



Naval Weapons Station Yorktown Environmental Restoration Program Update

**Naval Weapons Station Yorktown
Restoration Advisory Board Meeting
June 1, 2022**

Agenda



- **Environmental Restoration Program (ERP) Overview**
- **Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Process**
- **Update on select sites:**
 - **Site 1 – Dudley Road Landfill**
 - **Site 3 – Group 16 Magazine Landfill**
 - **Site 12 – Barracks Road Landfill**
 - **Site 22 – Burn Pad**
 - **Site 24 – Aviation Field**
 - **Site 25 – Building 373 Rocket Plant**
 - **Site 33 – Sand Blasting Grit Area**
 - **Basewide PFAS**

Environmental Restoration Program Overview

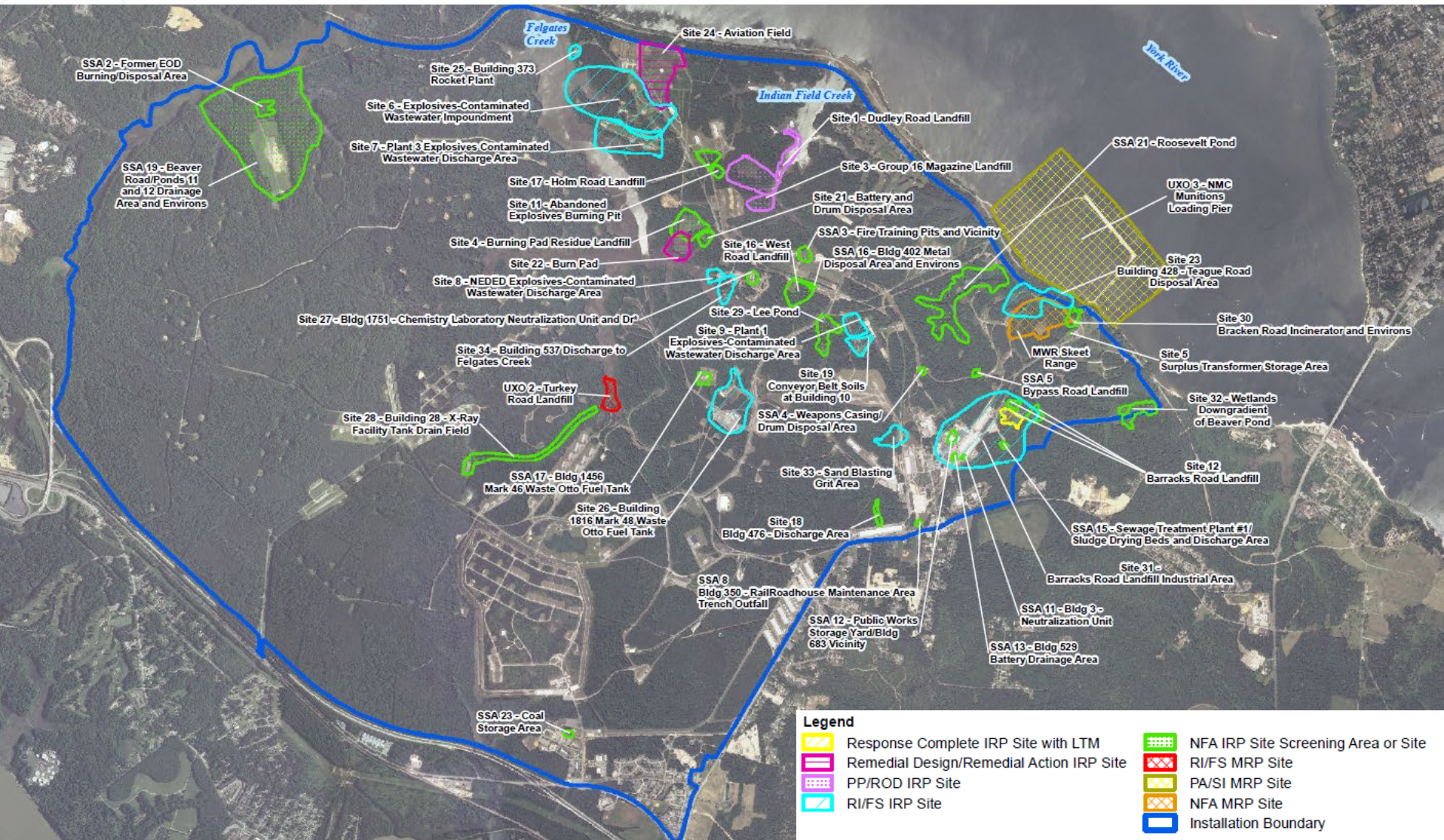


32 ERP Sites have been identified

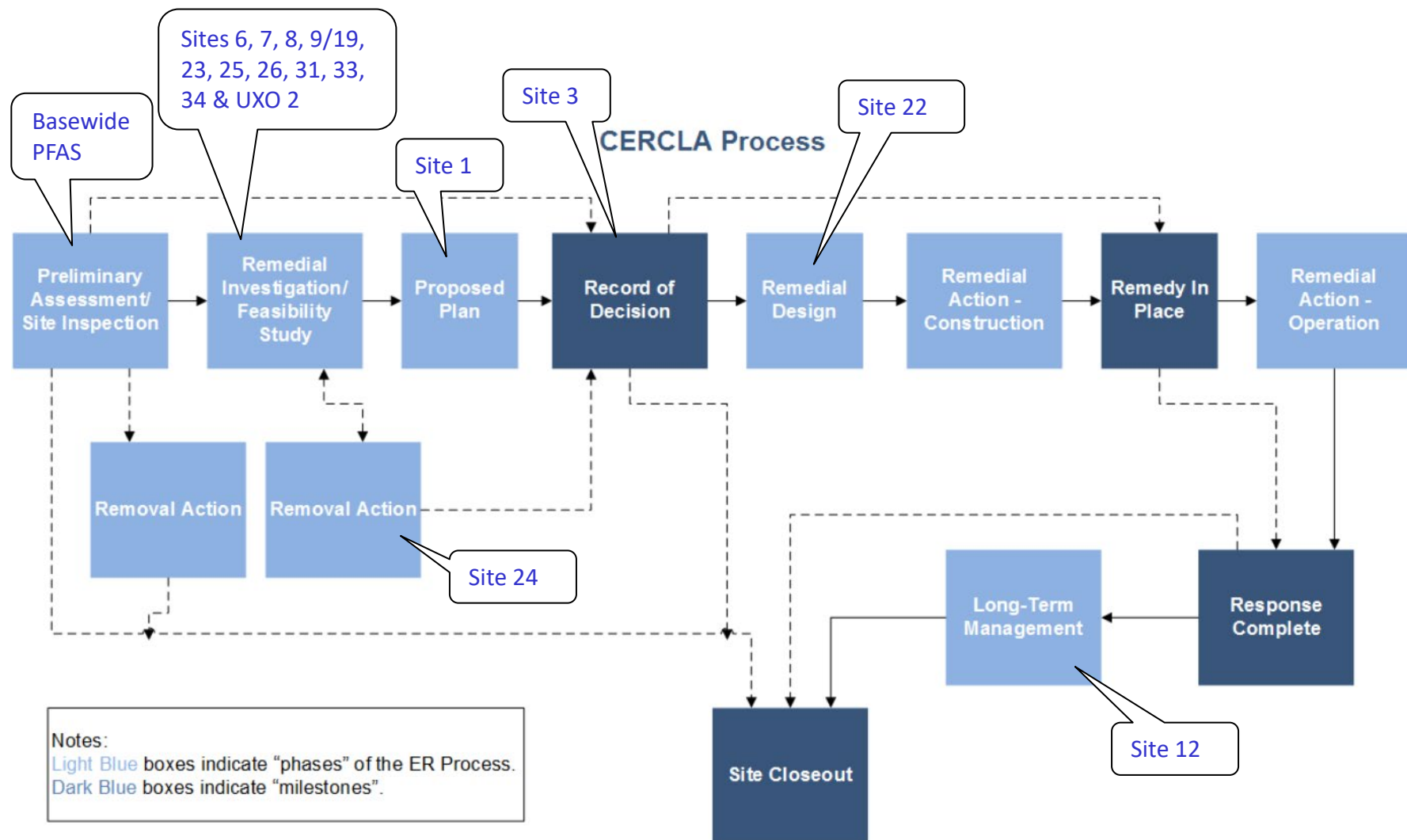
- **28 Installation Restoration Program (IRP) Sites**
 - 12 No Further Action (NFA) Sites
 - 16 Active Sites
 - 11 in Remedial Investigation/Feasibility Study (RI/FS) Phase
 - 1 in Proposed Plan (PP) Phase
 - 1 in Record of Decision (ROD) Phase
 - 1 in Remedial Design/Remedial Action (RD/RA) Phase
 - 1 in Removal Action Phase
 - 1 in Response Complete/Long-Term Management Phase
- **3 Munitions Response Program (MRP) Sites**
 - 2 NFA Sites
 - 1 Active Site in RI Phase

Basewide Per- and Polyfluoroalkyl Substances (PFAS) Investigation

ERP Site Locations



Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Process



Active Sites Status



Site 1 – Dudley Road Landfill

- **29-acre landfill**
- **Soil: ROD in place for soil cover and land use controls (LUCs)**
- **Groundwater, Surface Water, Sediment: Proposed Plan being developed**
 - Active remedy for groundwater utilizing EPA's Adaptive Management strategy
 - NFA for surface water and sediment
 - Public comment period anticipated in Summer 2022
- **Groundwater Pre-Remedial Design (RD) investigation being planned for Winter 2022**

Site 3 – Group 16 Magazine Landfill

- **6-acre landfill**
- **Soil: NFA ROD following soil removal action**
- **Groundwater Pre-RD investigation completed in 2021**
- **Groundwater, surface water, sediment: ROD being developed**
 - Active remedy for groundwater
 - NFA for surface water and sediment
 - ROD signature anticipated in Summer 2022

Active Sites Status



Site 12 – Barracks Road Landfill

- **Consists of three areas:**
 - Area A: 4-acre soil cover
 - Area B/C: 2-acre open field with some wooded areas
 - Wood Debris Disposal Area (WDDA): 3-acre area consisting of a ravine near Ballard Creek where debris was disposed
- **Area A: ROD in place for soil cover, groundwater LTM, and LUCs**
 - Groundwater LTM and LUC inspections ongoing
- **Area B/C and WDDA previously closed with NFA**
 - WDDA reopened based on 2019 partnering team consensus based on surface debris encountered during site visit
 - Investigation fieldwork planned for Summer 2022



Legend

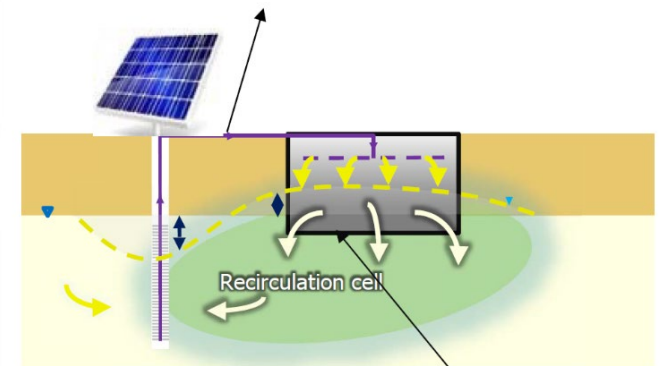
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|---|--|
| ● Cornwallis Cave Aquifer Monitoring Well | — Exposed Former Treatment Plant Discharge Pipe |
| ● Yorktown-Eastover Aquifer Monitoring Well | — Sanitary Sewer Easement |
| ■ Site Sign | — Storm Water Conveyance |
| --- Intermittent Drainage | ■ NWS Yorktown Boundary |
| --- Drainage | ■ NFA Areas |
| ■ Surface Water Body | ■ Area A Groundwater LUC (10 Acres) |
| --- Underground Former Treatment Plant Discharge Pipe | ■ Extent of Landfill Cap (installed in 1997) and Area A Soil LUC (4 Acres) |

Active Sites Status



Site 22 – Burn Pad

- **10-acre area previously containing a 150-foot-diameter circular array of 11 steel burning pans**
- **Soil, surface water, sediment: NFA ROD in place**
- **Groundwater: Remedy optimization ongoing; fieldwork planned to begin in Summer 2022**
 - Subgrade biogeochemical reactor (SBGR) installation and operation
 - Monitoring well installation
 - Groundwater, pore water, and seep sampling



SBGR is filled with gravel and amendments (site-specific and based on contaminant)

Active Sites Status



Site 24 – Aviation Field

- **34-acre site**
- **Groundwater: evaluated in RI**
- **Soil: NTCRA initiated in 2016 and ongoing**
 - Delays encountered due to discovery of munitions and radiological materials
 - Currently working with Joint Munitions Command to dispose of radiological commodities

Site 25 – Building 373 Rocket Plant

- **2-acre site associated with Building 373 explosives loading plant**
- **Soil, groundwater, surface water, sediment**
 - RI completed in FY 2021; only soil requiring additional action
- **Pre-FS investigation for soil completed in early FY 2022**
- **FS for soil being completed to evaluate alternatives for the Proposed Plan and ROD**

Site 24 Excavation



Site 24 Mine Components



Active Sites Status



Site 33 – Sand Blasting Grit Area

- 6-acre site
- RI began in early 2022 and is ongoing
 - Soil, groundwater , surface water, sediment, and seep sampling
 - Monitoring well installation
 - Slug testing
 - Biological survey
 - Toxicity testing



Active Sites Status



Basewide PFAS

- **PA Report finalized in October 2021**
- **SI SAP completed in early FY 2022**
- **SI fieldwork began in March 2022 and is ongoing**
 - 9 potential source areas being investigated
 - Soil and groundwater sampling
 - Monitoring well installation
- **PAs and SIs being conducted for auxiliary areas associated with NWS Yorktown**
 - New Kent, VA
 - Sugar Grove, WV (Operations Area and Support Area)



Questions or Comments?



For additional information regarding the ERP at Naval Weapons Station (NWS) Yorktown, please contact:

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Visit NWS Yorktown's ERP Public Web Page at:
<http://go.usa.gov/xfP6h>