



# Former Titan 1-A Missile Facility

**USACE Informational Public Meeting**

Formerly Used Defense Sites (FUDS) Project

FUDS Project #J09CA1108-01

*January 31, 2024*



**U.S. ARMY**



**US Army Corps  
of Engineers®**

# Agenda

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**Open House:** 4:00 – 5:00 p.m. and 5:30 – 6:00 p.m.

**Presentation:** 5:00 – 5:30 p.m.

- Introductions and agenda
- Site history and status
- Environmental work planned for 2024
- Schedule
- Public involvement
- Restoration Advisory Board
- For more information
- Q&A



# Former Titan 1-A Missile Facility

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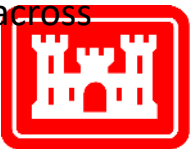
- Facility was completed in 1962 and dismantled in 1968
- Consisted of three 160-foot-deep missile silos, with underground and above ground features
- Trichloroethene (TCE) is present in soil vapor and groundwater at the Site
  - TCE is widely used as an industrial solvent
  - Common in urban areas
  - Was found in many household products. Today, only used in a few household products.



# History

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- **1962 – 1965:** Missile facility operational
- **1968:** Placer County acquired a parcel of the complex. Adjacent parcels acquired by private owners since 1968
- **1991:** Presence of TCE discovered southwest of the site during groundwater sampling
- **1994:** USACE authorized to begin remedial investigations of soil, soil vapor, and groundwater through the FUDS program
- **2001 - 2004:** USACE conducted small scale groundwater extraction and treatment system; approx. 10 pounds of TCE removed from groundwater
- **2002:** Soil vapor extraction test performed at 4 wells to test soil permeability/vacuum radius of influence
- **2005:** Performed two bench scale studies testing chemical oxidation and enhanced bioremediation effectiveness on site contamination
- **2007 - 2008:** Feasibility Study Report complete; addendum adds remedial alternative for consideration
- **2009:** Work stopped to investigate other potential sources of TCE contamination
- **2018:** Restart remedial investigation activities
- **2019:** 19 new groundwater monitoring wells and 24 new soil vapor probes installed; began collecting data quarterly to assess status across varying conditions
- **2023:** Informational public meeting and approval of Restoration Advisory Board (RAB) formation

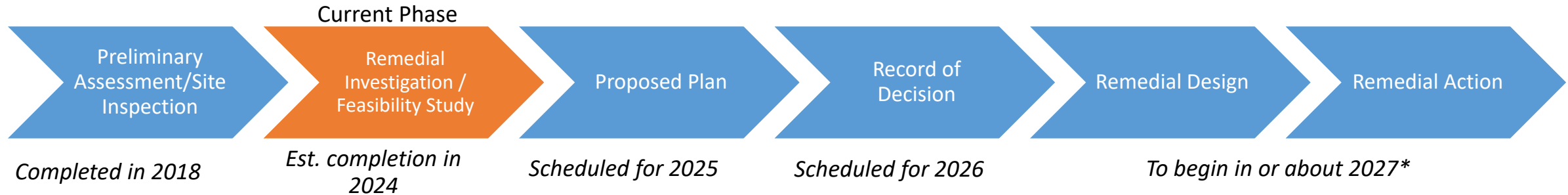


# Cleanup Process

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FUDS projects must proceed in accordance with the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), the Defense Environmental Restoration Program (DERP) Manual, and ER 200-3-1 FUDS Program Policy.

## Key Milestones in CERCLA Process



\*Too early to determine how long remediation will take.



# Remedial Investigation Process for 2024

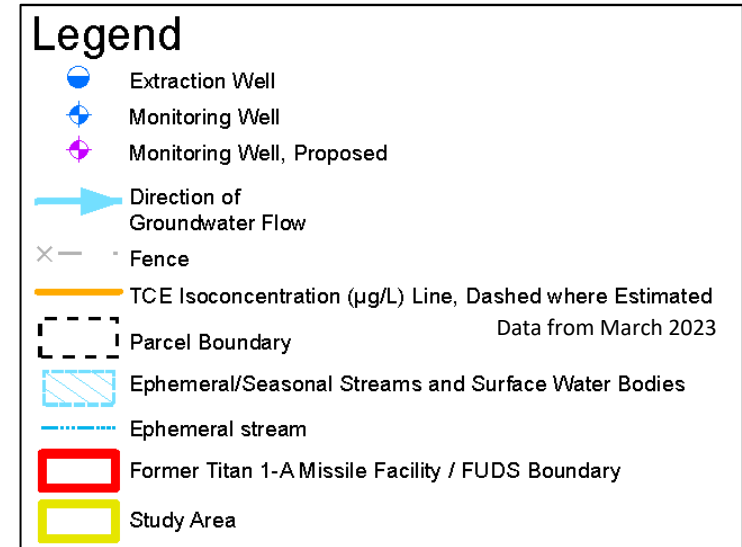
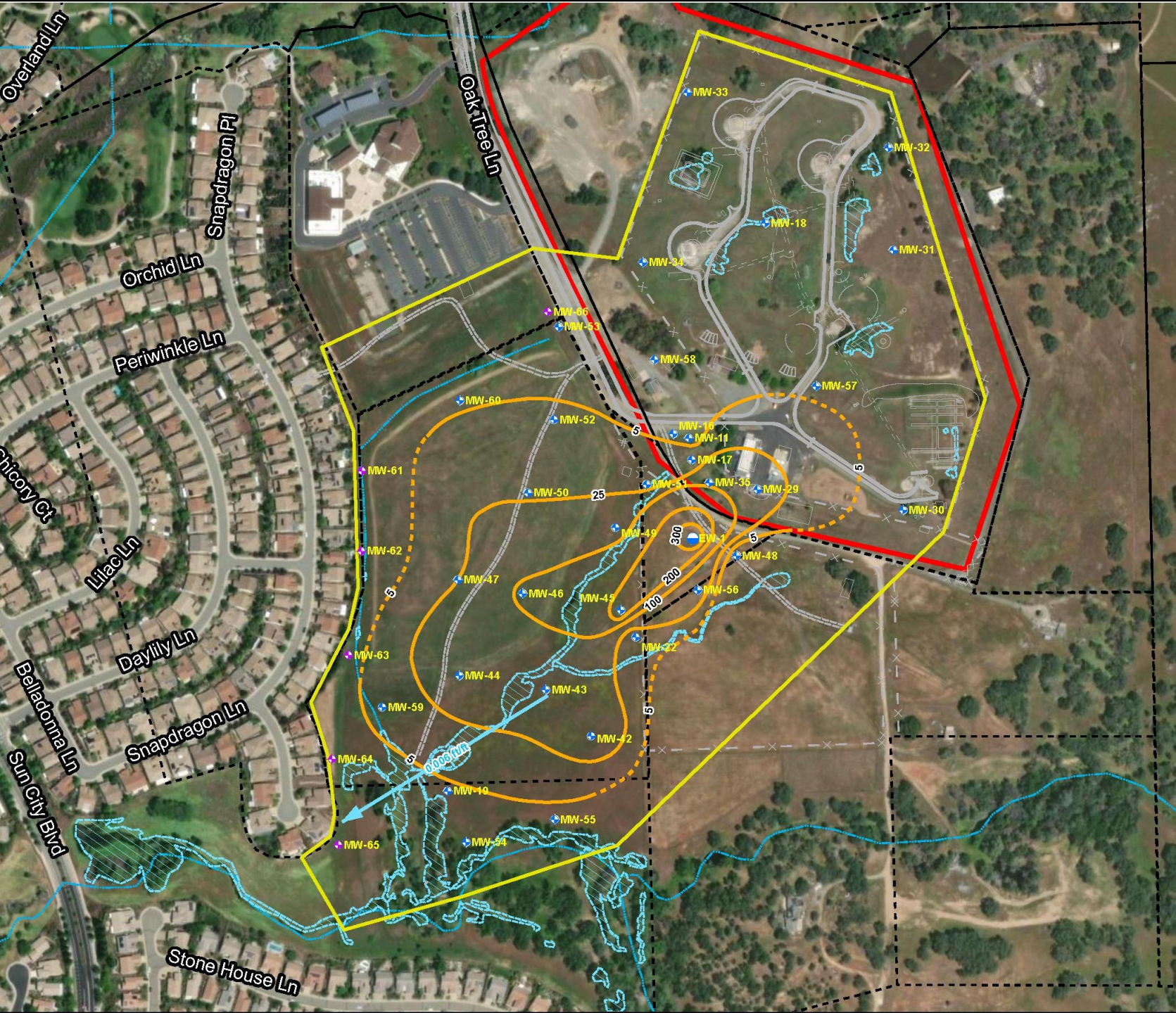
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- Finalize selection of Restoration Advisory Board (RAB) members; hold inaugural meeting in March 2024
- Finalize Sampling Work Plan
- Install new soil vapor probes and groundwater monitoring wells and collect samples semi-annually in 2024 to better define the lateral and vertical extent of contamination
- Using this data, develop Remedial Action Objectives, which define the conditions to achieve Response Complete
- Identify and evaluate potential technologies and mechanisms to meet Remedial Action objectives
- Finalize Treatability Study Work Plan and conduct field investigation
- Finalize Remedial Investigation Report and Feasibility Study



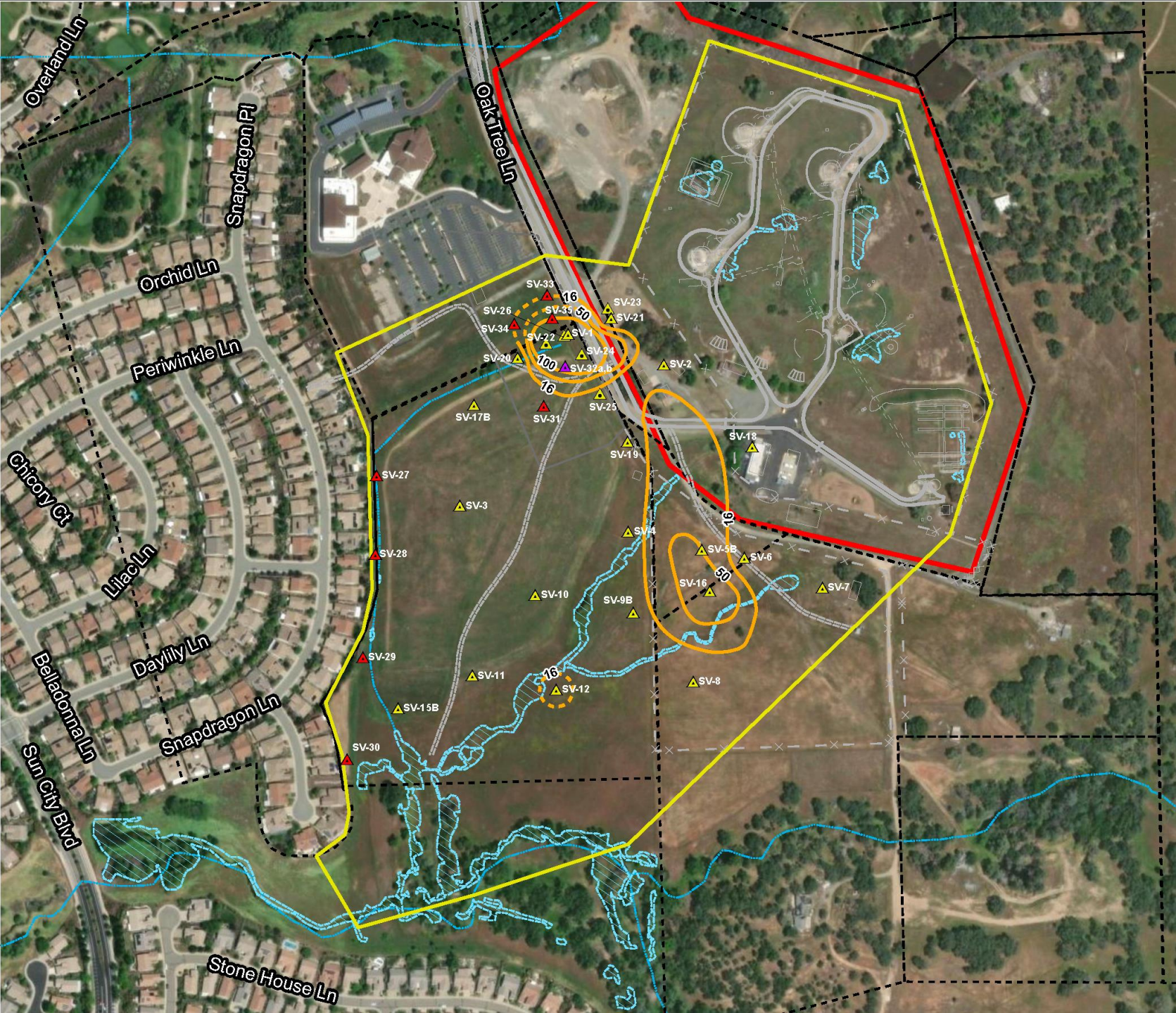


# Proposed 2024 Groundwater Sampling Locations





# Proposed 2024 Soil Vapor Sampling Locations



## Legend

- ▲ Soil Vapor Probe
- ▲ Soil Vapor Probe, Proposed
- ▲ Soil Vapor Probe, Proposed nested
- × Fence
- TCE Isoconcentration line ( $\mu\text{g}/\text{m}^3$ ), dashed where inferred  
Data from March 2023
- Parcel Boundary
- ▨ Ephemeral/Seasonal Streams and Surface Water Bodies
- Ephemeral stream
- ▭ Former Titan 1-A Missile Facility / FUDS Boundary
- ▭ Study Area



# 2024 Schedule

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FUDS projects must proceed in accordance with the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), the Defense Environmental Restoration Program (DERP) Manual, and ER 200-3-1 FUDS Program Policy.

Activity	Date
Public Meeting	January 2024
RAB Meeting	March 2024 and quarterly thereafter
Finalize Sampling Work Plan	April 2024
Install soil vapor probes/groundwater monitoring wells and collect semi-annual samples	May 2024
Prepare Semi-Annual Sampling Report	July 2024
Finalize Remedial Investigation Report	August 2024
Finalize Treatability Study Work Plan	September 2024
Finalize Feasibility Study	October 2024
Collect semi-annual soil vapor/groundwater samples and conduct treatability study	October 2024
Prepare Semi-Annual Sampling Report	November 2024
Public Meeting	December 2024



# Public Involvement: *Community Outreach*

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***Community involvement is crucial to a successful project***

- Public notices in *Lincoln New Messenger*
- Public meetings
- Information fact sheets
- Public comment period on Proposed Plan
- Issuing Response to Comments to all public comments
- Communications from RAB
- Quarterly project updates on website





# Public Involvement: *Restoration Advisory Board*

- USACE is establishing a Restoration Advisory Board (RAB) for this project
  - Up to 15 members representing various aspects of the community
  - Responsible for providing community input on behalf of the larger community
  - Asked to share information about the project with community
- RAB selection committee made up of USACE, Central Valley Water Board and Sun City Lincoln Hills Community Association staff who will select community members from the 52 individuals that applied
- Selection criteria:
  - Represent various viewpoints of the community
  - Ability to commit to RAB process



The first RAB meeting will take place in **March 2024** and meetings will continue on a quarterly basis.



# Public Involvement: *More Information*

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*Scan the QR code above to visit  
the project webpage*

- **Project Webpage:** [www.Titan1ACleanup.com](http://www.Titan1ACleanup.com) has the project status, FAQs, and all technical reports and documents.
- **Email Distribution List:** Sign in sheets for today's meeting include a section to opt in for future project updates.
- **Contact Information:**
  - USACE Public Affairs Office: 916-557-5100 | [spk-pao@usace.army.mil](mailto:spk-pao@usace.army.mil)
  - USACE SPK FUDS Program: [spk\\_fuds@usace.army.mil](mailto:spk_fuds@usace.army.mil)

