

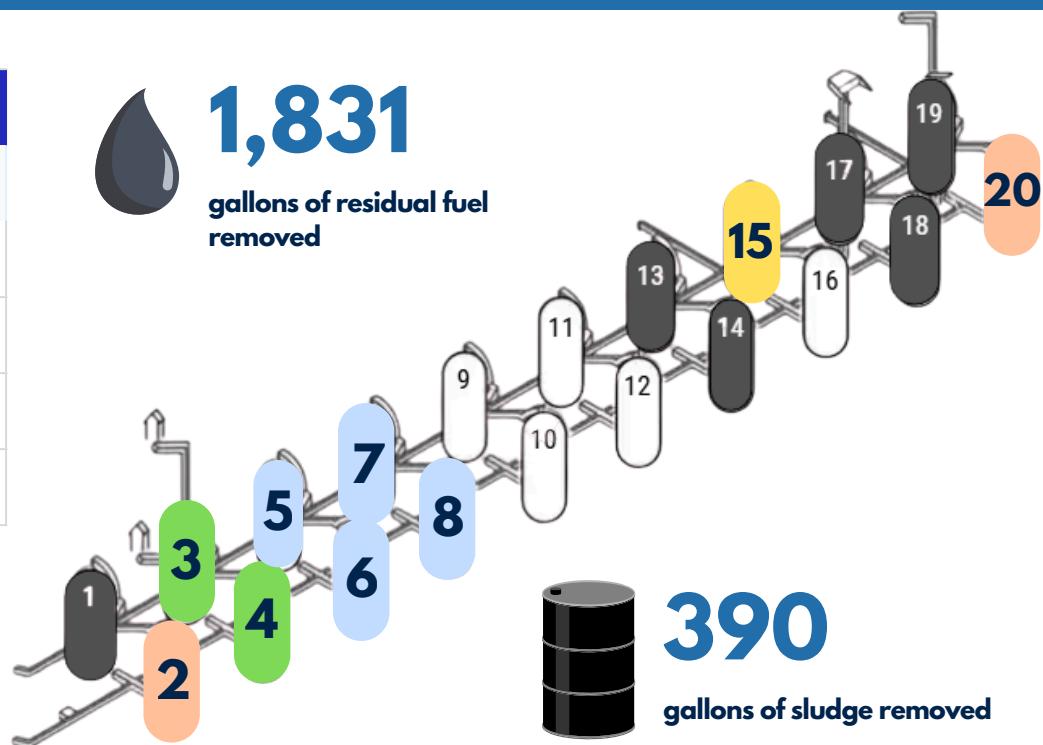


# Navy Closure Task Force-Red Hill Operations Dashboard

## TANK CLEANING

Status	
Step	Tank(s)
1	15
2	2, 20
3	3, 4
4	5, 6, 7, 8

\*Gray tanks were empty and not in service before defueling



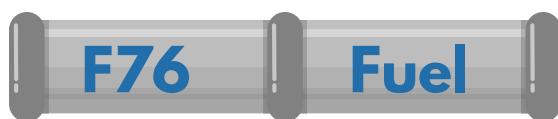
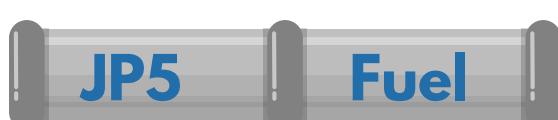
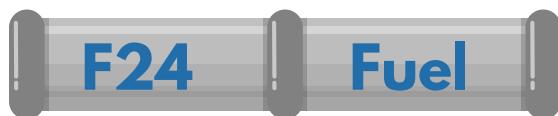
## Tank Cleaning Steps

Step 1: Preparation Approximately 2-3 months	<ul style="list-style-type: none"><li>Isolate tank and disconnect piping</li><li>Install tank ventilation equipment</li><li>Inject water to soften sludge and remove flowable sludge</li><li>Forced air degassing of the tank</li></ul>
Step 2: Solid Sludge Removal Approximately: 2-3 months	<ul style="list-style-type: none"><li>Structural inspection and repairs/modifications</li><li>Remove solid sludge</li><li>Install and load test booms and baskets</li></ul>
Step 3: Pressure Washing Approximately: 1-2 months	<ul style="list-style-type: none"><li>Pressure wash with up to 3% Simple Green solution</li><li>Contractor quality control and Government quality assurance</li><li>Third party independent cleanliness validation in accordance with approved plan</li><li>Submit reports for EPA and DOH concurrence of cleanliness</li></ul>
Step 4: Tank Decommissioning Approximately: 1-2 months	<ul style="list-style-type: none"><li>Demobilize contractor equipment</li><li>Secure the manways with lockable hatches</li><li>Prepare for post closure monitoring</li><li>Submit closure report to EPA and DOH for approval</li></ul>



# Navy Closure Task Force-Red Hill Operations Dashboard

## PIPELINE REMOVAL



2,512 total gallons of residual fuel removed as part of pipeline cleaning efforts

## Pipeline Removal Process

01



### Preparation

- Install supplemental utilities
- Install train engines and cars
- Environmental Protection Plan approved
- Multiple Work Plans approved
- Demolition Plan approved
- Abatement Plans approved
- Asbestos abatement
- Work plans for demolition and environmental protection
- Conduct spill response exercises

02



### Drain & Clean

- Remove valves
- Drain Residual fuel
- Cable pigging\*
- Air pigging\*

\*Pigging: Process of cleaning or inspecting pipelines.

03



### Cut & Remove

- Cut 9' pipe sections
- Lower pipe sections
- Transport to Adit 2 for staging

04



### Transport & Recycle

- Transport pipes to JBPHH staging area
- Transport to the U.S. mainland
- Final disposition