## Emergency Firefighting Water System: Annual Report FY 2019-2020

John Scarpulla, SFPUC Heather Green, Office of Resilience and Capital Planning



# What is the EFWS?

- Emergency Firefighting Water System (EFWS): A highpressure fire-suppression water system built after 1906 earthquake.
- Hetch Hetchy Regional Water System = Primary Source of Water
- > EFWS ownership transferred to SFPUC in 2010
- SFFD is the end user: System improvements and expansion approved by SFFD, SFPUC, and Public Works
- > Hydraulic modeling utilized to guide decision making.



## Resolution 484-19

- > Urged the following:
  - By June 30, 2021: complete a study analyzing EFWS seawater supplies.
    - In Progress
  - By June 30, 2021: complete a more detailed analysis of neighborhood firefighting water demands.
    - In Progress
  - By December 31, 2021: develop a comprehensive citywide EFWS plan.
    - In Progress
  - Annual Report submitted each June 30.



## Annual Report – FY 19-20: EFWS Used at Fires

#### Feb 29, 2020:

- Toland St. & Evans St.
- 4 Alarm Fire

#### > May 23, 2020:

- Pier 45
- 4 Alarm Fire



## Annual Report – FY 19-20: Capital Projects

#### > Completed:

- Ashbury Bypass EFWS Pipeline
- Terry Francois & Mariposa EFWS Pipeline
- Irving Street EFWS Pipeline
- Pump Station No. 1 Upgrades

#### > Under Construction:

• Pump Station No. 2 Upgrades

#### > **Construction in FY 20-21:**

- 19<sup>th</sup> Ave EFWS Pipeline
- Clarendon Supply EFWS Pipeline
- Terry Francois/Mission Rock/Warriors Way EFWS Pipeline

## > Additional work in FY 20-21:

- Westside Potable EFWS: Environmental Review, Planning, and Design
- Street Valve Motorization: Bidding



## Annual Report – FY 19-20: Development Projects

- > Installed EFWS Infrastructure:
  - Pier 70
  - HopeSF Sunnydale
- Development Agreement Approved With EFWS Infrastructure:
  - Potrero Power Station
  - 3333 California Street
- Development Agreement With EFWS Infrastructure Pending Approval:
  - Balboa Reservoir



## Annual Report – FY 19-20: Maintenance

> Over 27,000 hours of maintenance performed on the City's Firefighting Water Infrastructure.

#### > Highlighting Tasks:

- Hydrant Inspections and Preventive & Corrective Actions (Joint with SFFD)
- Seawater Suction Connection Inspections and Preventive & Corrective Actions (Joint with SFFD)
- Reservoir and Cistern Inspections and Preventive & Corrective Actions (Joint with SFFD)
- Fixing Pipeline Leaks
- Pump and Generators Inspections and Preventive & Corrective Actions
- Valve Inspections and Preventive & Corrective Actions



## Annual Report – FY 19-20: Drills, Special Projects, and Meetings

- Pier 90 Seawater Manifold Drill (SFFD & Fireboat & SFPUC)
- Bay Bridge Pump Station & Standpipe Drill (SFFD & SFPUC)
- > 5" Hose Tender Drills (SFFD)
- SFFD & SFPUC 5" Hose Tender Drill (*planning* completed)
- Bay Dredging Near Seawater Inlets (SFFD & Port)
- > SFFD & SFPUC Joint Agency EFWS Meetings
- » SFFD & RPD Joint Agency Meetings



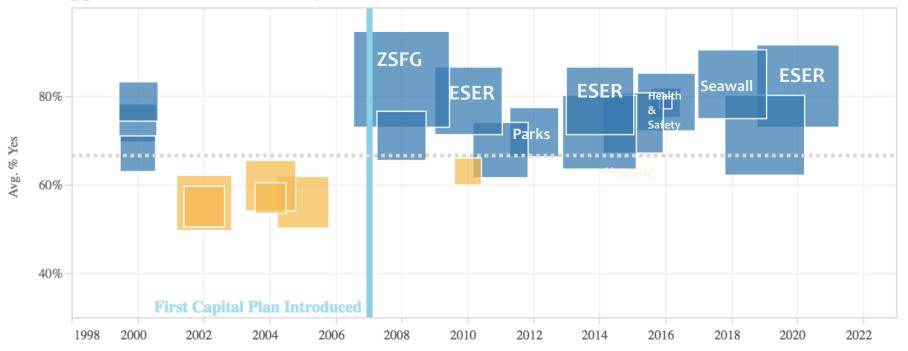
# Updating SFPUC/SFFD MOU

- Memorandum of Understanding Regarding the Operation and Maintenance of San Francisco Water Supply Systems Related to Fire Suppression
  - Signed in 2015 by SFFD and SFPUC
  - Updating it to better detail and memorializing exercises and drills utilizing EFWS
  - Expected to be completed in 2020.



## Voter Approval of G.O. Bond Measures since 2000

#### Voter Approval and Bond Value by Year





# ESER 2020 Bond Programming

- > \$628.5M total
- > \$153.5M Emergency Firefighting Water System (EFWS)
- > \$275M Fire Training and Station Facilities
- \$121.5 Police Station Facilities
- > \$70M Disaster Response Seismic Improvements
- > \$9M 1011 Turk (911 Call Center)



## EFWS per Bond Report

The selection of ESER 2020 projects will be guided by the system's technical steering committee, which consists of senior technical and operational managers from the Fire Department, Public Works and the San Francisco Public Utilities Commission. The Management Oversight Committee, which includes the fire chief, Public Works director, general manager of the San Francisco Public Utilities Commission and the assistant general manager of the Water Enterprise of the San Francisco Public Utilities Commission, will determine the list of ESER 2020 projects. The recommendations and decisions of these two committees will take into consideration the findings of the California Environmental Quality Act (CEQA) environmental review process.



#### Questions?

