File	No.	230824

Committee Item N	lo. _	6	
Board Item No.			

COMMITTEE/BOARD OF SUPERVISORS

AGENDA PACKET CONTENTS LIST

Committee: Land Use and Transportation Date: January 22, 2024			
Board of Supervisors Meeting: Date:			
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	Motion Resolution		
	Resolution Ordinance		
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	Budget and Legislative Analyst Repo	ort	
	Youth Commission Report		
	ntroduction Form		
	Department/Agency Cover Letter and	a/or Kep	ort
	MOU		
	Grant Information Form		
	Grant Budget		
	Subcontract Budget		
	Contract / DRAFT Mills Act Agreeme	nt	
	Form 126 – Ethics Commission		
	Award Letter		
	Application		
□ □ F	Public Correspondence		
OTHER			
	SFPUC Presentation Slides – January	<u>/ 22, 202</u>	24
<u> </u>	Referral FYI – July 19, 2023		
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Propared by:	John Carroll Date	· lanu	any 18 2024
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SF Emergency Firefighting Water System Capital Project Update to the Land Use and Transportation Committee

January 22, 2024

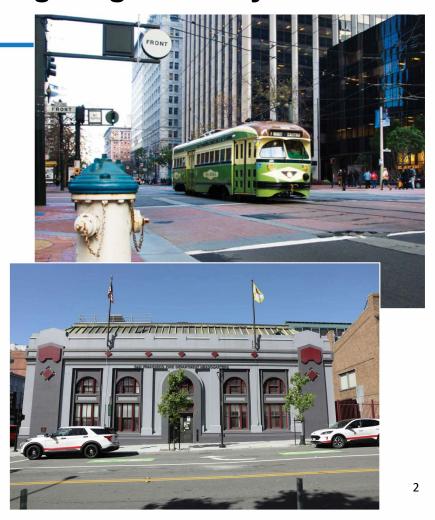
Katie Miller, Director, Water Capital Programs, SFPUC Brian Strong, Director, Office of Resilience and Capital Planning Darius Luttropp, Deputy Chief, SFFD



Emergency Firefighting Water System

Agenda

- Accomplishments to Date
- EFWS Future Build-Out
- EFWS Currently Funded Projects
- Financing Study Recommendations
- SFFD Update





ESER Bond Program 2010, 2014, & 2020





Overview of ESER 2020 Scope and Budget \$628.5M



Overview of ESER 2014 Scope and Budget \$400M

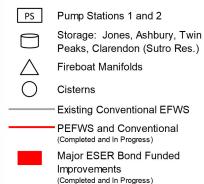


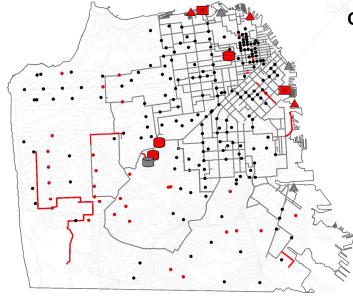
EFWS System Improvements funded for \$308M representing 21% of ESER Bond Funding (2010-2020)

Source: Quarterly Status Report, Presented to the Citizens' General Obligation Bond Oversight Committee, Third Quarter of FY22-23, June 2023.



Accomplishments to Date





EFWS Expansion:

- · Candlestick Point pipeline
- Terry Francois & Mariposa EFWS Pipeline
- Terry Francois/Mission Rock/Warriors Way EFWS Pipeline
- Clarendon Supply connection to Summit Reservoir
- 19th Ave Potable EFWS pipeline (Sloat Blvd to Vicente St)
- Vicente Potable EFWS pipeline (19th Ave to 23rd Ave)

Completed Projects:

Facilities:

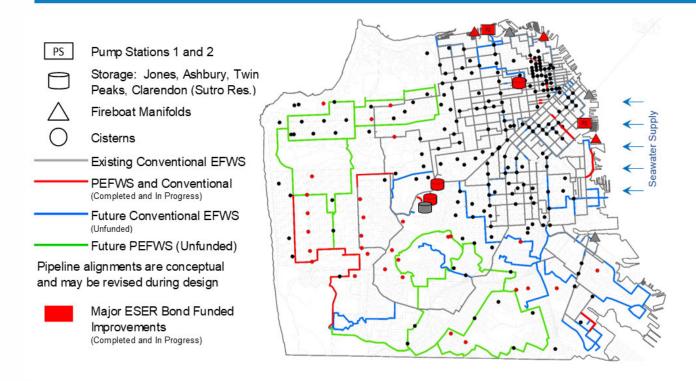
- 30 new cisterns
- Twin Peak Reservoir upgrades
- Ashbury Tank upgrades
- Jones Street Tank, Valves and Controls Improvements
- Pump Station No. 1 Upgrades
- Pump Station No. 2 Upgrades

Existing EFWS Pipeline Improvements:

- Ashbury Bypass EFWS Pipeline
- Fillmore/Haight pipeline
- Irving Street EFWS Pipeline
- 19th Ave EFWS Pipeline (from Irving St to Kirkham St)
- Columbus Avenue pipeline



EFWS Future Build-out



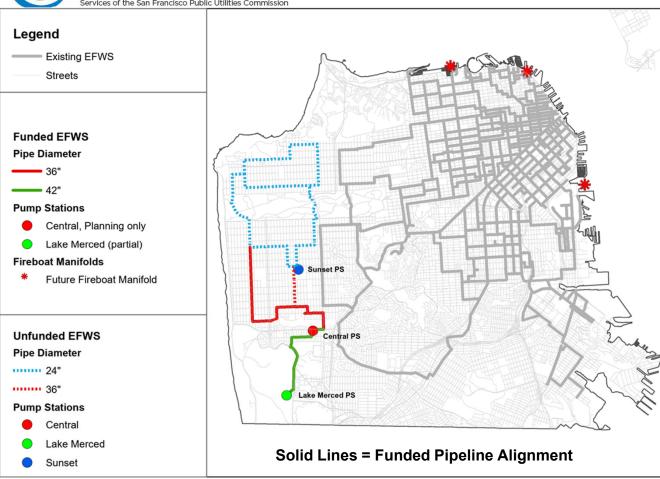
2050 Planning Study (2021)
Proposed Future Pipelines
both EFWS and PEFWS –
Full Build-Out Citywide

Full EFWS Build-Out will require significant future funding commitments

Planning Study estimated cost at least \$4B by 2046



Potable EFWS Current Funding



May 2023 Draft Conceptual Engineering Report

- Pipeline Cost Increase
- Fireboat Manifold Cost Increase

Funding Solutions

Cost Saving Alternatives
Prioritization of Projects
Water CIP to fund "fair share:"

- 55% ESER, 45% Water CIP for PEFWS pipeline
- 100% ESER for EFWS components

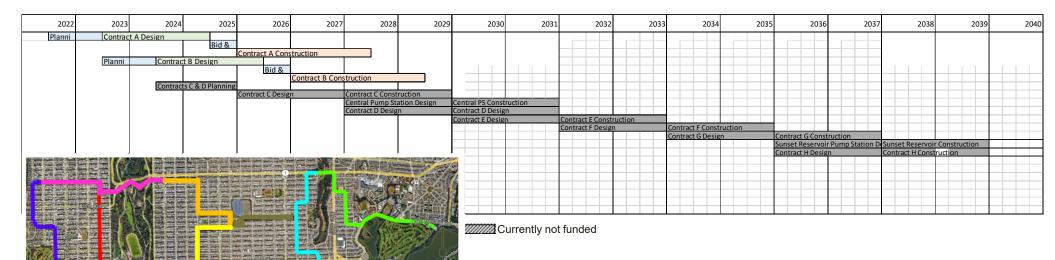
Schedule Solutions

Water to fund Planning/Design for "shovel ready" projects in 2028



Potable EFWS Project Schedule

PEFWS Project Delivery – Forecasted Milestones



Contract A - 42" Welded Steel Pipe Contract E - 24" ERDIP Contract B - 36" Welded Steel Pipe

Contract F - 24" ERDIP Contract C - 24" ERDIP

Contract D - 24" ERDIP

Contract H - 36" Welded Steel Pipe



Fireboat Manifolds

- 3 Fireboat Manifolds in Planning (Fort Mason, Pier 33-1/2, Mission Bay Ferry Landing)
 - Fort Mason critical with high risk of failure
 - Mission Bay Ferry Landing high value and low cost
 - Pier 33-1/2 recommend waiting for Sea Wall Improvements



Fort Mason Pier 1

- Recommend funding Design, Construction of new manifolds at Fort Mason & Mission Bay Ferry Landing using ESER 2020
- SFPUC and SFFD implementing Emergency Response protocols for Fort Mason until upgrade completed
- Schedule: Design/Permitting 2024-2026; Construction 2027-2029



2050 Planning Study Financing Study Recommendations

- Continue to support EFWS through the ESER G.O. program
- Continue to include EFWS in Development Agreements as new development occurs
- Consider the future formation of a Community Facilities District to support the Westside extension
- Consider public outreach campaign on fire prevention strategies

The future of EFWS & fire mitigation

Major current and potential funding sources compared:



Fire ignition mitigation can include city mandates and/or public outreach on excess flow shut-off valves and automatic circuit breakers



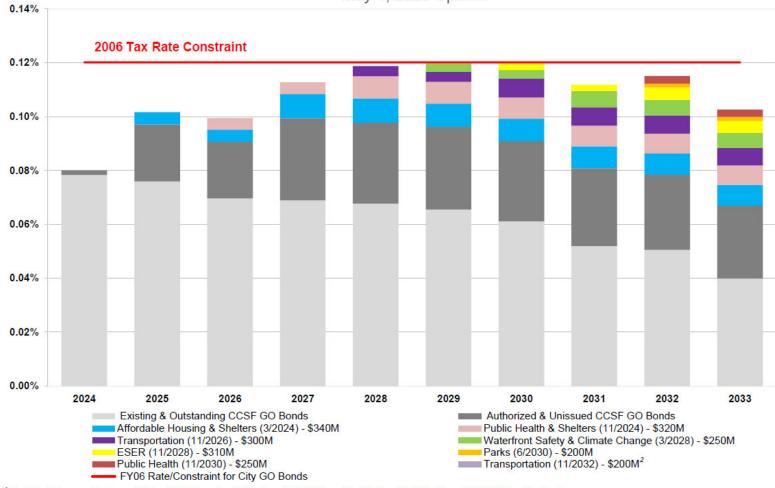
G.O. Bond Schedule

Election	Proposed Program	Amount (M)	Details
Mar 2024	Affordable Housing	300	Contribution to Affordable Housing Pipeline: 300M
Nov 2024	Public Health & Shelters	360	 Chinatown Health Clinic: 72M Silver Ave Health Clinic: 35M City Clinic: 29M ZSFG Bldg 3 Retrofit to allow 101 Grove Exit: 51M LHH/ZSFG Critical Renewals: 33M 1001 Polk St/260 Golden Gate Shelters: 140M
Nov 2026	Transportation	300	MTA facilities / yards
Mar 2028	Waterfront Safety & Climate Change	250	Seawall resilience: 200MOther climate priorities (flood/heat/GHG, etc.): 50M
Nov 2028	Earthquake Safety & Emergency Response	310	Fire StationsPolice StationsEmergency Firefighting Water Supply
Jun 2030	Parks & Open Space	200	 10 years since last RPD bond + escalation Renewals, retrofits, and climate projects across the city
Nov 2030	Public Health	250	ZSFG Building 80/90Health Clinics and other projects across the city
Nov 2032	Transportation	200	On-going facility and system-wide needsProjects yet to be defined
10 TOTAL		2,170	



sed Capital Plan - General Obligation Debt Program FY2024-2033

May 1, 2023 Update¹



Updated size and timing of Affordable Housing & Shelters (3/2024) and Public Health & Shelters (11/2024) authorizations

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² First tax levy for Transportation (11/2032) authorization does not occur until FY2034 AV growth assumption of 1.14%, 1.03%, 0.87%, 1.01%, 1.48% from FY24-28, 3% per year thereafter



Hose Tender Update

3 new hose tenders

- Station 18, located 1935 32nd Ave in service
- Station 22, located 1290 16th Ave Coming summer 2024
- TBD Coming summer 2024







Portable Hydrant



EFWS Operations – Drills & Training

SFPUC & SFFD: joint activities, drills to prepare and train for emergencies:

- Quarterly 5-inch EFWS Hose Tender and Portable Hydrant Drills
 - Test & replace hose as needed
- Quarterly Fireboat and Manifold Drills
- Pressure & Flow Testing for Treasure Island System
- SFFD & SFPUC Joint Agency EFWS Monthly Meetings & Annual Tabletop Exercises
- Upcoming Demonstration at Lake Merced January 31, 2024





EFWS Operations – Maintenance & Repairs

- Inspections & Preventative Actions Joint with SFFD
 - High Pressure Hydrants
 - Seawater Suction Connection Infrastructure
 - Reservoirs and Cisterns
- Various Pipeline Leak Repairs
- Monthly & Annual Pump and Generator Inspections and Preventive
 & Corrective Actions at Pump Stations and Reservoirs
- Valve Inspections & Exercising
 - Valves exercised and pressure tests performed around open sewer trenches to verify integrity of pipelines adjacent to construction



Questions?

BOARD of SUPERVISORS



City Hall
1 Dr. Carlton B. Goodlett Place, Room 244
San Francisco, CA 94102-4689
Tel. No. (415) 554-5184
Fax No. (415) 554-5163
TDD/TTY No. (415) 554-5227

MEMORANDUM

TO: Dennis Herrera, General Manager, Public Utilities Commission

FROM: Erica Major, Assistant Clerk, Land Use and Transportation Committee

DATE: July 19, 2023

SUBJECT: HEARING MATTER INTRODUCED

The Board of Supervisors' Land Use and Transportation Committee has received the following hearing request, introduced by Supervisor Chan on July 11, 2023:

File No. 230824

Hearing on the Emergency Firefighting Water System funding and design on the westside of San Francisco; and requesting the San Francisco Public Utilities Commission to report.

If you have any comments or reports to be included with the file, please forward them to me at the Board of Supervisors, City Hall, Room 244, 1 Dr. Carlton B. Goodlett Place, San Francisco, CA 94102.

cc: Masood Ordikhani, Public Utilities Commission Jeremy Spitz, Public Utilities Commission

Introduction Form

(by a Member of the Board of Supervisors or the Mayor)

I here	by subm	nit the following item for introduction (select only one):
(····		
	1.	For reference to Committee (Ordinance, Resolution, Motion or Charter Amendment)
	2.	Request for next printed agenda (For Adoption Without Committee Reference) (Routine, non-controversial and/or commendatory matters only)
П	3.	Request for Hearing on a subject matter at Committee
	4.	Request for Letter beginning with "Supervisor inquires"
	5.	City Attorney Request
	6.	Call File No. from Committee.
	7.	Budget and Legislative Analyst Request (attached written Motion)
	8.	Substitute Legislation File No.
	9.	Reactivate File No.
	10.	Topic submitted for Mayoral Appearance before the Board on
The p	roposed	legislation should be forwarded to the following (please check all appropriate boxes):
	□ Sr	nall Business Commission Youth Commission Ethics Commission
	□ P1	anning Commission Building Inspection Commission Human Resources Department
Gene	ral Plan	Referral sent to the Planning Department (proposed legislation subject to Charter 4.105 & Admin 2A.53)
000	□ Y	
(Note	e: For In	perative Agenda items (a Resolution not on the printed agenda), use the Imperative Agenda Form.)
Spon	sor(s):	
Cha	ın; Mel g	ar
Subje	ect:	
		the Emergency Firefighting Water Supply funding and design
1100	mig on	and Emergency Firengianing Water Supply familing and adolgin
Long	Title or	text listed:
	_	the Emergency Firefighting Water Supply funding and design on the westside, requesting incisco Public Utilities Commission to report.

Signature of Sponsoring Supervisor.