

File No. 230824

Committee Item No. 6

Board Item No. _____

COMMITTEE/BOARD OF SUPERVISORS

AGENDA PACKET CONTENTS LIST

Committee: Land Use and Transportation

Date: July 28, 2025

Board of Supervisors Meeting:

Date: _____

Cmte Board

- Motion
- Resolution
- Ordinance
- Legislative Digest
- Budget and Legislative Analyst Report
- Youth Commission Report
- Introduction Form
- Department/Agency Cover Letter and/or Report
- MOU
- Grant Information Form
- Grant Budget
- Subcontract Budget
- Contract / DRAFT Mills Act Agreement
- Form 126 – Ethics Commission
- Award Letter
- Application
- Public Correspondence

OTHER

- SFPUC Presentation Slides – January 22, 2024
- Referral FYI – July 19, 2023
- _____
- _____
- _____
- _____
- _____
- _____
- _____

Prepared by: John Carroll

Date: July 25, 2025

Prepared by: _____

Date: _____

Prepared by: _____

Date: _____



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

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 Luttrupp, Deputy Chief, SFFD

Emergency Firefighting Water System

Agenda

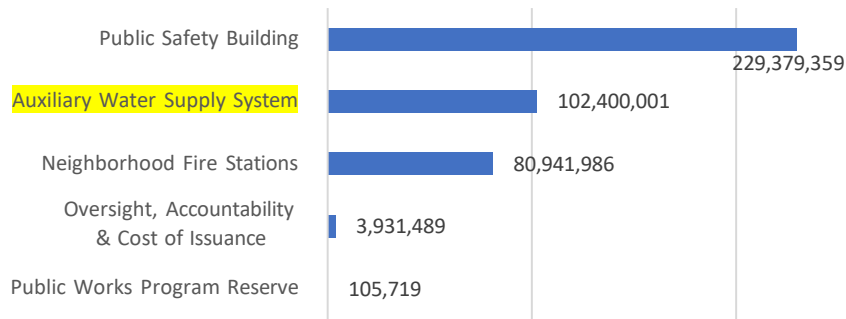
- Accomplishments to Date
- EFWS Future Build-Out
- EFWS Currently Funded Projects
- Financing Study Recommendations
- SFFD Update



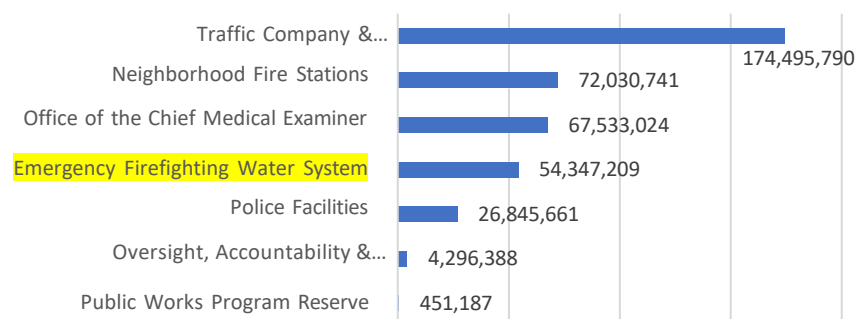


ESER Bond Program 2010, 2014, & 2020

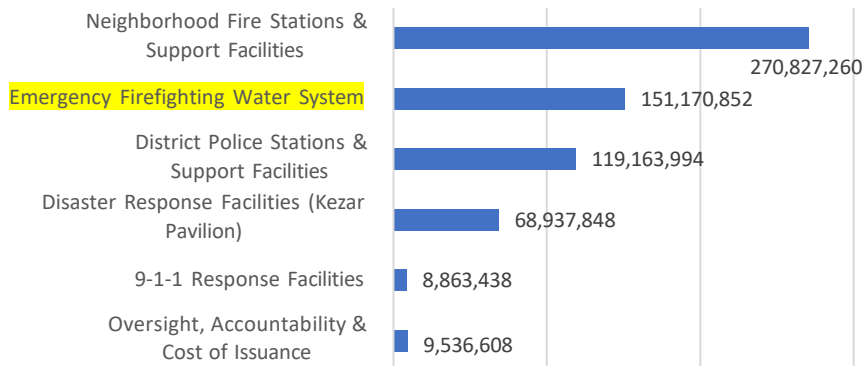
Overview of ESER 2010 Scope and Budget \$416.7M



Overview of ESER 2014 Scope and Budget \$400M



Overview of ESER 2020 Scope and Budget \$628.5M










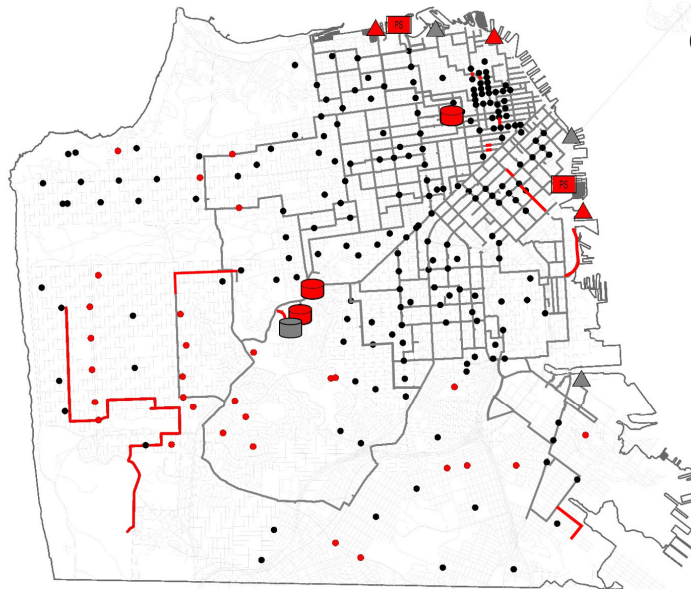
EFWS System Improvements funded for \$308M representing 21% of ESER Bond Funding (2010-2020)

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



Accomplishments to Date

-  Pump Stations 1 and 2
-  Storage: Jones, Ashbury, Twin Peaks, Clarendon (Sutro Res.)
-  Fireboat Manifolds
-  Cisterns
-  Existing Conventional EFWS
-  PEFWS and Conventional (Completed and In Progress)
-  Major ESER Bond Funded Improvements (Completed and In Progress)



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:

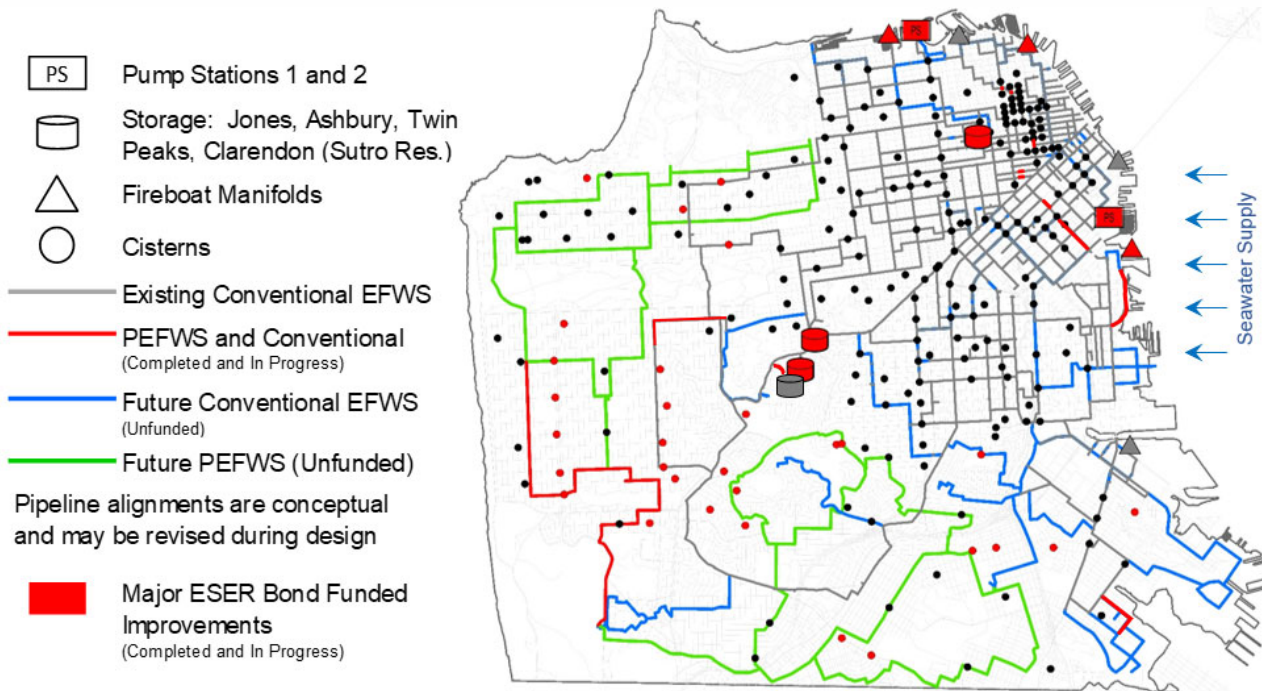
- **30 new cisterns**
- **Twin Peak Reservoir upgrades**
- **Ashbury Tank upgrades**
- **Jones Street Tank, Valves and Controls Improvements**
- **Pump Station No. 1 Upgrades**
- **Pump Station No. 2 Upgrades**

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

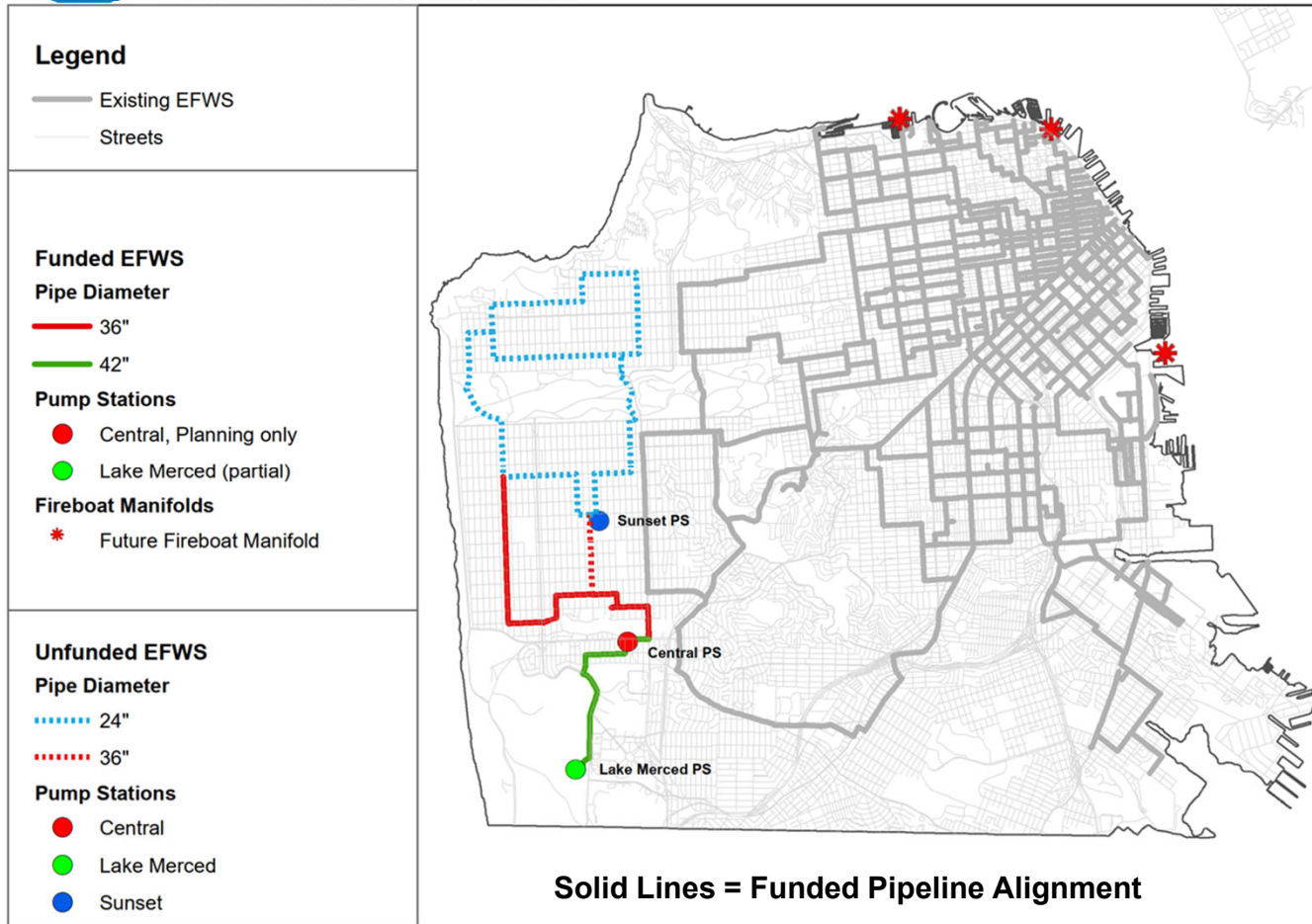


**2050 Planning Study (2021)
 Proposed Future Pipelines
 both EFWS and PEFWS –
 Full Build-Out Citywide**

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

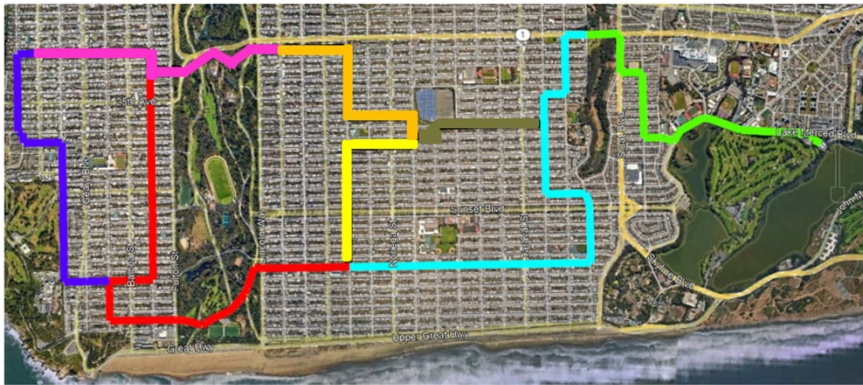
Schedule Solutions

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

Potable EFWS Project Schedule

PEFWS Project Delivery – Forecasted Milestones

2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
Planni	Contract A Design		Bid &															
	Planni	Contract B Design		Contract A Construction														
				Bid &	Contract B Construction													
		Contracts C & D Planning		Contract C Design	Contract C Construction													
					Central Pump Station Design	Contract D Design	Central PS Construction	Contract D Design										
								Contract E Design	Contract E Construction	Contract F Design								
											Contract F Construction	Contract G Design	Contract G Construction					
													Sunset Reservoir Pump Station D	Contract H Design	Sunset Reservoir Construction	Contract H Construction		



 Currently not funded

- Contract A – 42” Welded Steel Pipe
- Contract B – 36” Welded Steel Pipe
- Contract C – 24” ERDIP
- Contract D – 24” ERDIP
- Contract E – 24” ERDIP
- Contract F – 24” ERDIP
- Contract G – 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:

Source Type	Revenue Generating Potential	Stable Revenue Stream	Long-Term Sustainability	Competition for other City uses	Voter Approval Required	Administrative Complexity
Current Funding Sources						
General Obligation Bonds	Strength	Strength	Neither strength or weakness	Weakness	Weakness	Neither strength or weakness
Water Revenue Bonds	Strength	Neither strength or weakness	Neither strength or weakness	Weakness	Strength	Neither strength or weakness
Developer Agreements	Weakness	Weakness	Weakness	Strength	Strength	Neither strength or weakness
Other Funding Sources						
Mello-Roos Bonds / CFD	Strength	Strength	Strength	Neither strength or weakness	Weakness	Weakness

Key		
Strength	Neither strength or weakness	Weakness

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

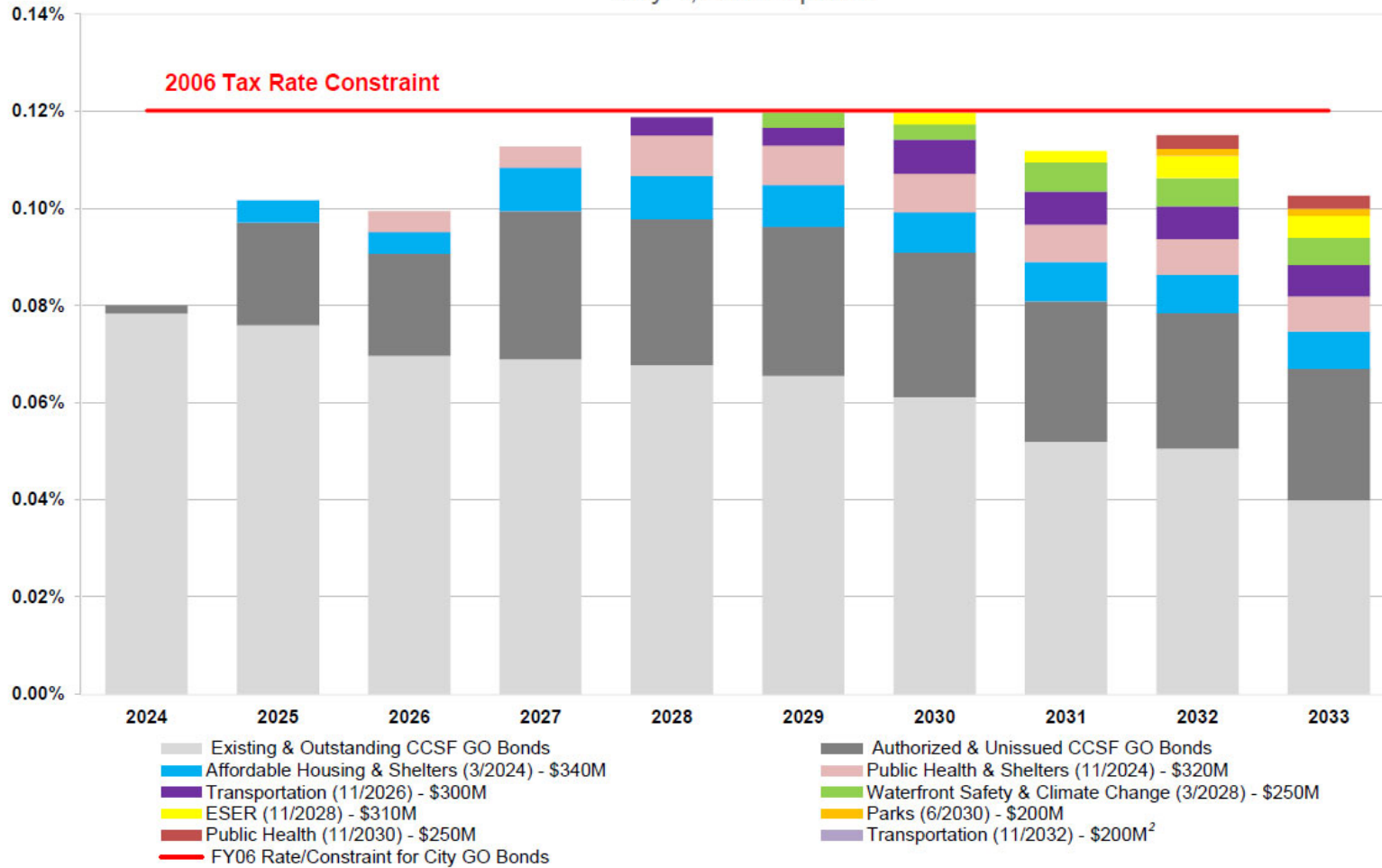
G.O. Bond Schedule

Election	Proposed Program	Amount (M)	Details
Mar 2024	Affordable Housing	300	<ul style="list-style-type: none"> Contribution to Affordable Housing Pipeline: 300M
Nov 2024	Public Health & Shelters	360	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> MTA facilities / yards
Mar 2028	Waterfront Safety & Climate Change	250	<ul style="list-style-type: none"> Seawall resilience: 200M Other climate priorities (flood/heat/GHG, etc.): 50M
Nov 2028	Earthquake Safety & Emergency Response	310	<ul style="list-style-type: none"> Fire Stations Police Stations Emergency Firefighting Water Supply
Jun 2030	Parks & Open Space	200	<ul style="list-style-type: none"> 10 years since last RPD bond + escalation Renewals, retrofits, and climate projects across the city
Nov 2030	Public Health	250	<ul style="list-style-type: none"> ZSFG Building 80/90 Health Clinics and other projects across the city
Nov 2032	Transportation	200	<ul style="list-style-type: none"> On-going facility and system-wide needs Projects yet to be defined
¹⁰ TOTAL		2,170	



sed Capital Plan - General Obligation Debt Program FY2024-2033

May 1, 2023 Update¹



¹ Updated size and timing of Affordable Housing & Shelters (3/2024) and Public Health & Shelters (11/2024) authorizations

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



Demonstration at Twin Peak on 10-17-2023



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



- 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



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Water Power Sewer
Services of the San Francisco Public Utilities Commission

Questions?

BOARD of SUPERVISORS



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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

From: [aeboken](#)
To: [Melgar, Myrna \(BOS\)](#); [MelgarStaff \(BOS\)](#); [Preston, Dean \(BOS\)](#); [PrestonStaff \(BOS\)](#); [Peskin, Aaron \(BOS\)](#); [PeskinStaff \(BOS\)](#); [Anne Pearson](#); [Carroll, John \(BOS\)](#)
Subject: Strongly Urging Continuance of Land Use and Transportation Committee Agenda Item #6 for January 22, 2024 Meeting [Hearing - Emergency Firefighting Water System Funding and Design] File #230824
Date: Monday, January 22, 2024 12:11:33 AM

This message is from outside the City email system. Do not open links or attachments from untrusted sources.

TO: BOS Land Use and Transportation Committee members

cc: DCA Pearson
Committee Clerk Carroll

FR: Eileen Boken, President
Sunset-Parkside Education and Action Committee (SPEAK)

RE: January 22, 2024 BOS Land Use and Transportation Committee agenda item #6 [Hearing - Emergency Firefighting Water System Funding and Design] File #230824

Position: Strongly urging continuance of this item.

Two underlying issues still exist for AWSS.

The MOU for the transfer of AWSS from the Fire Department to the SFPUC was never fully executed as the approval never came before the Fire Commission.

The PUC is using ESER bond funds for potable water AWSS which appears to be inconsistent with Prop 218 and potentially illegal.

It's unclear why the PUC suddenly shifted from dedicated AWSS to potable water AWSS for the Westside.

This policy change does not appear to have been approved by the PUC Commission.

A public records request has been submitted regarding this policy change.

Last year, at the June 1st meeting of the GAO Committee, the PUC misrepresented AWSS configuration changes and funding changes in its documentation and presentation.

It took the GAO to force the PUC to acknowledge its misrepresentations.

###

Sent from my Verizon, Samsung Galaxy smartphone

From: [aeboken](#)
To: [Anne Pearson](#); [Carroll, John \(BOS\)](#); [Melgar, Myrna \(BOS\)](#); [Preston, Dean \(BOS\)](#); [Peskin, Aaron \(BOS\)](#)
Subject: Strongly Urging City Attorney to Make Determinations Prior to BOS Land Use and Transportation Committee Meeting on Monday January 22, 2024 re Agenda Item 6 Emergency Firefighting Water System Funding and Design
Date: Friday, January 19, 2024 11:11:41 AM

This message is from outside the City email system. Do not open links or attachments from untrusted sources.

TO: Anne Pearson,
Deputy City Attorney for Land Use and Transportation Committee

cc: Land Use and Transportation Committee Chair Myrna Melgar, Committee Vice Chair Dean Preston and Committee Member Aaron Peskin

cc: John Carroll,
Clerk for Land Use and Transportation Committee

FR: Eileen Boken, President
Sunset-Parkside Education and Action Committee (SPEAK)

RE: Land Use and Transportation Committee January 22, 2024 agenda item #6 [Hearing - Emergency Firefighting Water System Funding and Design] File #230824

Greetings DCA Pearson,

Sunset-Parkside Education and Action Committee (SPEAK) is strongly urging the City Attorney to make the following determinations prior to the Land Use and Transportation Committee meeting on Monday January 22, 2024 re the Emergency Firefighting Water System.

1) The Auxiliary Water Supply System (AWSS) was brought into service in 1913. From 1913 until 2010, it was under the jurisdiction of the Fire Department with design and engineering by the Department of Public Works.

In 2010 AWSS was transferred from the Fire Department to the SF Public Utilities Commission (SFPUC) in order to balance the City's budget.

The MOU which was drafted to formalize the transfer required the following:

- Approval of the transfer by the SFPUC Commission.
- Sign off by the SFPUC General Manager.
- Approval of the transfer by the SF Fire Department Commission.

- Sign off by the SF Fire Department Chief.

SPEAK's understanding is that only three of the four steps were completed.

The transfer was never agendized and approved by the SF Fire Commission.

If all four steps for the transfer as specified in the MOU were not completed, is the transfer null and void? If so, what are the implications?

2) When the AWSS system was originally transferred to the SFPUC, the SFPUC pursued a policy of retaining the AWSS system as it was originally designed as a system independent of the City's drinking water system.

When the SFPUC upgraded the AWSS system with Earthquake Safety and Emergency Response (ESER) General Obligation Bond funds in 2010 and 2014, it was for the independent/dedicated AWSS system as originally designed and was, therefore, consistent with Prop 218.

However, the SFPUC has changed its policy for the expansion of the AWSS system to the Westside of the City.

The SFPUC policy for the Westside is not to use an independent system as originally designed but rather to use potable (drinking) water AWSS. This potable water AWSS system would use a single pipe for both drinking water and emergency firefighting.

The SFPUC has even used ESER 2020 funds for potable water AWSS.

It's SPEAK's understanding that using General Obligation Bond funds for drinking water Infrastructure is inconsistent with State Proposition 218 and is, therefore, possibly illegal.

SPEAK has brought this issue to the attention of the SFPUC Commission as well as the Citizens General Obligation Bond Oversight Committee (GOBOC).

It's also SPEAK's understanding that this has never been brought to the attention of the City Attorney and that no determination has been made on the consistency or lack of consistency with Prop 218.

SPEAK respectfully urges the City Attorney to make these determinations prior to the Land Use and Transportation Committee meeting on Monday January 22, 2024 or to request that the Land Use and Transportation Committee continue this item until such time as these determinations have been made.

###

Sent from my Verizon, Samsung Galaxy smartphone

Introduction Form

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

I hereby submit 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)
- 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 proposed legislation should be forwarded to the following (please check all appropriate boxes):

- Small Business Commission Youth Commission Ethics Commission
- Planning Commission Building Inspection Commission Human Resources Department

General Plan Referral sent to the Planning Department (proposed legislation subject to Charter 4.105 & Admin 2A.53):

- Yes No

(Note: For Imperative Agenda items (a Resolution not on the printed agenda), use the Imperative Agenda Form.)

Sponsor(s):

Chan; Melgar

Subject:

Hearing on the Emergency Firefighting Water Supply funding and design

Long Title or text listed:

Hearing on the Emergency Firefighting Water Supply funding and design on the westside, requesting the San Francisco Public Utilities Commission to report.

Signature of Sponsoring Supervisor. _____

