Sewer System Improvement Program (SSIP)

13th Annual Construction Contractors’ Breakfast

Howard Fung, Wastewater Enterprise Capital Program Director
Some of Our Priority Challenges

- Aging Infrastructure
- Seismic Safety
- Operational Reliability
- Climate Change
Sewer System Improvement Program (SSIP)

Grey.

Green.

Clean.

SYSTEM AND SEISMIC RELIABILITY & REDUNDANCY

INNOVATIVE STORMWATER MANAGEMENT SOLUTIONS

PROTECTING PUBLIC HEALTH & THE ENVIRONMENT
SSIP Phase 1 Projects | $2.9 Billion

- Treatment Plants
- Central Bayside System Improvement Project
- Green Infrastructure & Stormwater Management Projects
- Large Sewers, Tunnels, and Odor Control
- Pump Stations and Force Main Improvements
- Flood Resilience Projects
- Combined Sewer Discharge Structures & Transport/Storage Boxes
- Interdepartmental Projects
Program Status (as of March 2019)

Project Count by Phase

- Planning $166M (8 Projects)
- Design $1,659M (12 Projects)
- Construction $687M (14 Projects)
- Bid & Award $167M (6 Projects)
- Phase 1 $2,979B (70 Projects)

Completed $160M (22 Projects)
Close-out $140M (8 Projects)

Expenditures

- Expended $0.781B
- Remaining $2.198

Phase 1 Progress Made Since Last Year

March 2018

- Planning - Design: 49
- Close-out - Completion: 6
- Bid & Award - Construction: 15

22% Complete

March 2019

- Planning - Design: 30
- Close-out - Completion: 20
- Bid & Award - Construction: 20

30.6% Complete
Recently Completed Projects

- Visitacion Valley Green Nodes
- Chinatown Living Alley
- Mission & Valencia Streets Green Gateway
- Rutland Sewer Improvements
- Drumm and Jackson Streets Sewer System Improvements
- SEP Primary and Secondary Clarifier Upgrades
- North Point Outfall Rehabilitation
Force Main at Embarcadero and Jackson Streets

Contract Value: $5.5M

Forecasted Advertisement: Summer 2019

Objective:
• Provide complete redundancy for the portion of North Shore Force Main

Scope:
• Rehabilitate approximately 240 LF of the North Shore Force Main; and related work on The Embarcadero, between Washington and Broadway Streets

Project Timeline:

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Current Project Location
Kansas and Marin Streets Sewer Improvements

*Contract Value:* $14M

*Forecasted RFQ Advertisement:* Summer 2019 (Design-Build)

*Forecasted RFB:* Fall 2019

*Objective:*  
- Increase the wet-weather capacity

*Scope:*  
- An approx. 900-ft long, 8’ diameter tunnel and two concrete connection structures

**Project Timeline:**

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- Planning through Bid & Award  
- Construction  
- Close Out
North Shore Pump Station Wet Weather Improvements

Contract Value: $28-30M

Forecasted Advertisement: June 2019

Objective:
- Provide redundant effluent pumping capacity at North Shore Pump Station (NSS) during wet weather

Scope:
- Replacement of four dry weather pumps and discharge piping/valving; bar screens; and, distributed control system

Project Timeline:

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New Headworks Facility Project

Power Feed and Primary Switchgear Upgrades

Primary/Secondary Clarifier Upgrades

Building 521/522 and Disinfection Upgrades

*Land Reuse of 1801 Jerrold Avenue (Asphalt Plant)

*Land Reuse of 1800 Jerrold Avenue (Central Shops)

Existing Digester Gas Handling Improvements

Existing Digester Roof Repairs

Biosolids Digester Facilities Project (BDFP)

Oxygen Generation Plant

Project Complete

Project in Design or Construction

*Project in Close-out

Southeast Area Upgrades $2.134B

Facility-wide Projects

- Seismic Reliability and Condition Assessment Improvements
- Distributed Control System (DCS) Upgrades

Evans Ave.

PHELPS ST.

CALTRAIN

EVANS AVE.

3RD ST.
Southeast Area Post Phase 1 Upgrades

Biosolids Digester Facilities Project
New Headworks Facility Project
Primary & Secondary Clarifier Upgrades

521/522 and Disinfection Upgrades
Existing Digester Gas Handling Improvements
Power Feed and Primary Switchgear Upgrades
## Upcoming SSIP & WWE Contracts

<table>
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<tr>
<th>CONTRACT</th>
<th>VALUE ($ MILLIONS)</th>
<th>ANTICIPATED ADVERTISEMENT</th>
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<tr>
<td>WW-685, North Shore Pump Station Wet Weather Improvements</td>
<td>30</td>
<td>Summer 2019</td>
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<td>WW-687, Force Main Rehabilitation at Embarcadero and Jackson Street</td>
<td>5.5</td>
<td>Summer 2019</td>
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<td>WW-648, OSP Primary Clarifier Improvements</td>
<td>5.5</td>
<td>Summer 2019</td>
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<td>WW-696, Cargo Way Sewer Box Odor Reduction</td>
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<td>Summer 2019</td>
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<td>WW-669, OSP Grit Classifier and Primary Influent Slide Gate System Improvements</td>
<td>5.5</td>
<td>Summer 2019</td>
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<td>TBD, CSD Structure Backflow Prevention at Jackson and Griffith Streets</td>
<td>2.3</td>
<td>Fall 2019</td>
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<td>TBD, Southeast Bay Outfall Islais Creek Crossing Replacement</td>
<td>34</td>
<td>Fall 2019</td>
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<tr>
<td>TBD, Better Market Street Sewer Improvements – Phase I</td>
<td>5.5</td>
<td>Winter 2019-20</td>
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Community Benefits & Economic Inclusion

Priority Areas

• Workforce Development
  • Exceeding Local Hire Requirements
  • SSIP CityWorks Internship

• Education

• Arts

• Land Use & Environmental Justice
  • EJ Analysis for Biosolids project

• Small Business Opportunities
  • Contractors Assistance Center
Initial SSIP Local Hiring Results

Apprenticeships (Entry-level) Provided by SSIP

SF 65%
Other 35%

SSIP Local Hire Ordinance Achievement

20-30% Local Hire Percentage Requirements
32% Actual SSIP Local Hire Percentage Achieved

140 SF apprentices have worked 65% of hours (as compared to 50% requirement) and earned $1.5M in wages

489 San Francisco residents have earned $8.3M in wages on SSIP projects working 165K hours
THANK YOU.

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sfwater.org