

Update of Per- and Polyfluoroalkyl Substances (PFAS) and 1,4-Dioxane Investigations

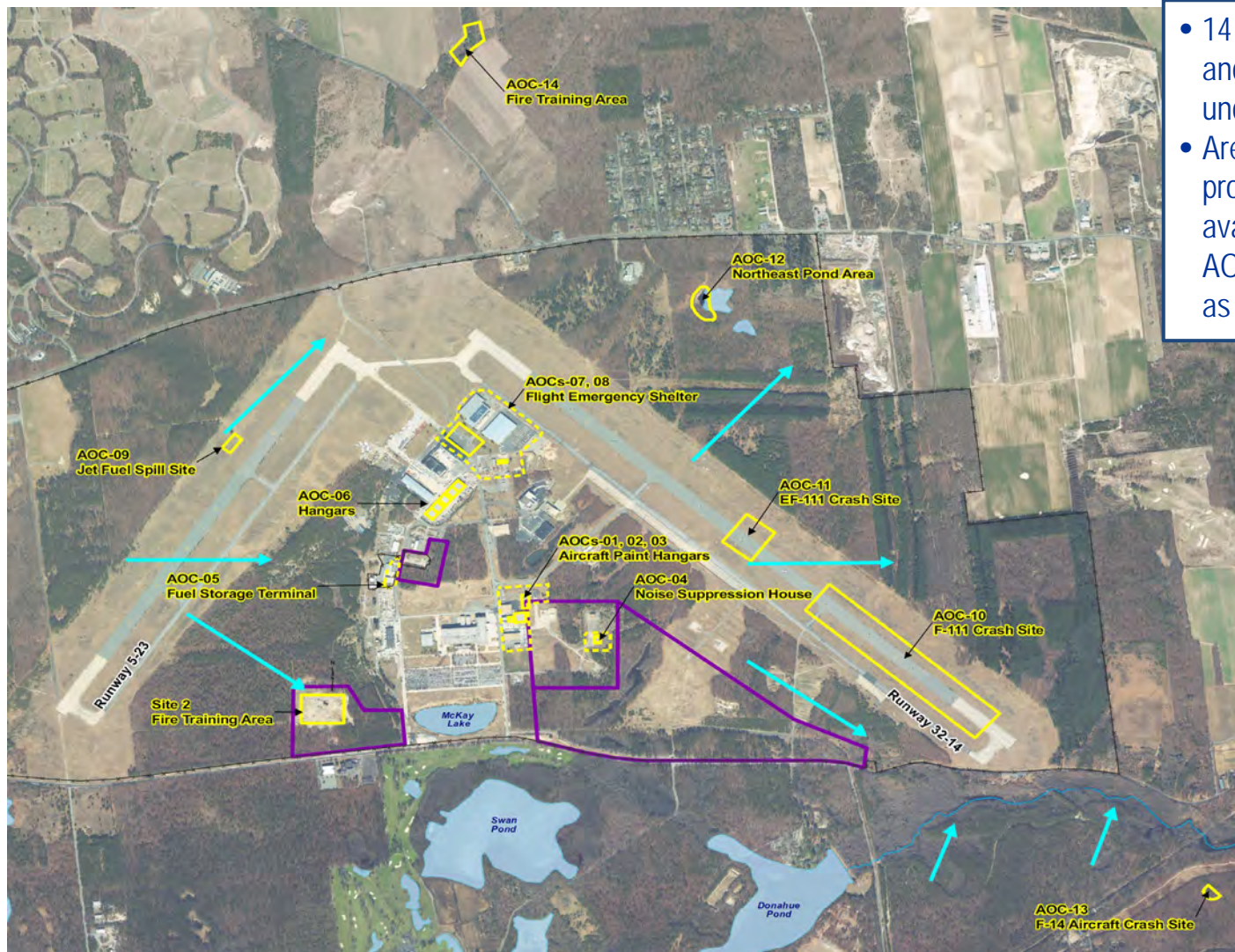
**Presented by:
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NAVFAC Mid-Atlantic
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PFAS Background



- Man-made compounds, used in commercial and industrial products since the 1950s in many products.
- Heat resistant and can repel, oil, grease, and water.
- Uses:
 - Non-stick cookware
 - Fabric stain protection
 - Food packaging
 - Personal care products
 - Fire-fighting foam

PFAS Areas of Concern



- 14 areas of concern (AOCs) and 1 existing site (Site 2) under evaluation for PFAS
- Areas consolidated based on proximity to one another and available PFAS results. Some AOCs have been designated as new sites.

CERCLA Process

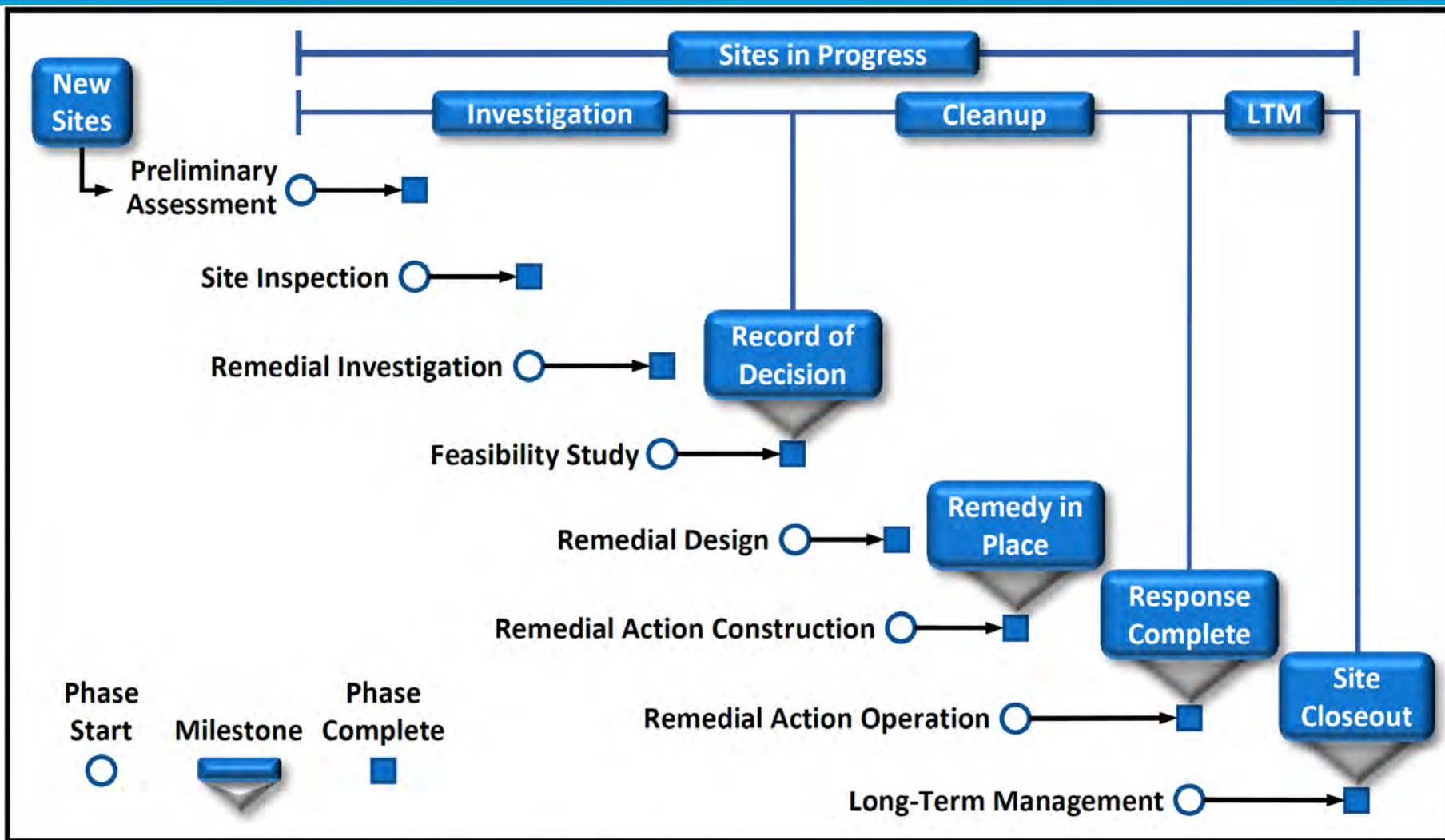


Figure 5-1 DON Environmental Restoration Process: Phases and Milestones

Current Status of PFAS Investigations



- Preliminary Assessment (PA) report completed in 2021. Identified 14 PFAS Areas of Concern (AOCs).
- Existing Site 2 was also identified as a potential PFAS source area due to site history.
- Site Inspection (SI) initiated to verify presence of PFAS at the 14 AOCs and Site 2.
 - Field work completed at - AOCs 01, 02, 03, 04, 05, 06, 09, 12, 13, and 14. SI Report is being prepared.
 - SI field work is ongoing at AOCs 10 and 11 to provide additional data.
- Based on initial SI data, Remedial Investigation (RI) initiated at some locations to characterize nature and extent of PFAS and evaluate risks.
 - Field work completed at Site 2. RI Report is being prepared.
 - Data under evaluation for AOCs 07 and 08/Site 16.

1,4 – Dioxane Background



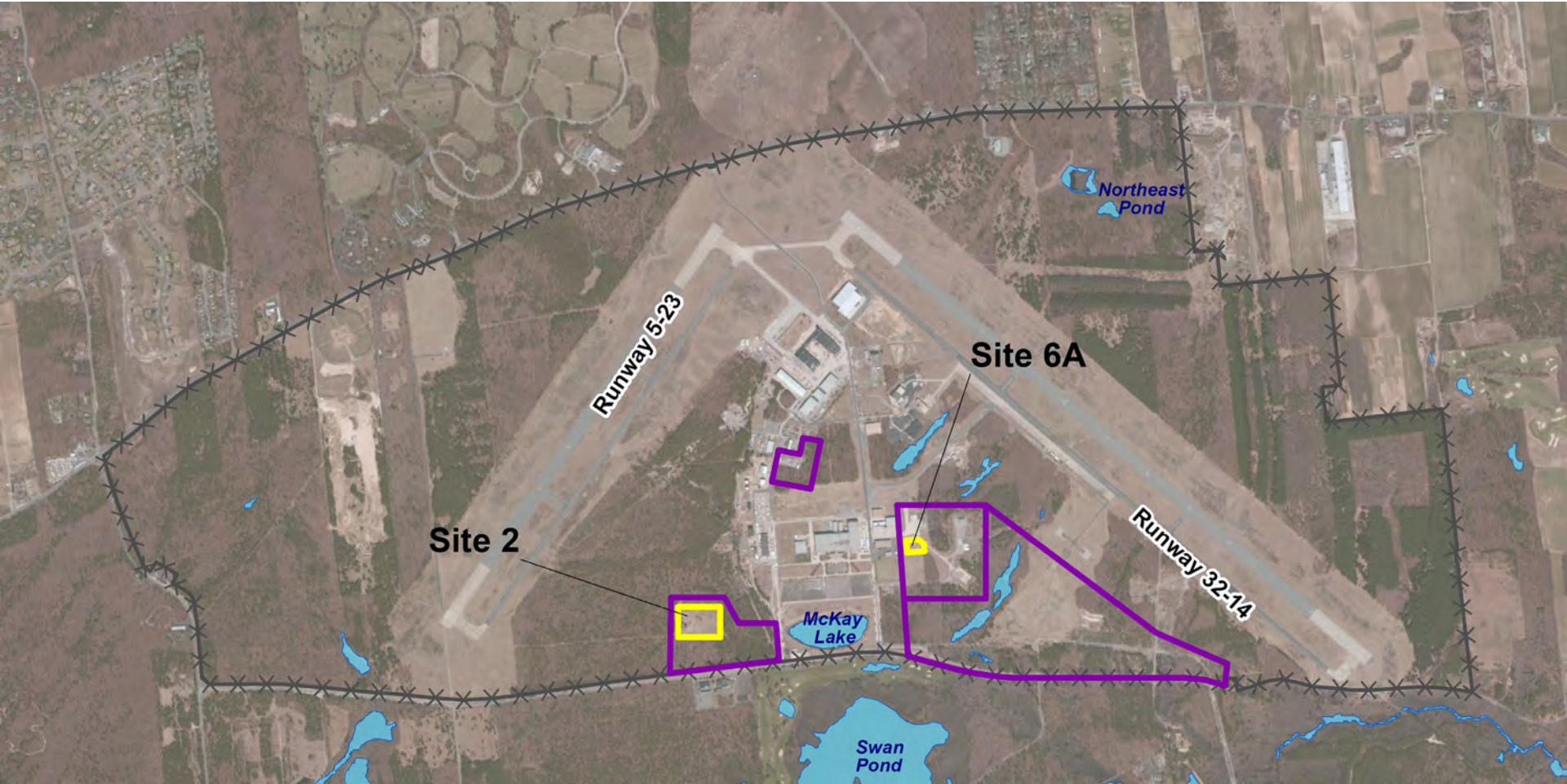
- Man-made chemical found in variety of industrial and consumer products.
- Uses:
 - Industrial:
 - Most notably known as a stabilizer in chlorinated solvents, especially trichloroethane (TCA).
 - Solvent in agricultural chemicals, pharmaceutical preparations, photographic supplies, petroleum refining, explosives, semiconductors, plastics, rubber, and chemical manufacturing.
 - Consumer Products:
 - Cleaners, detergents
 - Shampoos
 - Deodorant
 - Cosmetics

Current Status of 1,4 - Dioxane Investigations



- Preliminary Assessment (PA) for potential 1,4 – dioxane source areas is being prepared.
- Two existing sites with historical chlorinated solvent releases (Site 2 and Site 6A) are currently being monitored for 1,4 – dioxane.
- Next Steps:
 - Field investigations will be completed at potential source areas identified in the PA.
 - A SI report will be prepared summarizing the data and providing recommendations for a path forward for each potential source area.

1,4 - Dioxane Areas of Concern



QUESTIONS?