,516										
SEP 521/522 and Disinfection Upgrades (SEP Building 521 Replacement)	\$32,088,516										
* Primary Treatment Improvements	\$30,268,069										
DCS Control System	\$62,987,772										
SEP Facility-wide DCS Control Upgrades	\$62,987,772										
SEP New Headworks	\$184,885,288										
SEP New Headworks (Grit) Replacement	\$184,885,288										
Biosolids Digester Facilities Project	\$1,186,308,160										
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Treatment Plant Improvements	\$296,515,918										
North Point Facility (NPF)	\$113,127,786										
NPF Outfall System Rehabilitation	\$29,973,213										
North Shore Wet Weather Pump Station Improvement and Disinfection	\$66,610,914										
NPF Clarifier Improvements	\$16,543,659										
Oceanside Water Pollution Control Facility (OSP)	\$77,283,161										
OSP Fine Screen and Grit Removal Enhancements	\$3,695,617										
OSP Digester Gas Utilization Upgrade	\$48,233,856										
OSP Condition Assessment Repairs	\$15,712,082										
OSP Odor Control Optimization	\$4,724,858										
OSP Oxygen/Aeration System Replacement	\$4,916,748										
Westside Pump Station and Force Main	\$106,104,971										
Westside Pump Station Reliability Improvements	\$68,257,496										
Westside Pump Station Redundant Force Main Improvements	\$37,847,475										
Central Bayside System Improvement Project	\$70,000,000										
Central Bayside System Improvement Project (CBSIP)	\$70,000,000										
Stormwater Management	\$88,864,918										
Early Implementation Projects	\$64,685,272										
Islais Creek Green Infrastructure	\$5,355,000										
Sunset Green Infrastructure	\$16,329,339										
North Shore Green Infrastructure	\$2,068,999										
Lake Merced Green Infrastructure	\$6,699,001										
Sunnydale Green Infrastructure	\$3,063,501										
Richmond Green Infrastructure	\$7,126,001										
Yosemite Green Infrastructure	\$13,574,258										
17th and Folsom Wet Weather Storage	\$812,352										
Channel Green Infrastructure	\$3,656,821										
Watershed Stormwater Management	\$6,000,000										
* Advanced Rainfall Prediction System	\$24,179,645										
Collection System Reliability and Operational Improvements	\$252,952,257										
* Interceptors/Large Sewers/Tunnels/Odor Control	\$71,764,114										
* Collection Systems/Interdepartmental Projects	\$47,447,350										
* T/S Boxes and CSD Structures	\$81,729,315										
* Pump Stations and Forcemain Improvements	\$52,011,478										
Program Management	\$252,751,958										
Phase 1 Program Management	\$130,000,000										
* Land Reuse	\$122,751,958										

First phase of construction is Grit Removal Pilot Study

* Represents multiple projects ■ Bid & Award ■ Construction ■ Pre & Post Project Construction Phases ■ January - December 2015

Expenditures as of December 2014

Expended
\$0.116B

Remaining
\$2.596B



Completion as of December 2014

4.3% PHASE 1 PROJECTS

0%

100%

PROJECTS IN CONSTRUCTION



Excavation and forming for planters, Wiggle Neighborhood Green Corridor, Phase 1 - Oak & Fell Streets/Channel GI



Welding rooftop panels on Digester #7, Southeast Plant (SEP)



Captured grit from existing removal unit vs. captured grit from pilot removal unit

LOOKING AHEAD

QUARTER ONE | JANUARY - MARCH 2015

Programmatic

- Complete development of subcontracting opportunities for LBEs
- Obtain SFPUC approval for Clean Water State Revolving Fund Program (CWSRF) financing option
- Initiate Southeast Design Vision workshops process

Southeast Plant (SEP) Integration

- Initiate Site Management Committee to review laydown requirements for multiple SSIP projects
- Complete analysis of staging area requirements for projects

Southeast Plant (SEP)

- Headworks project to complete AAR and initiate development of Conceptual Engineering Report (CER)
- Complete design of SEP 521/522 and Disinfection Upgrades project
- Evaluate proposals and select consultant for Structural Engineering Services for the Seismic Upgrade of the Southeast Plant

Biosolids Digester Facilities Project (BDFP)

- Initiate development of CER and begin environmental review process

North Point Facility (NPF)

- Complete 35% design of NPF Outfall System Rehabilitation project
- Complete CER for Northshore Wet Weather Pump Station project

Oceanside Plant (OSP)

- Award of Engineering Design Services contract to Carollo/Lee JV and MWH
- Complete AAR for Westside Pump Station projects

Central Bayside System Improvement Project (CBSIP)

- Complete AAR by end of March 2015

Green Infrastructure (GI) Early Implementation Projects (EIP)

- Finalize alignment for Upper Yosemite Creek Daylighting/Yosemite GI
- Complete 35% design of Chinatown Green Alleys/North Shore GI and Baker Beach Green Street/Richmond GI

Urban Watershed Assessment (UWA)

- Finalize Bayside watershed project alternatives
- Initiate Westside watershed project alternatives



San Francisco
Water Power Sewer
Services of the San Francisco Public Utilities Commission

For more information, visit: sfwater.org/ssip

