

Emergency Firefighting Water System | Civil Grand Jury Report



June 1, 2023










Board of Supervisors

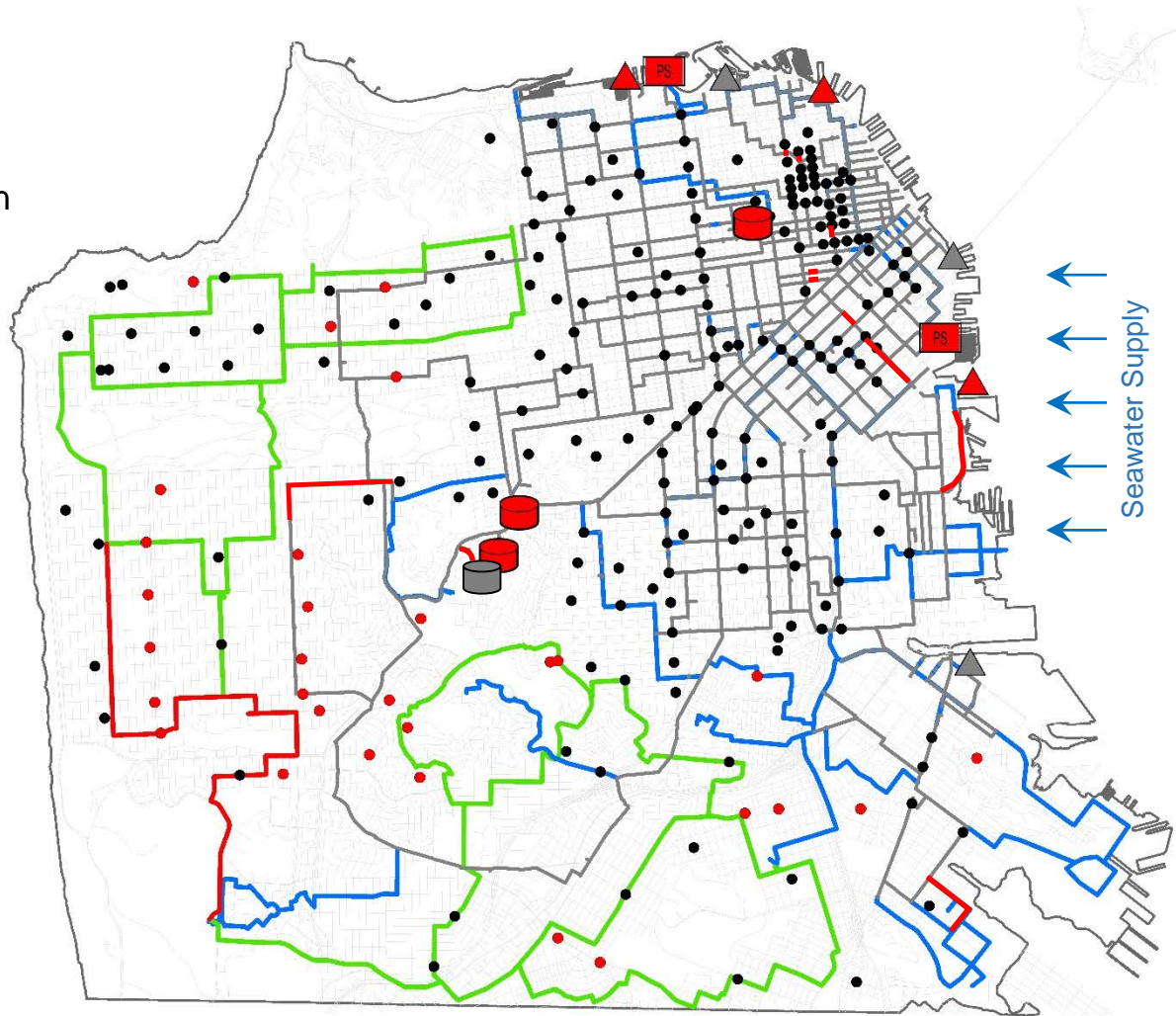
Government Audit and Oversight Committee

Emergency Firefighting Water System (EFWS) Timeline

2010	EFWS transfer from SFFD to SFPUC
2010 & 2014	Earthquake Safety and Emergency Response (ESER) Bonds
2019	Civil Grand Jury Report (CGJR)
2020	ESER Bond
2021	SFPUC Response to CGJR and BOS recommendations: <ul style="list-style-type: none">• Seawater Supply Study (July 2021)• Firefighting Water Needs Study (July 2021)• 2050 Planning Study (December 2021)
2022	<ul style="list-style-type: none">• 2050 Planning Study Presentations to BOS/ORCP• ORCP EFWS Financing Study

ESER Bond EFWS Improvements

-  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)
 -  Future Conventional EFWS (Unfunded)
 -  Future PEFWS (Unfunded)
- Pipeline alignments are conceptual and may be revised during design
-  Major ESER Bond Funded Improvements (Completed and In Progress)



Planning Level Cost Estimate

	Cost Estimate* ((\$M))	
Unescalated (2021\$)	\$	1,947
Escalated - Completion by 2034	\$	2,945
Escalated - Completion by 2046	\$	4,072

*For details refer to 2050 Planning Study (December 2021)

Program Schedules

Completion by 2034

- Accelerated project start
- 5-year planning, design and permitting
- 6-year construction
- Significant additional City resources required

Completion by 2046

- Typical project start schedule
- 7-year planning, design and permitting
- 14-year construction

Emergency Firefighting Water System Update

SFPUC, SFFD, and Public Works have been implementing projects to improve the EFWS with funding from ESER GO Bonds, Water Revenue Bonds, and Developer Agreements



	Allocation (\$000)
General Obligation Bonds	
2010 ESER	\$ 102,568
2014 ESER	\$ 54,509
2020 ESER	\$ 151,184
<i>Total General Obligation Funding</i>	<i>\$ 308,261</i>
Revenue Bonds	
SFPUC Water Revenue Bond	\$ 55,000

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

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

Requested Actions

- Accept findings from studies
 - Seawater Supply Study
 - Firefighting Water Needs Study
 - 2050 Planning Study
 - EFWS Financing Study

Thank you

