

Environmental Program Overview

Treasure Island Restoration Advisory Board Meeting

8 August 2023

Presentation Topics

- Site 12
- PFAS Program
 - (Per and Polyfluoralkyl Substances)
- Explanations of Significant Difference (ESD) &
 - Land Use Control Remedial Designs (LUC-RD)
- Five Year Review
- Petroleum Site YF3

Site 12

Site 12 Next Steps – Feasibility Study Addendum #2

- Feasibility Study (FS) Addendum (#2) will present an evaluation of additional potential remedies for Site 12
 - First remedy implemented per the 2017 Record of Decision
 - The FS Addendum #2 will evaluate alternatives for:
 - Remaining contamination within the Solid Waste Disposal Areas (SWDA's) & Central Rubbish Area (CRA) {aka landfill areas}
 - Radiological impacted areas across IR Site 12 (outside of 1400 series housing)
- Request Applicable or Relevant and Appropriate Requirements (ARARs)
 - What are ARARs? (next slide!)

Applicable or Relevant and Appropriate Requirements (ARARs)

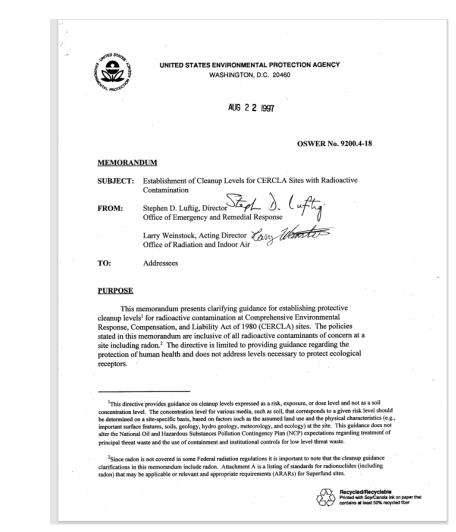
- Congress did not specify cleanup standards in CERCLA
 - (see CERCLA Title 42, Chapter 103, Subchapter I, Section 9621)
- Instead, Congress created a process whereby cleanup standards found in other federal and state laws and regulations are applied to a particular CERCLA action.
- This process is known as selection of "applicable or relevant and appropriate requirements" or "ARARs."
 - A law or regulation is "applicable" if the legal standard would apply independently of CERCLA.
 - Generally, a law or regulation is "relevant and appropriate" if it *can be applied* at the site *even though it is not otherwise legally required*.

FS Criteria

- Threshold Criteria
 - Overall protection of human health and the environment.
 - Compliance with ARARs.
- Balancing Criteria
 - Long-term Effectiveness and Permanence
 - Reduction in Toxicity, Mobility or Volume Through Treatment
 - Short-term Effectiveness
 - Implementablity (technical and administrative)
 - Cost
- Modifying Criteria
 - State Acceptance
 - Community Acceptance

Additional Cleanup Policy

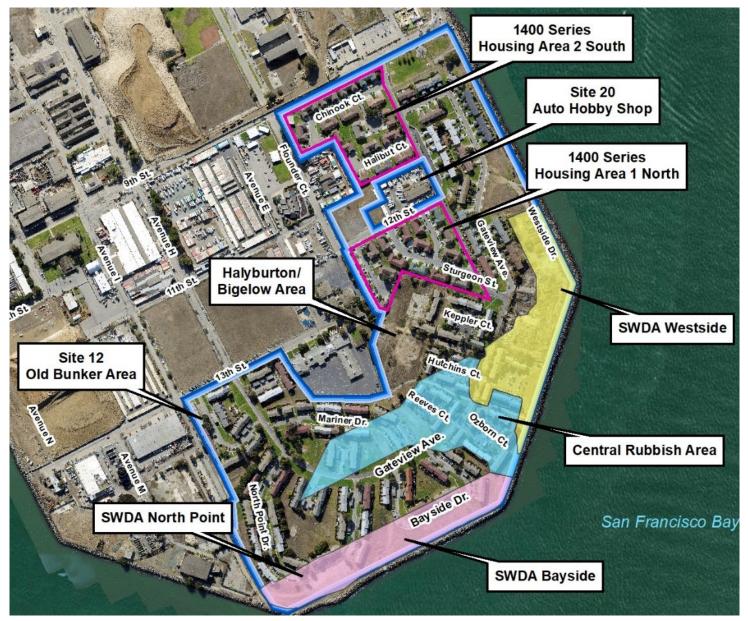
- EPA has made the policy decision that risks from radionuclide exposures at remedial sites should be estimated in the same manner as chemical contaminants
- Navy will continue to use the CERCLA process to evaluate radionuclides.
- As discussed in OSWER Directive 9200.4-18 (U.S. EPA 1997), cleanup levels for radioactive contamination at remedial sites should be established as they would for any chemical and the risks should be characterized in standard Agency risk language consistent with CERCLA guidance for remedial sites.



Site 12 Parts At a Glance

Site consists of several major components

- Landfill Areas
 - SWDAs and CRA*
- Areas outside of landfill areas
- 1400 Series Housing Area



Other Factors for Consideration

• Sea Level Rise (SLR)

- Navy will evaluate SLR during development of remedial alternatives
- Navy will continue to monitor remedy relative to SLR
 - Tied to the Five Year Review process

Reasonably Anticipated Future Reuse

- Navy's remedy is not redevelopment but (at BRAC bases) takes into account what the property may be used for after transfer
 - May include construction along shoreline and inland
 - May include geotechnical stabilization

Additional Work Ongoing in Support of FS Addendum #2

- Additional excavation in Site 12, (empty lot area)
 - Extend previous excavation to remove residual PAH/TPH-contaminated soil

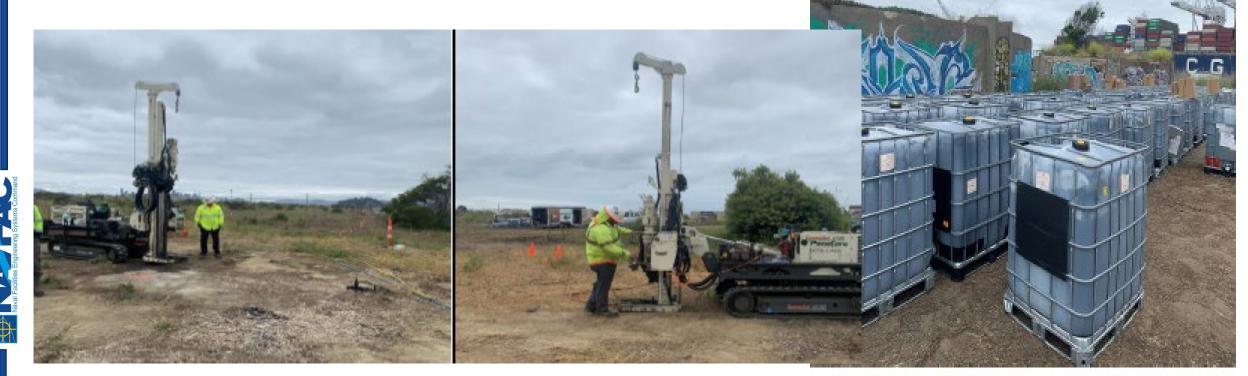


PFAS Program



Planned PFAS Activities

- Establish Background Area to Facilitate Nearshore Sampling
 - Sediment Porewater Surface Water
- IR Site 6 PFAS Reactive Barrier Pilot Test



Preliminary PFAS CERCLA Document Status

Reporting for the IR Site 6 PFAS RI

- Final Document Target Oct 2023
- Planning Underway for Supplemental RI Workplan
- Reporting for the AOI/IR (formerly called basewide) PFAS SI
 - Final Sept 2023
 - Planning for AOI/IR PFAS Preliminary RI
- Tracking Evolving Guidance/Policy
 - Screening Values
 - Risk Assessment Guidance
 - Laboratory Analysis



Explanations of Significant Difference (ESD) Land Use Controls Remedial Design (LUC RD)

Site 24 – Dry Cleaning Facility

• ESD

VELVIN

- ESD revised chlorinated solvent soil gas RGs for residential and commercial/industrial workers
- Final issued April 2023
- LUC RD
 - Collect additional soil gas monitoring data (July 2023) determine if plume extent is bounded
 - Revise area requiring institutional controls if needed (ARIC)
 - Final spring 2024

Site 6 – Fire Fighting Training Facility

• ESD

- ROD/Final RAP identified arsenic in groundwater for the future construction worker
- Proposed RG revisions from 250 ug/l to 35 ug/l
- No new ARARs identified
- Final Oct 2023
- LUC RD
 - Review recent groundwater monitoring data determine if plume extent is bounded
 - If not, expand monitoring well network to delineate new RG
 - Revise area requiring institutional controls (ARIC)
 - Draft Nov 2023

Site 12 – Gateview Ave Petroleum Area

• ESD

- ROD/Final RAP identified arsenic in groundwater as contaminant for off-site aquatic receptors
- Proposed RG establishment of 35 ug/l for construction worker scenario
- No new ARARs identified
- Final Nov 2023

• LUC RD

- Establish an ARIC
- Implement contaminated groundwater management plan to be followed during construction activities
- Evaluate land use controls as needed
- Draft Dec 2023

Treasure Island Five-Year Review



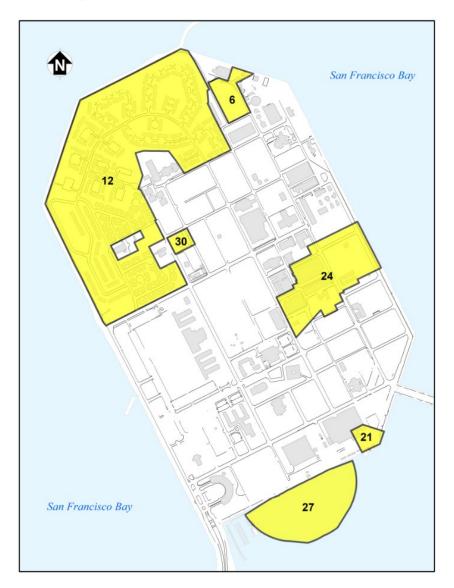
Focus of the Five Year Review

- To evaluate the implementation and performance of the remedy for subject sites
 - Determine whether the remedy is, or will be protective of human health and the environment.



Five Year Review Sites (2nd & 3rd FYR)

- Six sites will be evaluated for the 3rd FYR:
 - IR Sites 6, 12*, 21, 24, 27, and 30
 - *For Site 12, the evaluation will include the remedy for groundwater within the Gateview Arsenic/TPH area, as well as the implemented soil remedy.



Five Year Review Process

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Step	Purpose
Document Review	 Review of records of decision, remedial action designs, work plans, completion and monitoring reports, and annual site inspection reports Confirm remedial action is working as designed and/or how the remedial action is currently functioning
Site Inspection	 Document current site conditions to evaluate visual evidence of the protectiveness of the remedies at each site
Site Interviews	 Complete interviews of cross-section stakeholders to identify any problems or concerns with the remedies that remain to be addressed Stakeholders include: DTSC, Waterboard, TIDA, residents, and local community members
Protectiveness Statement	 Establishing if the remedy for each site is protective of human health and the environment

3rd FYR Schedule

- September 2023 Contract in Place
- 2024 Develop Internal Draft*
- Early 2025 Draft Completed
- May 2025 Concurrence on RTCs and RLSO

*Any new rules or regulations should be provided by early 2024



Groundwater/Soil Gas Monitoring



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Groundwater and Soil Gas Monitoring

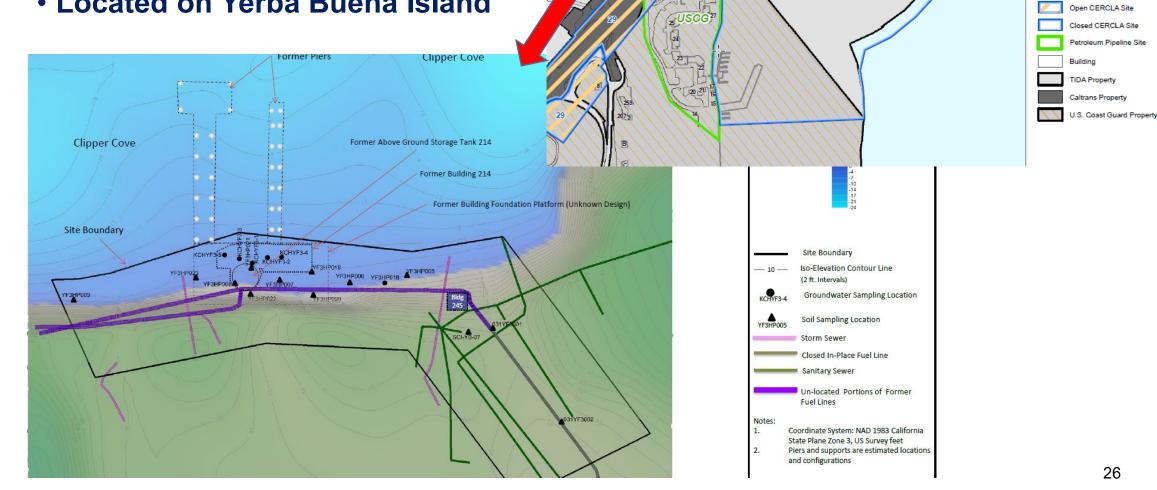
- Ongoing Monitoring at 4 sites
 - Groundwater Sites 6, 12, and 24
 - Soil Gas Sites 21 and 24
- 2022 Monitoring Report Draft October 2023
 - Delays due to laboratory validation backlog

Petroleum Site YF3



YF3

- Only remaining open Navy petroleum pipeline site
- Located on Yerba Buena Island

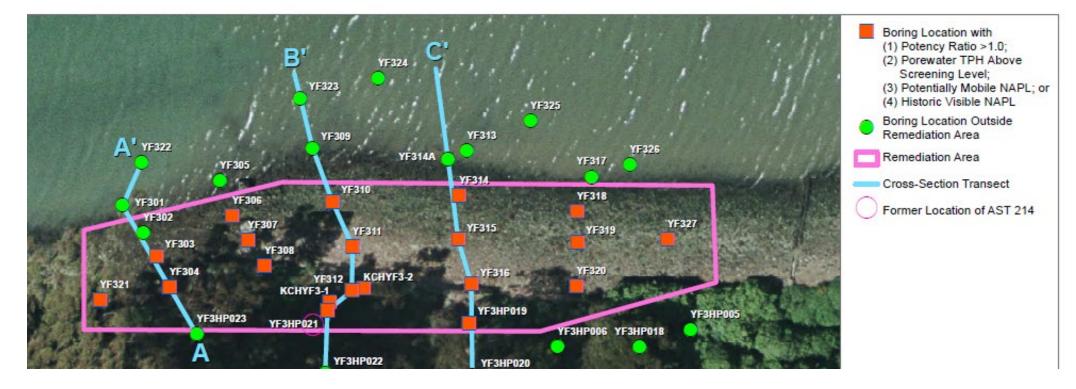


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Area of Interest

Additional Data Collection

- Land surveying and a geophysical study to determine the physical boundaries, including bathymetric and topographical delineation, and to further characterize the depth to bedrock.
- Soil boring and porewater assessments to further define the horizontal and vertical extent of residual petroleum contamination
- Data will be collected and analyzed to supplement the existing site



YF3 Path Forward

YF3 Datagap Workplan

- July 2024
- YF3 Datagap Evaluation Report
 - Oct 2025
- YF3 NEPA Evaluation
 - Oct 2026
- YF3 CAP
 - Oct 2027
- YF3 CAP Post Construction Summary Report
 - Dec 2028

Questions?

