



NCTF-Red Hill Directors

SAFE. DELIBERATE. ENGAGED. COMMITTED.



Sherri Eng (Richmond, VA)

NCTF-RH Title/Duties: Executive Director

Sherri attended the University of Mary Washington in Fredericksburg, VA and obtained a B.S. in Chemistry. She started her career as a State Regulator working environmental issues and has over 30 years of experience working for the Department of the Navy at various locations throughout the United States.



Milt Washington, CAPT, U.S. Navy (New Orleans, LA)

NCTF-RH Title/Duties: Operations Officer

Captain Washington earned a BS in Mechanical Engineering from Southern University, Baton Rouge, LA & also holds a Master of Arts in Defense Strategic Studies from the Naval War College, Providence, RI. Washington completed two tours of duty in support of Iraqi Freedom. His last operational tour was as Commander of the 7th Naval Construction Regiment. He is a registered Professional Engineer in California.



Steve Stasick, CAPT, U.S. Navy (Cleveland, OH)

NCTF-RH Title/Duties: Facilities Director

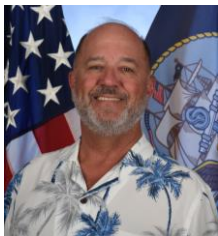
Captain Stasick earned a Bachelor of Civil Engineering degree from Cleveland State University and a Master's of Science in Civil and Environmental Engineering from Massachusetts Institute of Technology. He is also a graduate of the University of Pennsylvania's Wharton Executive Development Program. He has served as a Commanding Officer for operational and engineering commands. His most recent tour was with Joint Task Force-Red Hill as the Facility, Repair and Maintenance Director.



Meagan Ostrem (Ka'a'awa, HI)

NCTF-RH Title/Duties: Strategic Engagement

A graduate of Kahuku High School and Oregon State University with a degree in environmental science. Meagan's career has included private environmental consulting supporting complex infrastructure engineering projects and working with the Department of Defense across the Pacific. She is passionate about environmental conservation and is dedicated to fostering meaningful relationships between the Hawai'i community and military organizations.



Scott Malcom (Austin, TX)

NCTF-RH Title/Duties: Director of Public Affairs

Scott spent a lifetime in the Army, serving as a helicopter pilot, logistician and troop commander before earning a Master's Degree in Technical Communication and becoming a military public affairs officer. Scott and his family are new to Hawai'i and enjoy learning about the culture and experiencing its beauty up close and personally.



Milton Johnston, MPA, P. G. (Chesapeake, VA)

NCTF-RH Title/Duties: Environmental Director

Milt is a Professional Geologist who brings decades of state environmental regulatory experience to NCTF from his position with Virginia DEQ. He recently served as the NAVFAC HQ's waste management SME for the Red Hill Defuel and Closure Planning efforts and provides compliance oversight of all Navy Hazardous Waste Management activities worldwide.

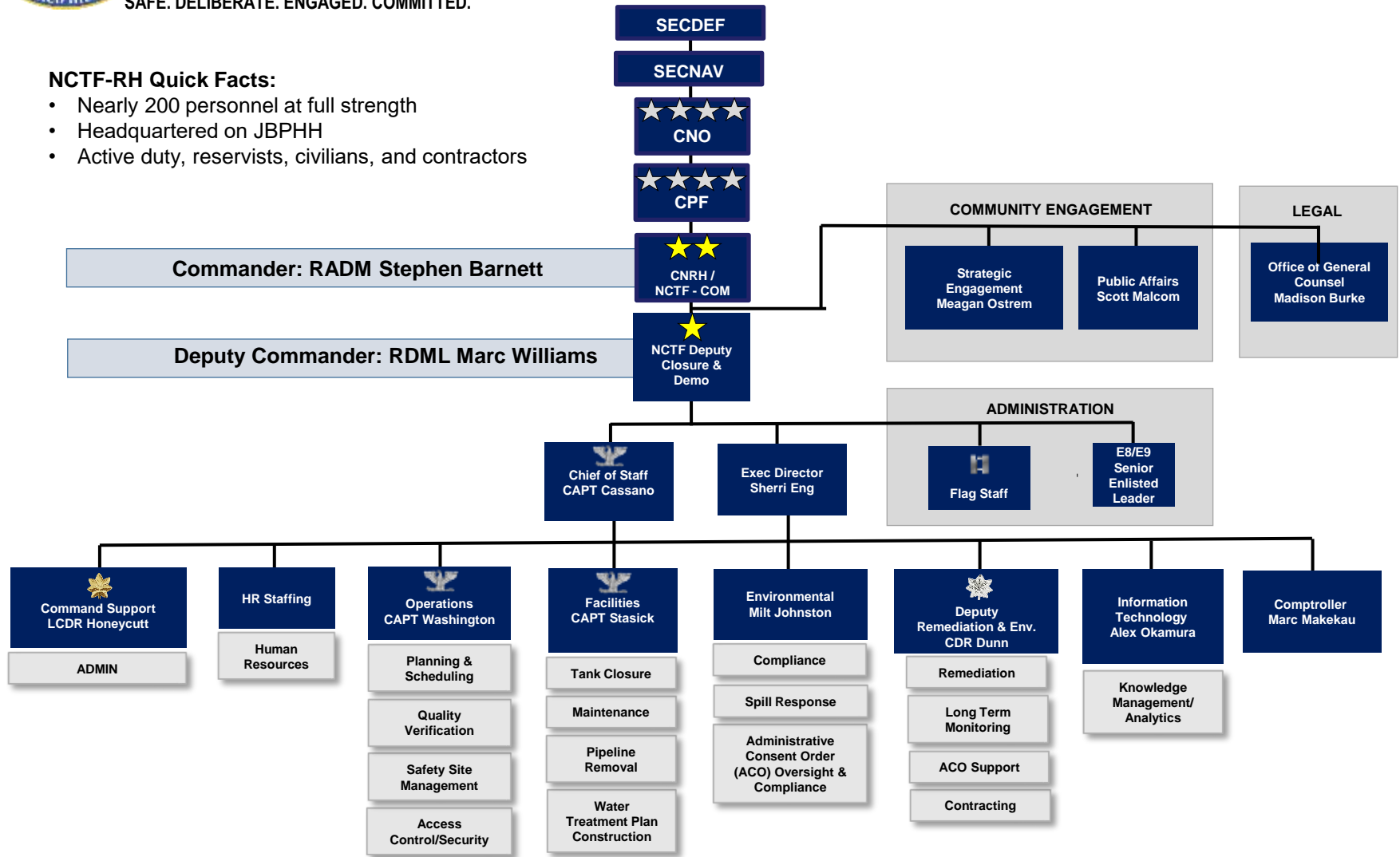


NCTF-RH Organizational Structure and Mission

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NCTF-RH Quick Facts:

- Nearly 200 personnel at full strength
- Headquartered on JBPHH
- Active duty, reservists, civilians, and contractors





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AFFF Removal

NCTF-RH safely removed over 1,000 gallons of AFFF concentrate from the fire suppression system from between April 8th and April 19th, 2024.



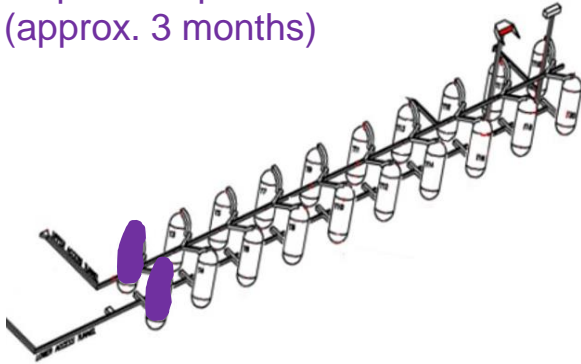
THIS ELIMINATES A MAJOR THREAT TO THE AQUIFER



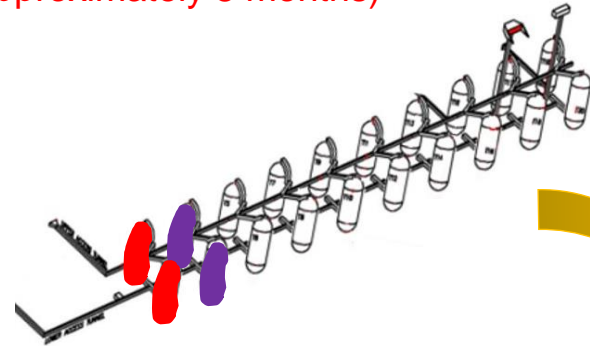
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Tank Cleaning Progression

- Step 1: Preparation (approx. 3 months)



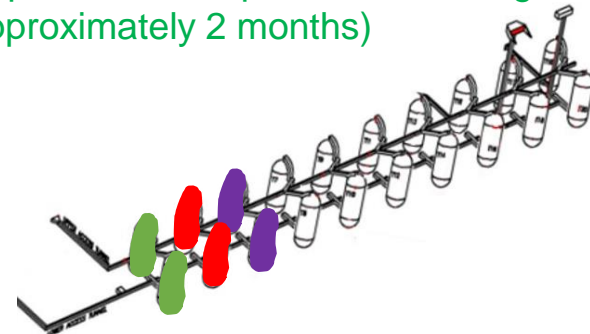
- Next set begin Step 1
- Step 2: first set - install cleaning infrastructure (approximately 3 months)



- Next set begin step 1
- Third set begin step 2
- Second set begin step 3
- Step 4: first set - demobilization (approximately 2 months)



- Next set begin step 1
- Second set begin step 2
- Step 3: first set – pressure washing (approximately 2 months)



Notional Diagram Layout – Not reflective of actual tank order

CLEANING AT THE SPEED OF SAFETY

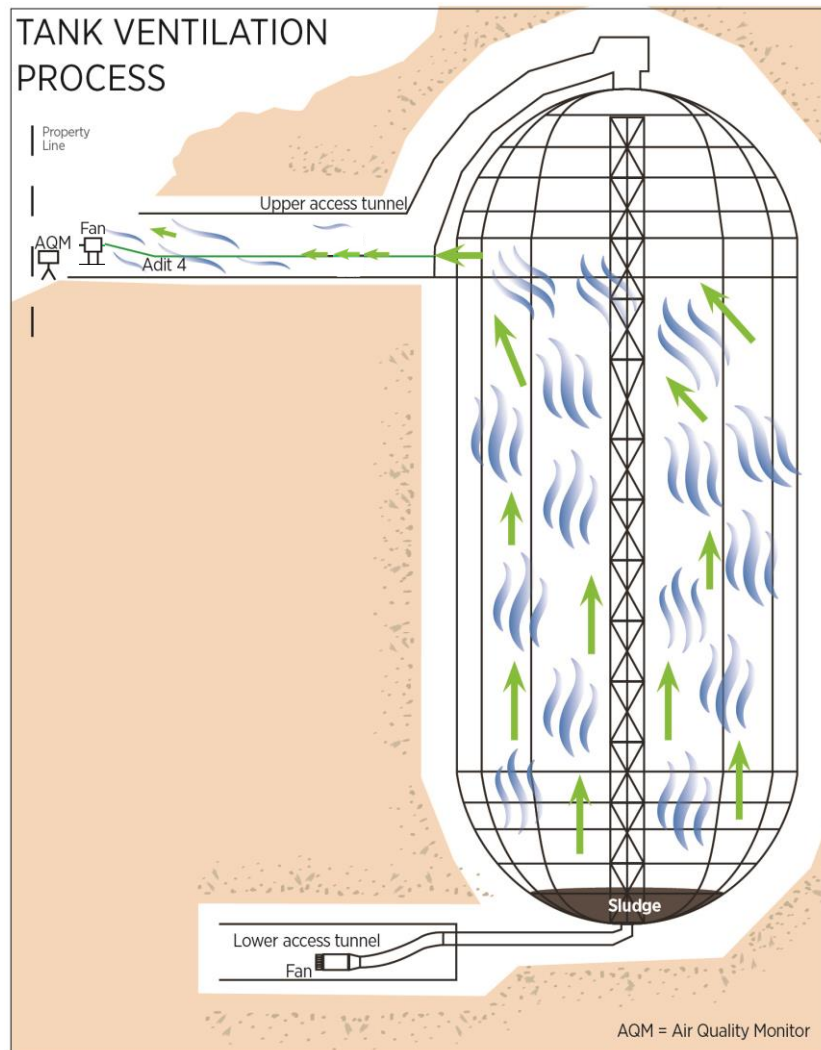


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Tank Ventilation

Safety of our Employees and the public is paramount: workers will never enter unventilated tanks

- Part of any underground storage tank operations – even gas stations
- Previously used process (Clean, Inspect, Repair evolution) / essential to safety
- Ventilation Timeline ~10 days per tank



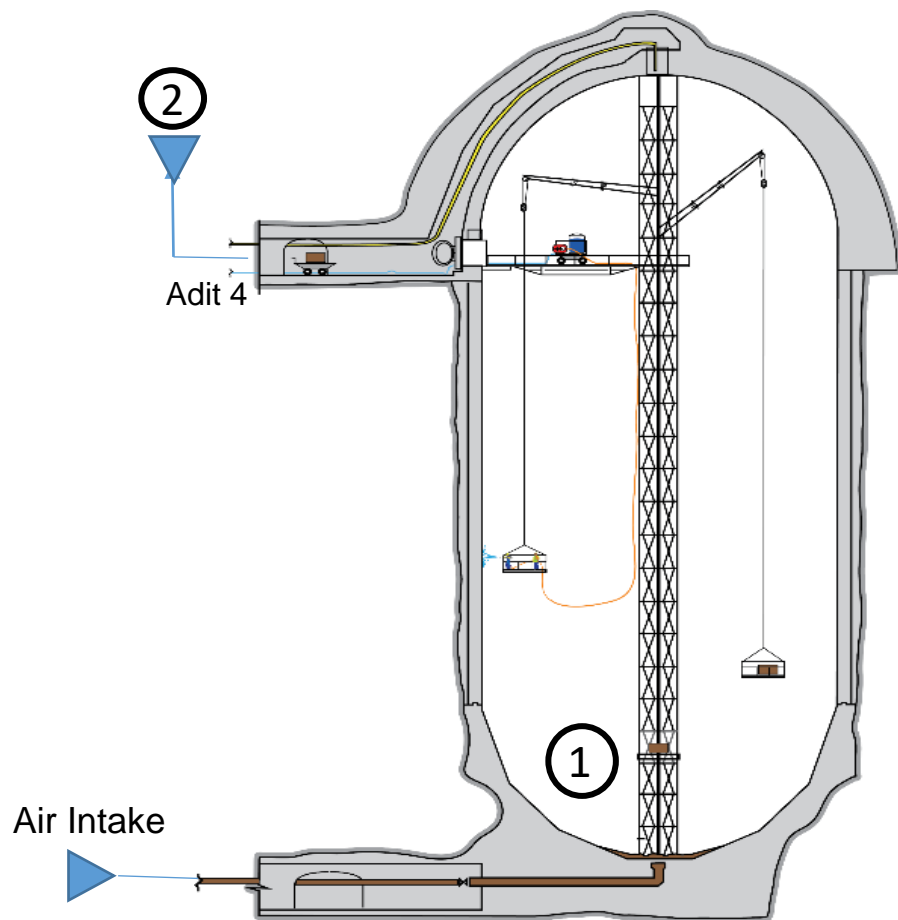
VENTILATION IS A REQUIRED, PROVEN AND SAFE PROCESS



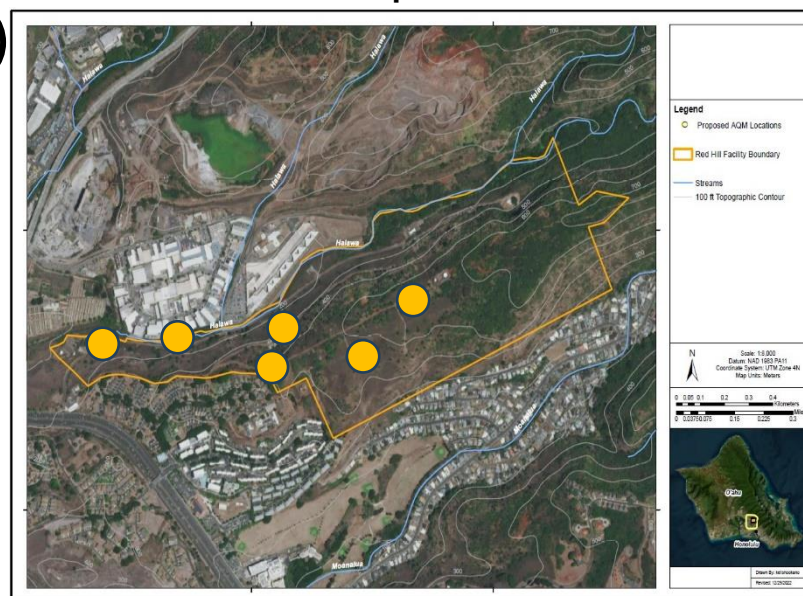
Air Quality Monitoring

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Navy will conduct air quality monitoring to ensure protection of workers and public.



Proposed



Air Monitoring Points

- 1 Workers inside tank
- 2 Exhaust Vent
- 3 Facility's surrounding areas

NAVY IS COLLABORATING WITH HAWAII DOH TO IMPLEMENT AIR QUALITY MONITORING



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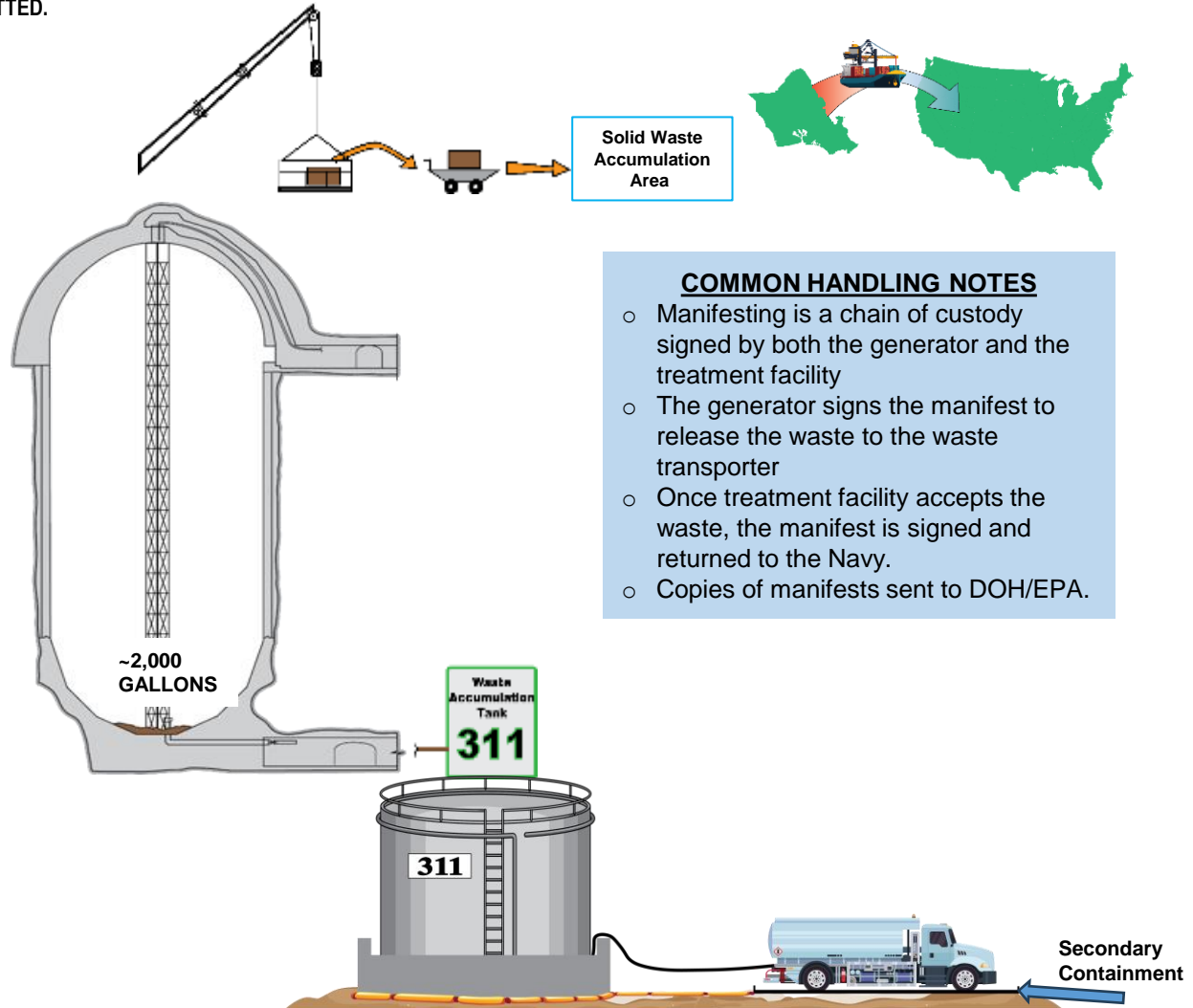
Sludge Waste Disposal Process

FLOWABLE SLUDGE PROCESS

- Tank flooded and discharged down the FOR Line to Tank 311.
- Adit - 3 Tank 311 is the waste accumulation area. Tank will be labeled with contents and inspected weekly.
- Waste to be sent to an on-island oil recovery facility if feasible, if not, waste will be sent off-island.
- Contractor will separate oil from wastewater at a pre-treatment facility.
- Recovered oil is sold for energy recovery/re-refining.

SOLID SLUDGE PROCESS

- After tank ventilation, solid sludge is shoveled into 55-gallon drums that are then sealed.
- Containers are lifted out of tank & placed on carts to move waste to an accumulation area.
- The 55-gallon drums are loaded onto a truck, taken to port, then loaded on a ship.
- Truck and ship are registered waste transporters.
- Waste to be sent to the continental U.S. for ultimate disposal.



COMMON HANDLING NOTES

- Manifesting is a chain of custody signed by both the generator and the treatment facility
- The generator signs the manifest to release the waste to the waste transporter
- Once treatment facility accepts the waste, the manifest is signed and returned to the Navy.
- Copies of manifests sent to DOH/EPA.

NAVY WILL ENSURE SAFE REMOVAL AND DISPOSAL



Tank Cleaning

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Step 1 Preparation (Approximately 3 Months)

- Isolate Tank and Disconnect Piping
- Install Tank Ventilation Equipment
- Inject Water into Tank to Soften Sludge
- Remove Flowable Sludge
- Begin Tank Ventilation using Forced Air

Step 2 Install Cleaning Infrastructure/Remove Solid Sludge (Approximately 3 Months)

- Inspect and Repair Central Tower and Catwalk
- Install Center Tower Elevator
- Load Test Central Tower and Catwalk
- Remove Solid Sludge

Step 3 Pressure Washing (Approximately 2 Months)

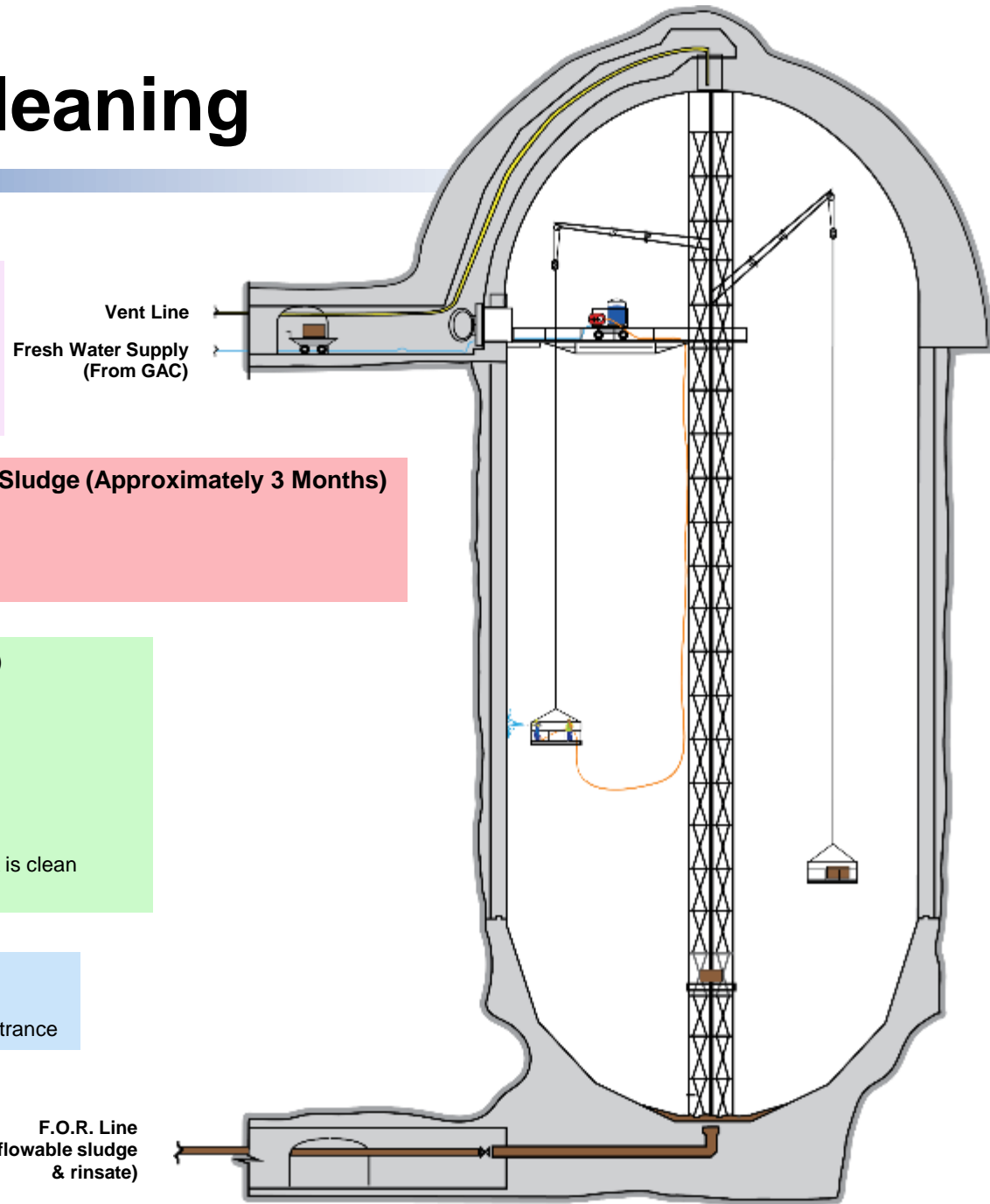
- Set-up Pressure Washing System
- Pressure Wash w/ 3% Simple Green
- Rinse
- Continuously Remove Rinsate
- Dry Tank Interior
- Validate Tank Cleanliness
- Submit Tank Cleaning Report
- Receive Regulatory Agency Final Approval that tank is clean

Step 4 De-Mobilization (Approximately 2 Months)

- Remove Booms and Infrastructure
- Install Permanent Lockable Steel Hatch at 8-foot entrance



F.O.R. Line
(flowable sludge
& rinsate)





Layers of Environmental Protection

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Navy will ensure the protection of the aquifer during tank cleaning

SANDBAG PLACEMENT/BARRIERS

- Absorbs and Channels Potential Overflow.
- Redirects Potential Spills Away From Drains to Designated Collection Points
- Robust Containment System to Halt Accidental Spillage

WATCH TEAM

- 24 Hour Surveillance via Roving Watchstanders
- Tailored Training for Hazard Detection, Rapid Response and Fed Fire Dept Coordination



SLUDGE REMOVAL

- Tank 311 has permanent secondary containment, and all tanker trucks will be parked inside pop-up containment during liquid transfer.
- Tanker truck is a registered waste transporter

DEDICATED SPILL RESPONSE

- Red Hill response staff
- Spill kits located throughout Facility

AQUIFER PROTECTION

- French Drain Sealing
- Groundwater Monitoring Well Sealing
- Soil Vapor Points and Vault Sealing
- Pump Station Additive Barriers

Fuel Oil Reclamation Line

- Daily rover inspection
- Integrity Testing
- Spill kits will be on site for emergency response.

SPILL RESPONSE DRILLS

- Navy-Led Drills Aligned with Facility Spill Response Plan
- Realistic Spill Scenarios for Optimal Readiness
- Regulator (EPA & DOH) Supervision for Quality Assurance



DELIBERATE PREVENTION, PROTECTION AND PREPARATION



Red Hill Shaft Flow Optimization & Beneficial Reuse

Flow Optimization

Navy has reduced GAC pumping from ~4.2MGD to ~1.8MGD, a reduction of ~60%



Beneficial Reuse

Navy has installed a truck fill station at Adit 3, utilizing post-GAC treated water for tank cleaning effort as a beneficial reuse.



Halawa Stream Discharge



Truck Fill Station

NAVY CONTINUES TO EVALUATE OTHER POTENTIAL BENEFICIAL REUSES



Community Outreach & Communications

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