

8/9/2022

IR Site 12 Conceptual Site Model Update Restoration Advisory Board Presentation

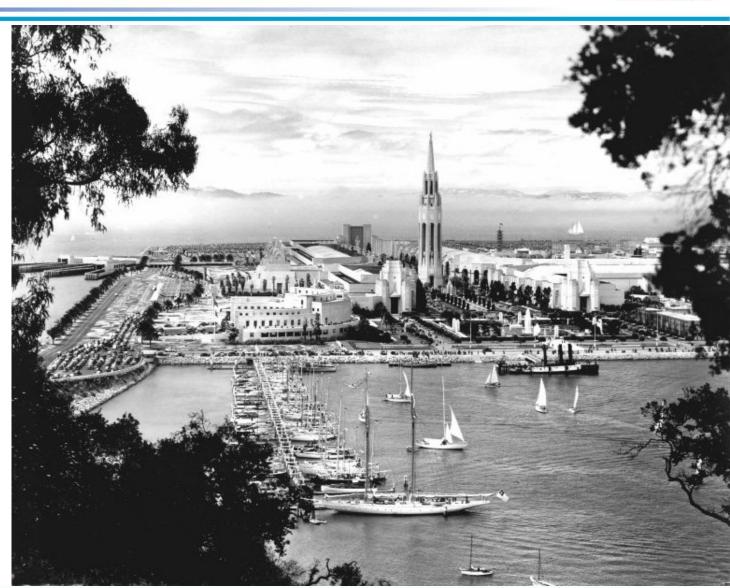
Naval Station Treasure Island San Francisco, California



Innovex-ERRG Joint Venture

Topics to be Covered

- •Purpose of the Conceptual Site Model (CSM)
- •Site 12 Housing Area
- •Site 12 Solid Waste Disposal Areas (SWDAs)
- Waste Disposal Chronology
- Munitions Disposal Footprint
- Pre-Housing Construction Work
- Central Rubbish Area
- •How does the CSM Update refine our understanding?
- Next Steps



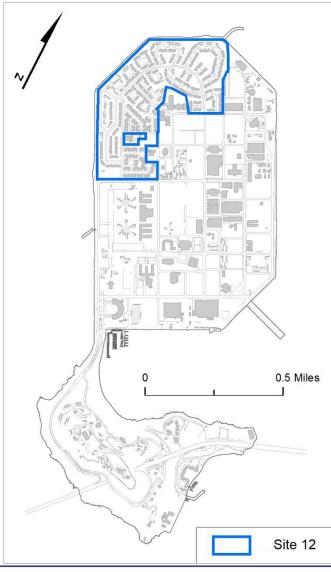




Purpose of Conceptual Site Model



- •The CSM is an iterative, 'living representation' of a site that summarizes and helps cleanup project teams visualize and understand available information for planning investigations and cleanup remedies.
- •The CSM uses a combination of written and graphical work products to portray both known and hypothesized site information.
- •The CSM assists cleanup project teams and decision makers throughout the life cycle stages of investigation and cleanup.
- •A detailed, up-to-date, and accurate CSM supports decisions related to characterization, assessing risk, remedy selection, and site reuse.



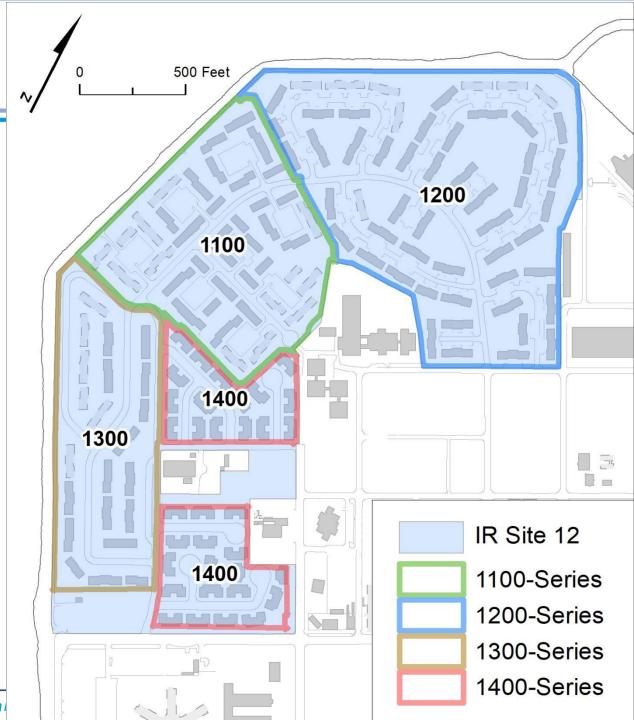
Site 12-Housing Area

•Site 12 is an environmental site at the northwest end of Treasure Island

- -Cleanup activities follow the CERCLA process with California regulatory agency oversight
- •Former naval ammunition storage facility during WWII and waste disposal areas from 1940s to early 1960s

Later developed as Navy housing:

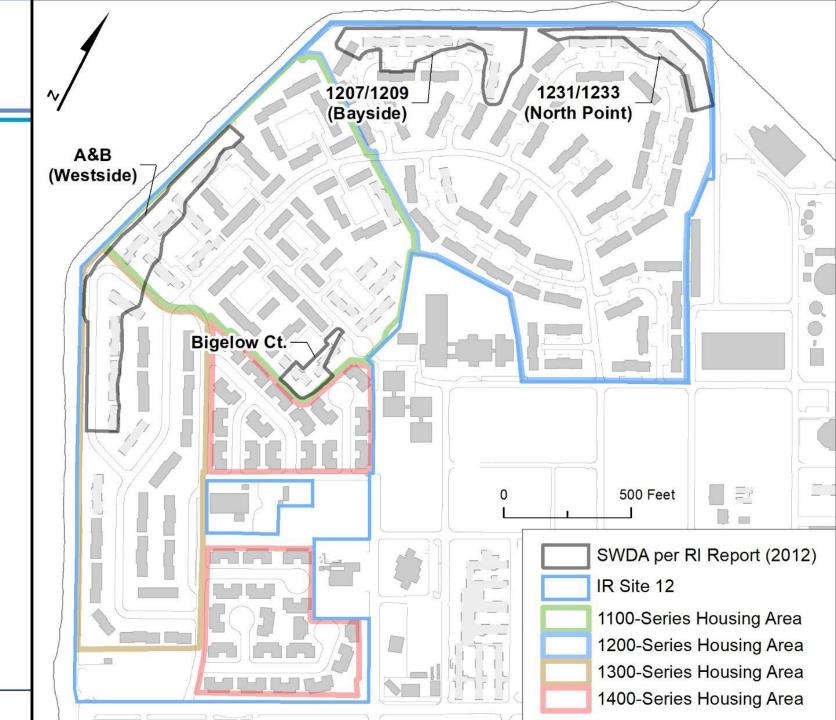
1100-series (1965) 1200-series (1972) 1300-series (1974-75) 1400-series (1988)

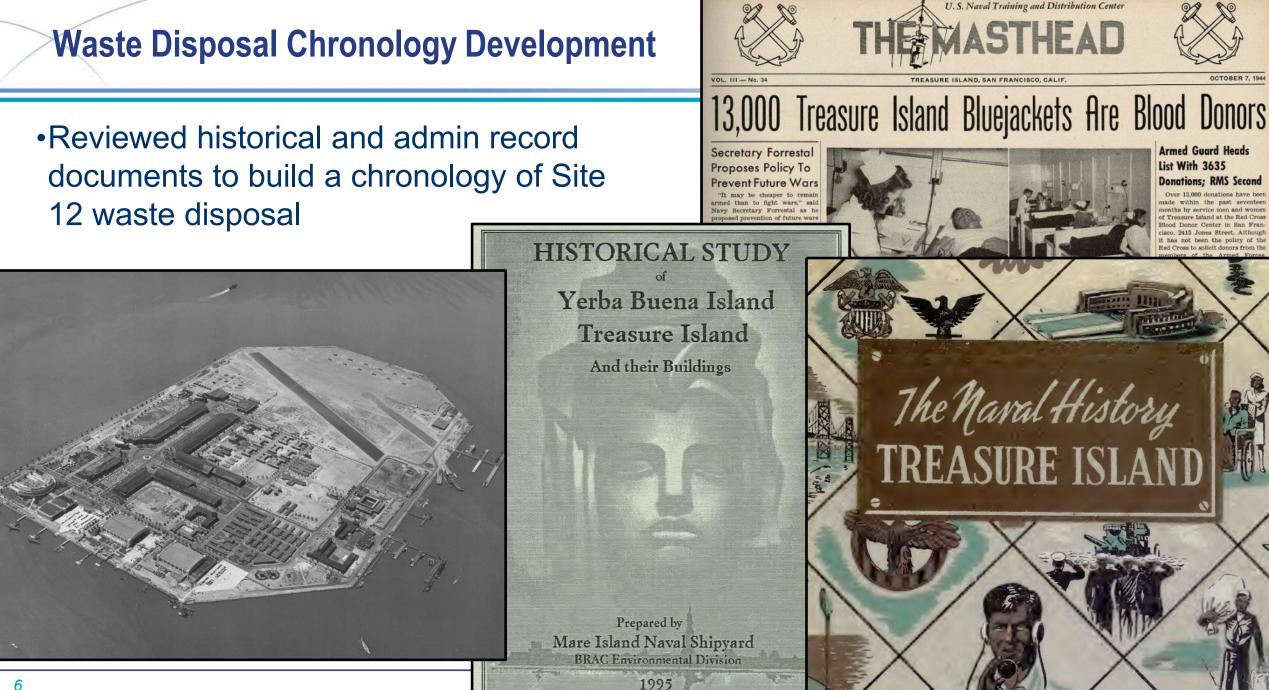


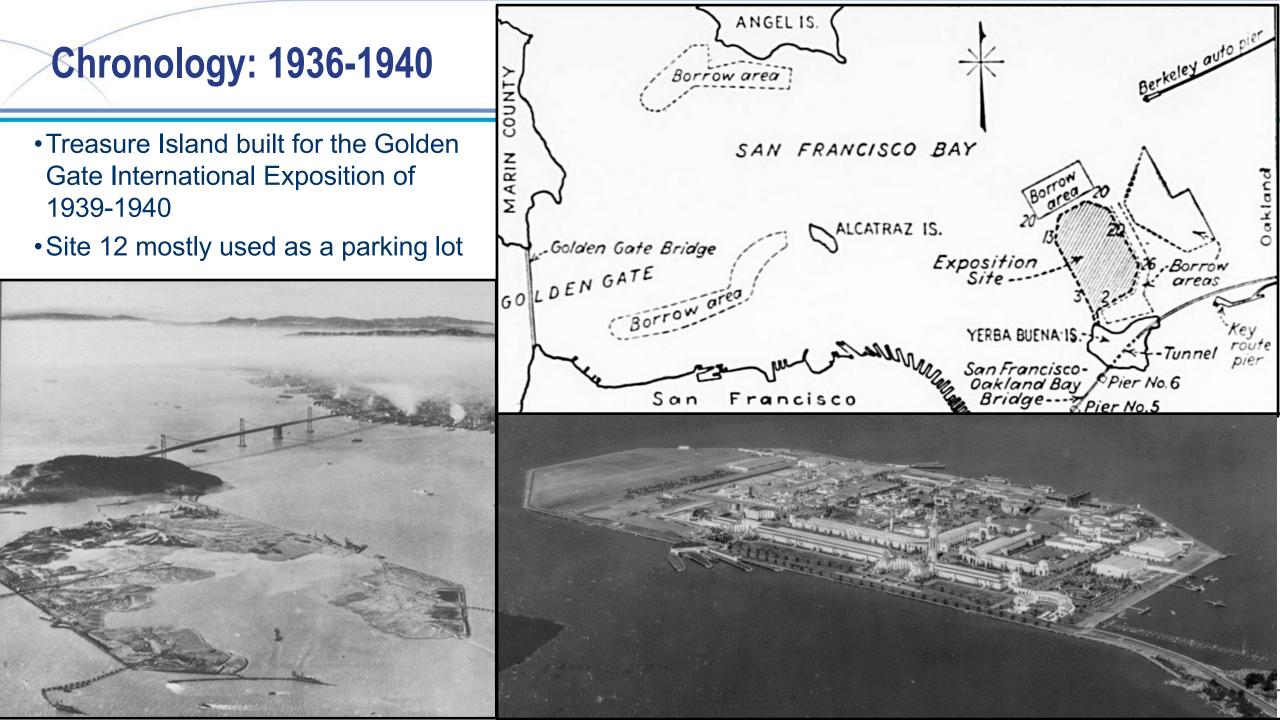
Site 12 SWDAs (2012)

Solid Waste Disposal Areas (SWDAs) at TI can contain:

- Domestic/Sanitary waste and/or industrial waste from Navy operations
- Chemical contamination
- Low-level radiological objects (LLROs), e.g. aircraft carrier deck markers
- Munitions items (1945-1947)



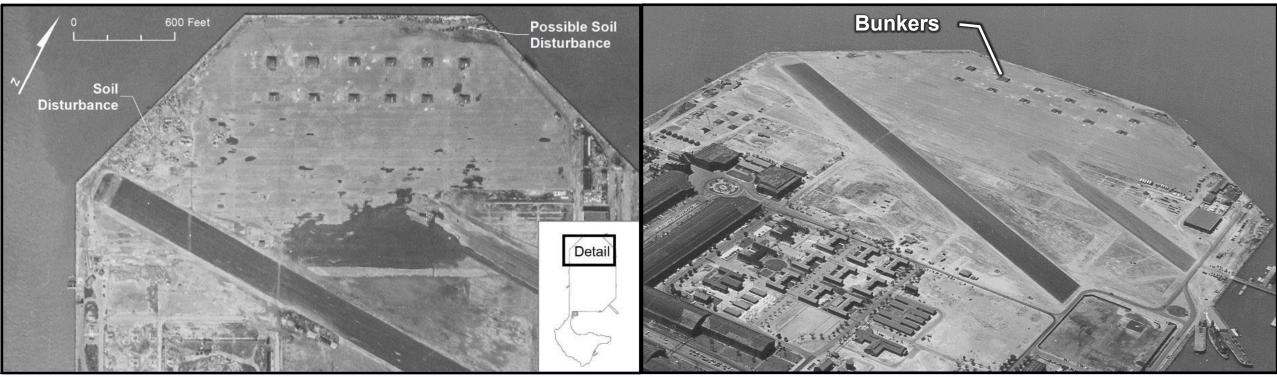




Chronology: 1941-1943



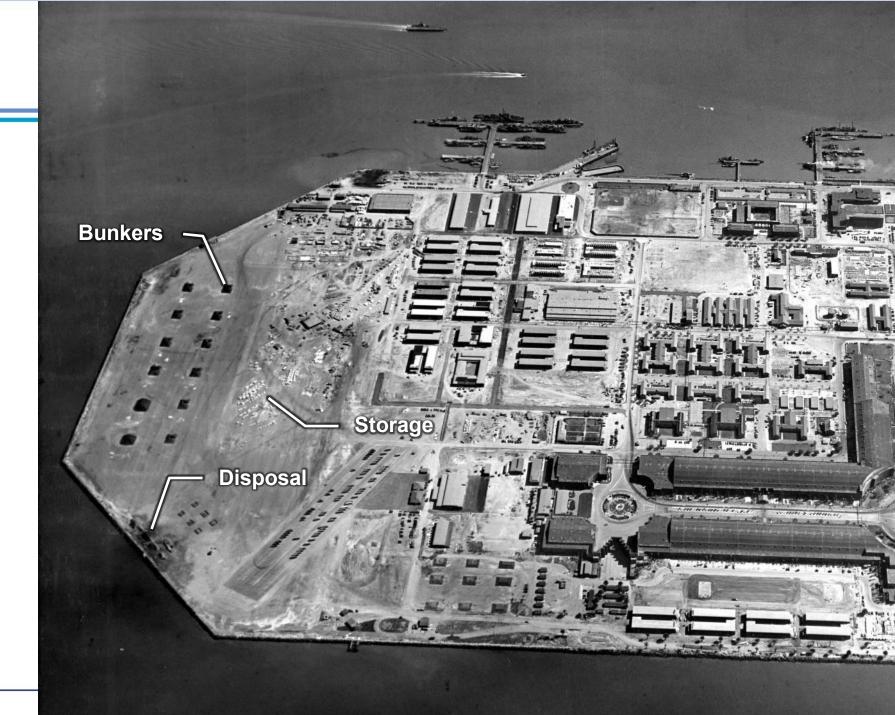
- •Original plan: Develop TI as a municipal airport
- December 7, 1941: Attack on Pearl Harbor
- April 17, 1942: Navy takes ownership, constructs ammunition bunkers at Site 12
- •1942: Waste disposal begins near end of runway (now called Westside SWDA)



Chronology: 1944

•Ammunition storage at center of Site 12

•Continued disposal at end of runway (Westside SWDA)



Chronology: Late 1944-1945

•Ammunition Facility established

- Large bunkers constructed expanding ammunition storage area
- –Enclosed by a security fence no waste disposal in fenced area
- •Waste disposal continues at Westside SWDA





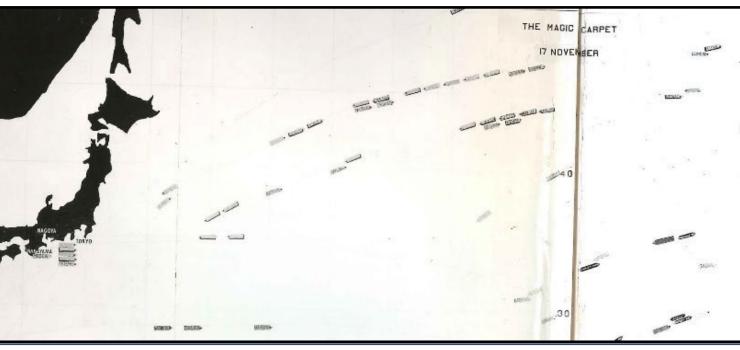
Chronology: September 1945

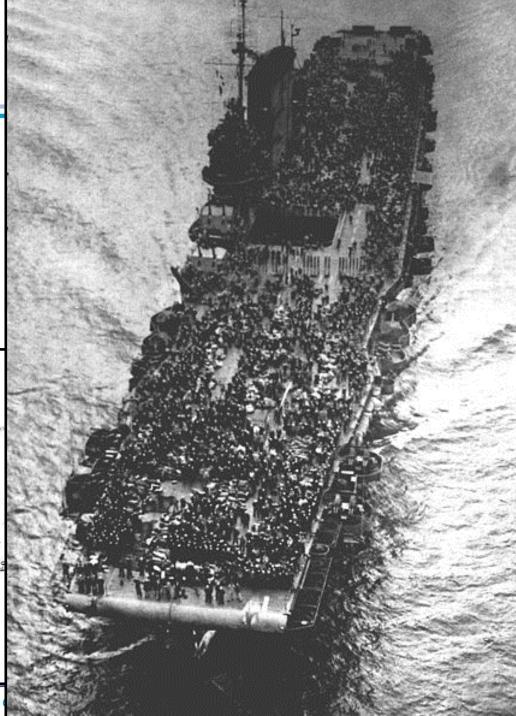
 Japan surrenders; Operation Magic Carpet begins

 –8 million service members return over ~one year, average 22,000 per day

-TI is a major disembarkation point, average 4,000 per day, max 12,000 in one day

• Start of munitions disposal; items of Japanese-origin





Chronology: 1946

- Operation Magic Carpet continues
- Deep disposal pit and soil piles at Westside SWDA
- •Ammunition Facility decommissioned June 1, 1946





Chronology: 1947

•Former bunkers converted to general storage:

- -Burn pit is established between two bunkers at Bayside SWDA
- –Possible soil disturbance at North Point SWDA
- •Continued waste disposal activity at Westside SWDA

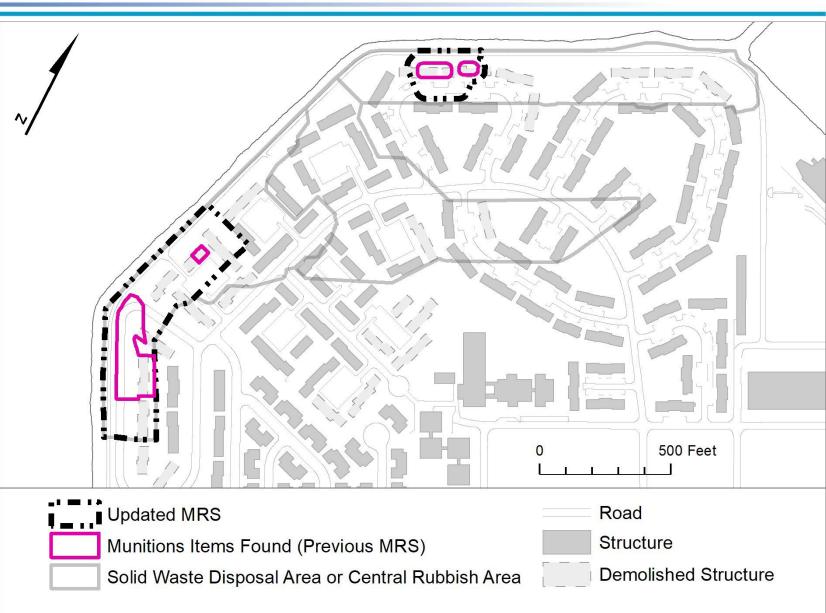
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Munitions Disposal Footprint

- Munitions Response Site (MRS) an area requiring munitionsrelated safety precautions for soil excavation
- •Cleanup work found 414 munitions items compatible with WWII-era
 - –No explosives in ~90% of items
 - Most items are empty cartridge casings associated with naval antiaircraft guns
 - -Finds are in areas of deep disposal; most finds were deeper than 6 feet.
- CSM Update recommended an expanded MRS to enclose disposal activity circa *Operation Magic Carpet* (1945-1947)





Chronology: early 1950s

- •Disposal at Bayside SWDA burn pit
- •Little to no activity at Westside SWDA pits and piles are absent



BRAC Program Manag



Chronology: late 1950s

- •Darkened soil around Northpoint SWDA incinerator (built 1952)
- Possible soil disturbance around Westside SWDA

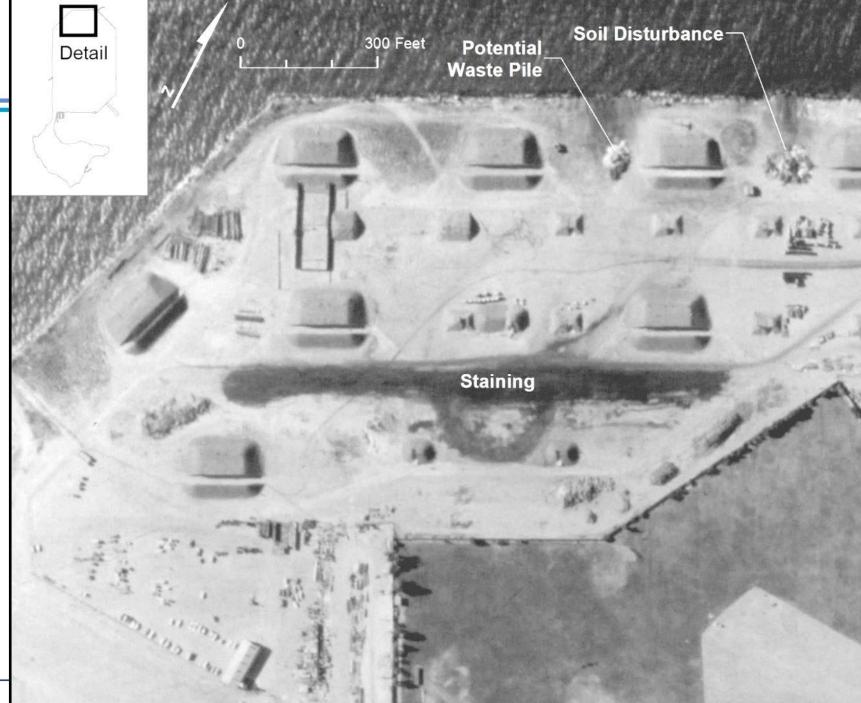
 known disposal at some point based on new mounds flanking runway by mid-1960s





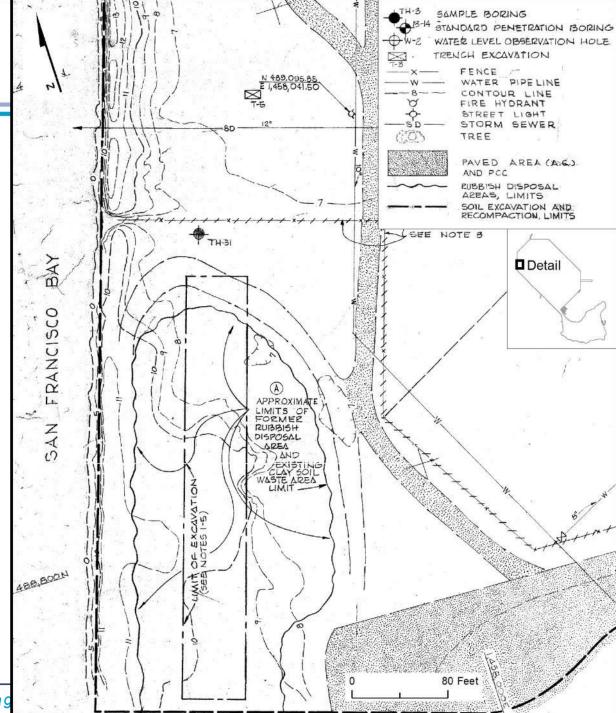
Chronology: Early 1960s

- •Soil staining appears further inland than previous disposal activity
- This area called the
 Central Rubbish Area
 (CRA)
- •Pre-housing development (1965) documents describe past trenching and burial of "sanitary waste" in the CRA



Pre-Housing Construction Work

- •Reports document the presence of "rubbish" disposal at Site 12 coinciding with the SWDAs and the CRA
- Soil borings and trenches documented presence of buried, loose rubbish which would create a stability issue for housing foundations
- As-built maps indicate that rubbish was excavated, mixed with soil, replaced in the hole and compacted, then the excavation was filled to grade with more-or-less rubbishfree soil
- •Reburied rubbish typically starts around 2 to 3 feet underground



BRAC Program Mana

Central Rubbish Area Investigation (2014)



- Film reel, bottles, deodorant
 4-6 feet deep
- Earlier trenching in 2004 found metal cannisters around 4 feet deep

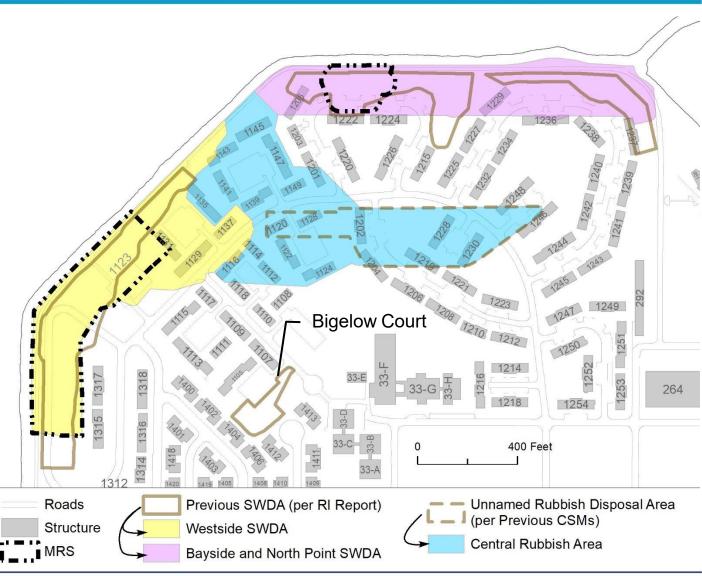




How does the CSM Update refine our understanding?



- •Better understanding of original disposal locations
- Northeast boundary of Westside SWDA expanded
- Bayside and Northpoint SWDAs combined
- •Bigelow Ct not an original disposal area
- •CRA is larger and can contain nonhousehold waste
- More detailed understanding of earthwork prior to housing construction
- MRS expanded to include likely munitions disposal (disturbance 1945-1947; mostly > 6 feet deep)







•CSM Update Report is in the review, comment, and resolution period

- -Our research did not uncover any information that would require new restrictions for the residents
- -Treasure Island remains a safe place to live, work, and play
- •Additional findings and conclusions will be presented at future RAB meetings
 - -Findings presented today are those most likely to be of interest to residents and larger community
- Fact Sheet in September
 - -Covers similar content as this presentation
 - -Mailed to all Site 12 residents (and mailing list) and posted to website with eblast alert
- Final CSM revisions will be incorporated into the Feasibility Study Addendum #2
 - -Addresses radiological concerns throughout Site 12 and all environmental concerns within the disposal areas
 - -This deeper understanding of the CSM will assist the Navy in developing a variety of cleanup alternatives in order to continue to ensure protectiveness of current and future users regardless of the types of reuse
- •Following the FS, a Proposed Plan document and meeting presents, to the public, the remedy alternatives under consideration

 Public meeting will present pros and cons for all remedies and allow for questions, comments, and input from the public on the preferred remedy alternative

