



Treasure Island 2019 Five-Year Review Process

Naval Station Treasure Island
Restoration Advisory Board Meeting

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Presentation Outline



- Purpose
- Objectives
- Process
- What is Protectiveness?
- Site Specific Overviews
- Schedule
- Questions

Purpose of a Five Year Review



The purpose of a Five-Year Review is to evaluate the implementation and performance of the remedy in order to determine if the remedy is, or will be, protective of human health and the environment.



Purpose of a Five Year Review



A Five-Year Review is required for remedial actions where hazardous substances, pollutants, or contaminants remain at sites at levels that do not allow for unlimited use and unrestricted exposure

- Required every five years to assure that human health and the environment are protected by the remedial action



Five-Year Review Objectives

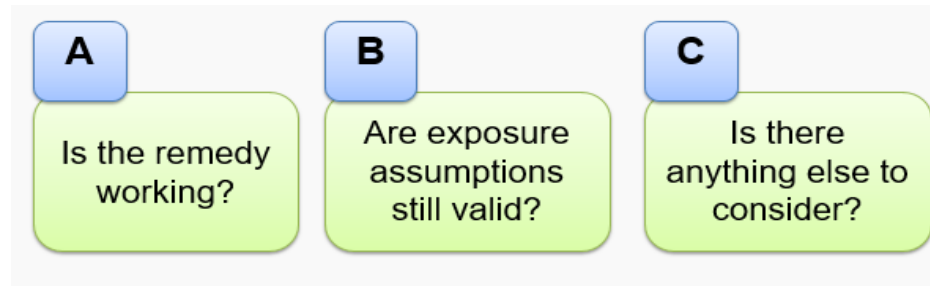


- Determine if the remedy is functioning as intended
- Document post-Record of Decision (ROD) optimization efforts and cleanup progress
- Identify issues that affect current or future protectiveness and recommendations to address these issues
- Document findings in Protectiveness Statements for each site

Five-Year Review Process

- **Document Review:** Decision documents, monitoring reports, technical memos
- **Technical Assessment:** inspect sites, analyze new data, compare goals to current criteria

Technical Assessment Questions



- **Community Involvement:** notices, phone interviews, public comment period on report, fact sheet
- **Reporting:** Assess whether remedies are protective; and, if necessary, note issues, recommendations, and follow-up actions
- **Regulatory Involvement:** Agencies oversee, review, and concur on technical assessment and protectiveness statements

Community Involvement



- **Public Notices** before, during, and after
- **Phone interviews** with community members are underway
- Reports (Draft and Final) placed in **information repository for public review** at the San Francisco Main Library and online (<https://www.bracpmo.navy.mil/>)
- **Fact Sheet** summarizing protectiveness statements and the path forward for each site (BRAC website and mailer)



Possible Five-Year Review Outcomes



Protective

Protective in the Short Term

Will Be Protective

Protectiveness Deferred

Not Protective

2019 Five-Year Review Sites

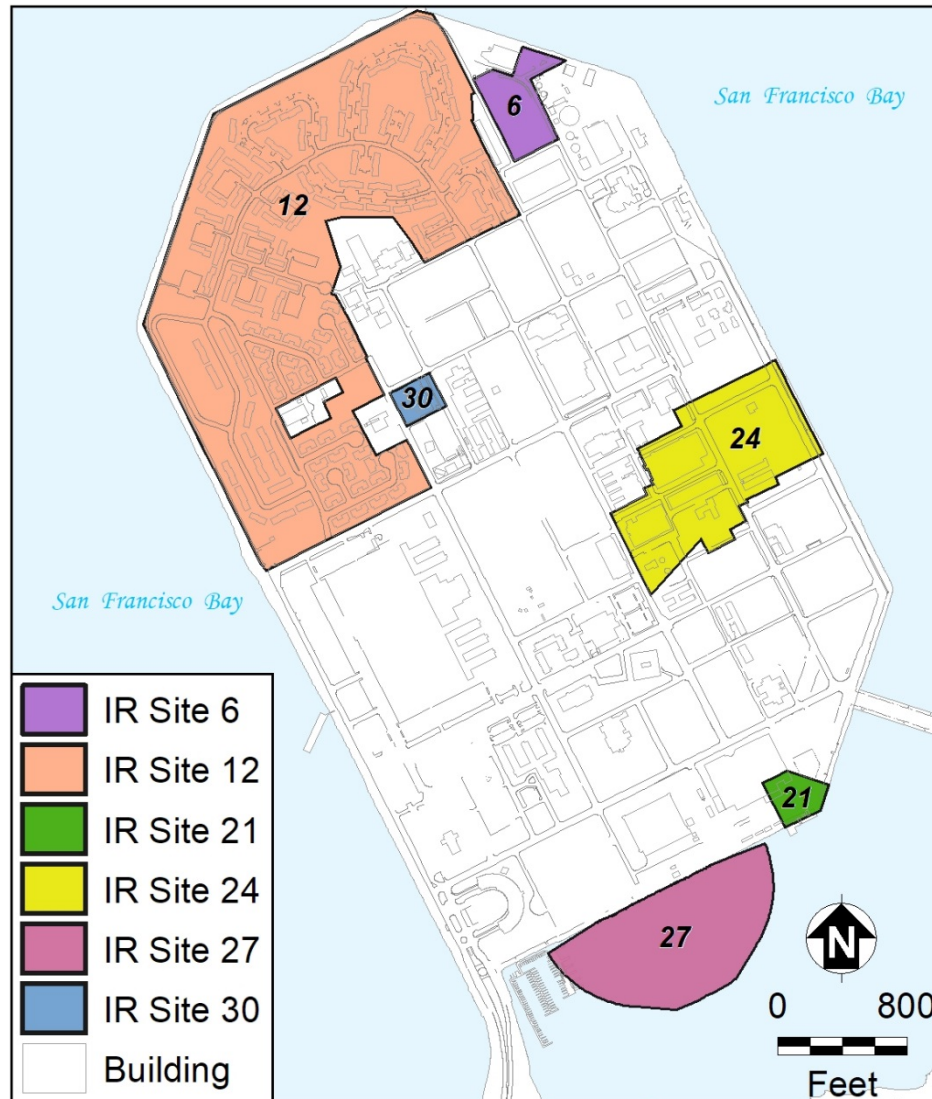


Data evaluation covers time period from
January 2014 to December 2018

Site	Name	Review Status	Notes
6	Fire Fighting Training School	1 st review	ROD signed December 2014
12	Housing Area*	1 st review	ROD signed March 2017
24	Former Dry Cleaning Facility	1 st review	ROD signed December 2015
21	Vessel Waste Oil Recovery Area	2 nd review	Determined Protective in 2014
27	Clipper Cove Skeet Range	2 nd review	Determined Protective in 2014
30	Daycare Center	2 nd review	Determined Protective in 2014

*Cleanup for non-radiological, non-solid waste disposal area locations of Site 12

Second Five-Year Review Sites



Site 6 – Fire Fighting Training School



The former Navy firefighting training school was used for nearly 50 years (1944 to 1992) for firefighting training activities.



Site 6 – Fire Fighting Training School (Continued)



- Goal is to cleanup to allow for open space use.
No housing planned.
- Environmental cleanup of: metals, petroleum hydrocarbons, solvents, and dioxins in soil, groundwater, and soil gas
- The implemented remedies are:
 - Soil excavation and off-site disposal
 - Land Use Controls due to residual contamination in soil, groundwater, and soil gas
 - Soil gas and groundwater monitoring

Site 12 – Housing Area



Site 12 – Housing Area (Continued)



- Goal is to cleanup the site to support residential and open space use
- Environmental cleanup of (ROD #1): lead, PCBs, dioxins and PAHs in soil
- The selected remedies are:
 - Soil excavation
 - Groundwater monitoring

Site 12 – Housing Area (Continued)



- Along with the digging advisory, there are other protective measures in place:
 - Fencing
 - Air/dust monitoring
 - Signs
 - Community outreach
 - Working hours
 - Traffic control
 - Truck identification
 - Regulatory oversight



Site 21 – Vessel Waste Oil Recovery Area



Site 21 covers approximately two acres and contamination of groundwater is from use of tetrachloroethene and trichloroethene during former parts cleaning operations.



Site 21 – Vessel Waste Oil Recovery Area (Continued)



- Goal is to allow for continued current use of property – commercial
- Environmental cleanup of: chlorinated solvents in groundwater
- The implemented remedies include:
 - Land Use Controls
 - Groundwater and soil gas monitoring
- Soil gas monitoring conducted in 2018 and evaluated for 2nd Five-Year Review

Site 24 – Former Dry Cleaning Facility



Site 24 is approximately 20 acres in the east-central portion of TI containing Building 99, which was used as both a laundry facility and, intermittently, as a dry cleaning facility from 1942 to 1977.



Site 24 – Former Dry Cleaning Facility (Continued)



- Goal is to support future open space/recreational use
- Environmental cleanup of: chlorinated solvents in groundwater
- The implemented remedies include:
 - Excavation
 - Active remediation
 - Land Use Controls
 - Groundwater and soil gas monitoring

Site 27 – Clipper Cove Skeet Range



Clipper Cove was used as a naval skeet range from 1979 to 1989. Naval personnel fired lead shot over the water as clay skeet targets were launched from the shoreline. The location of the shooters and the angles of the skeet targets' trajectory resulted in a fan-shaped, shot fall-zone that defines the site.



Site 27 – Clipper Cove Skeet Range



- Goal is to support future marina use while protecting wildlife
- Environmental cleanup of: lead shot to minimize ingestion by ecological receptors
- The implemented remedy includes:
 - Removal of top layer of sediment and lead shot
 - Placement of armor rock to limit access to buried shot by receptors
 - Land Use Controls (restrictions on marine activities)
 - Bathymetric surveys every 5 years in support of Five-Year Reviews

Site 30 – Daycare Center



Building 502, Daycare Center, is located south of the Treasure Island Elementary School and east of the corner of Avenue D and 11th Street. The site was subject to investigation prior to leasing to the City of San Francisco.

Site 30 – Daycare Center(Continued)



- Goal was to comply with requirements of DTSC's School Property Evaluation and Cleanup Division to allow for safe use as a child care facility
- Environmental cleanup of: dioxins in soil
- The implemented remedy includes:
 - Excavation, removal, and disposal of contaminated soil surrounding Building 502
 - Land Use Controls to restrict soil disturbance beneath concrete slab of Building 502 foundation

Schedule



June 2019: Interviews are ongoing

August 2019: Draft Five-Year Review available for public review and comment (website, public notice, repository)

August/September 2019: 30-day Public Comment Period

December 2019: Final Five-Year Review in repository; posting of Public Notice and Fact Sheet presenting findings

For more information on the process: EPA maintains a website with information about Five-Year Reviews at Federal facilities:

<https://www.epa.gov/fedfac/five-year-review-federal-facility-cleanups>

Questions?

