



Embarcadero Seawall Community Meeting #7 Summary

December 17, 2021 and
January 12, 2022



Waterfront Resilience Program

COMMUNITY MEETING #7 OVERVIEW

Event Details

PowerPoint Slide Show - Community Meeting #7 - Embarcadero Early Projects - PowerPoint

COMMUNITY-DRIVEN RESILIENCE

Engagement By the Numbers



- Connected with **tens of thousands** of people since 2017
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Wendy Proctor

- **Timing:**

- Friday, December 17, 2021, 1:30 to 2:30 PM
- Wednesday, January 12, 2022, 5:30 to 6:30 PM

- **Location:**

- Zoom meeting link provided

COMMUNITY MEETING #7 OVERVIEW

Agenda



- Community Engagement Updates
- Overview of risks facing the Embarcadero waterfront
- Post-Multi-Hazard Risk Assessment planning work
- Embarcadero Early Projects
- Q&A
- Next Steps

MEETING ATTENDANCE



156 people attended the two meetings:

- **70 attendees on 12/17/21**
- **86 attendees on 1/12/22**

MEETING MATERIALS

Click the links to the right to view meeting materials



- [Presentation Deck](#)

OVERVIEW: WHAT WE HEARD

What are the most important considerations as Embarcadero Early Projects begin? We heard the following general comments and feedback from the two meetings.

Recreation and Shoreline Access

- Maximize access to shoreline and waterfront facilities during construction

Environmentally Friendly Design

- Explore environmental solutions like living seawalls and sea farms for native plants

Equity

- Ensure that other parts of the city, especially the Central and Southern Waterfront, are not negatively impacted by Embarcadero Early Projects

Funding and Contracting

- Share information about CEQA compliance, LBE requirements, and bond funding

WHAT WE HEARD: Q&A SESSIONS

In the Q&A session after the presentation, we received a total of 41 questions during the two meetings.

- Questions were asked using Zoom's Q&A feature, which allowed attendees to read each others' questions and "up vote" the ones they would like the Port to answer
- Port then verbally answered questions directly, and questions were resolved live on screen
- On December 17, 2021, 17 of 19 questions were addressed and answered
- On January 12, 2022, 22 of 22 questions were addressed and answered
- Special thanks to participants for such thoughtful and engaging questions
- The following slides will show all 41 questions from the Q&A sessions

WHAT WE HEARD: Q&A SESSIONS

1. Are there any projects specifically related to protecting public transportation infrastructure? i.e.: the vulnerable underground tunnel entrances?
2. Were flood gates considered such as the ones that are implemented in Venice Italy?
3. What are living sea wall treatments?
4. I know you are talking about Embarcadero today, does the funding also include the other projects down the 3rd street corridor?
5. Are you performing any of the work when construction occurs -such as the new Firehouse at the Bay Bridge area?

WHAT WE HEARD: Q&A SESSIONS (CONTINUED)

6. How is the Port working with other city departments on early projects?
7. Are there early projects in the Mission Bay area?
8. If the estimated cost of all 23 projects ends up being around the high end of \$3 billion, will Prop A revenue cover those expenses or would more bonds need to be taken out?
9. When will the presentation be available? Is this meeting recorded?
10. Have you learned lessons from other cities around the country and the world?
11. What types of seismic improvement construction methods are being considered for these projects?

WHAT WE HEARD: Q&A SESSIONS (CONTINUED)

12. Is Kris Hill's work (UCB) identifying increased groundwater levels (directly responsive to sea levels as they rise) on your planning radar?

13. Will there be a SF LBE requirement for these projects and if so, what will % will be required?

14. How will San Francisco avoid the potential flooding like what happened in Manhattan with water flowing down into the Metro or flooding the sea level streets & homes?

15. Have the early projects and proposed funding from Bond A been approved by the City's Capital Planning Committee? Will the early projects be managed under the current contract with Jacobs Engineering or will they be put out for separate bids? Will there be a master programmatic CEQA document for some and/or all of these?

WHAT WE HEARD: Q&A SESSIONS (CONTINUED)

16. Have there been exploration of building a sea farm to grow native Bay plants which serve multi purposes such as being a learning space to promote the environment, grow native plants, and also absorb the rising sea level?
17. Are you considering modeling or pilot studies as an alternative to a seawall as a construction option?
18. Venice realized after years and years that they had to change the docking practices of cruise ships which caused huge displacement of water. How is SF examining this potential contributing sea rise cause? P.s. I am an engineer knowledgeable about fluid mechanics

WHAT WE HEARD: Q&A SESSIONS (CONTINUED)

19. In July, Anne Guerry of the Stanford Natural Capital Project stated, "In some cases, building a seawall might directly protect wealthier communities while leaving poor neighboring communities at higher risk of flooding," and added the importance of a combination of both infrastructure and natural flood protection, such as marshes and oyster beds. Do you have any comments?

20. Hi, thank you for the presentation! I am wondering how communities of San Francisco, like Bayview Hunters Point will be impact by the sea wall. In addition, are there any similar projects that will help protect those in and around Bayview Hunters Point from the impacts of sea level rise? Thank you.

WHAT WE HEARD: Q&A SESSIONS (CONTINUED)

21. Please say more about the issue of equity. Being that this work will take place along the waterfront, how would it benefit the people who live in parts of the city that are not near the waterfront?
22. For the 11 early projects advancing to pre-design, what discussions have occurred between Port and City Planning about
23. Will presentation and/or recording be available after tonight?
24. The boundary for this Seawall work is east of Hyde Street Pier?
25. CEQA compliance. Is their consideration being given to a programmatic EIR for all 11 or at least some of them?

WHAT WE HEARD: Q&A SESSIONS (CONTINUED)

26. Have the design engineers been awarded to provide the pre-design concept? If yes, are they listed somewhere? If not, when do you expect to finalize and award the design teams?
27. Any projects prioritized between Ferry Building and Pier 25 in the NE Waterfront?
28. In planning these numerous projects, what consideration is given for including in their design and implementation, efforts to enhance existing wildlife habitat locations or create new ones?
29. 2nd question...providing earthquake retrofit is great for protecting the future of these seawalls/concrete structures; is corrosion planning a strong consideration for the new projects?

WHAT WE HEARD: Q&A SESSIONS (CONTINUED)

30. What will happen to South Beach Marina while the seawall is under construction?

31. Is fixing the municipal pier a different effort than this one?

32. Where can SF Local Business Enterprises view the LBE goals associated with these projects?

33. How is accessibility or universal design principles included in the design brief of projects

34. Would the projects have impacts on the beach and cove or structures at Aquatic Park?

WHAT WE HEARD: Q&A SESSIONS (CONTINUED)

35. Are you benefitting by comparing approaches with other jurisdictions that are addressing similar issues i.e. Seattle for seawall strengthening, NYC for resilience / flood proofing
36. Are you working with the Federal project for Pier at Aquatic Park? What is the relationship between these two initiatives.
37. Who might be looking at improved electrical infrastructure at the marinas?
38. Is shoreline access for kayak/stand up paddle considered?
39. Have you seen the sea wall that protects Shanghai's Bund from the harbor? It was built decades ago and is more than one story taller than the Bund (Shanghai's version of Embarcadero). Will our long term future sea wall be like that?

WHAT WE HEARD: Q&A SESSIONS (CONTINUED)

40. Do the various projects include future maintenance costs? Is there a service life to first time repair of seawalls/concrete structures?

41. Will you all hold additional match making or meet the prime contractor for the local small business to work on these projects?

WE HOPE TO SEE YOU AT A FUTURE COMMUNITY MEETING!

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WRP COMMUNITY AND STAKEHOLDER ENGAGEMENT

Community Meeting Series – 6 meetings since 2018

EMBARCADERO WATERFRONT

1 June 2018 Introduction to the Seawall Program	2 Sept. 2018 Assets & Risks	3 Jan. 2019 Adaptive Framework, Goals & Tradeoffs	4 June 2019 Decision-making Framework
5 Winter 2019 MHRA Approach and Early Findings	6 Fall 2020 MHRA Findings, Draft Measures	7 Winter 2021 Embarcadero Early Projects	8 Summer 2022 Adaptation Strategies

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EMBARCADERO EARLY PROJECTS LIST



PROJECT LIST:

- 1 Joint Operations Security Center and Fuel Dock Reliability Project
- 2 Wharf J9 Replacement and Resilient Shoreline Project
- 3 Taylor Street Seawall Earthquake Stabilization Project
- 4 Pier 45 Apron Earthquake Safety Retrofit and Flood Risk Reduction
- 5 Pier 43 1/2 Seawall and Wharf Earthquake Safety Project
- 6 Pier 41 Seawall Earthquake Stabilization and Wharf Retrofit
- 7 Pier 39 Seawall Earthquake Stabilization & Wharf Retrofit/Replacement
- 8 Pier 33 to 35 Seawall and Wharf Earthquake Reliability Project
- 9 Pier 31-1/2 Bulkhead Wall and Wharf Earthquake Safety Retrofit
- 10 Pier 27 Seawall and Wharf Earthquake Reliability Project
- 11 Pier 15 Bulkhead Wall and Wharf Earthquake Safety Retrofit
- 12 Pier 9 Bulkhead Wall and Wharf Earthquake Safety Retrofit
- 13 Pier 9 Historic Shed Building Earthquake Safety Retrofit Project
- 14 Pier 1 Bulkhead Wall and Wharf Earthquake Reliability Project
- 15 Ferry Building Seawall & Substructure Earthquake Reliability
- 16 Agriculture Building Bulkhead Wall and Wharf Earthquake Safety
- 17 Pier 5 to Pier 22-1/2 Near-Term Coastal Flood Risk Reduction Project
- 18 Pier 24 to Pier 28-1/2 Bulkhead Wall and Wharf Earthquake Safety
- 19 EFWS Intake Tunnel #1 Earthquake Reliability Project
- 20 Seals Plaza / South Beach Harbor Seawall Earthquake Stabilization Project
- 21 Pier Fire Suppression & Waterside Evacuation Improvements
- 22 EFWS Fireboat Mansard Earthquake Reliability Project
- 23 Pier Utility Connection Earthquake Retrolits at Seawall

- **11** advancing straight to pre-design (needs assessment) using Proposition A funding
- **5** advancing through a geographic strategy for the stretch between Piers 19 and 41
- **7** advancing through coordination with long-term Port tenants, capital programs, and City agency coordination

Legend:
● Proposition A Pre-design
● Coordination with Long-term Tenants, Capital Programs and City Agencies
● Advance through Geographic Strategy





Steven Reel

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EVALUATION CRITERIA

35 individual criteria across five categories, developed with community input

				
Feasibility & Performance	Society & Equity	Economic & Financial	Environmental	Governance & Partnerships

Brad Benson

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