

# Per- and Polyfluoroalkyl Substances Cleanup: Schedule, Status, and Cost Estimates



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Per- and Polyfluoroalkyl Substances Cleanup: Schedule, Status, and Cost Estimates by DoD Installation

## **I. INTRODUCTION**

This report, *Per- and Polyfluoroalkyl Substances (PFAS) Cleanup: Schedule, Status, and Cost Estimates*, contains the following information:

- A proposed schedule for the completion of remediation of PFAS, and the associated cost estimates to perform such remediation, at military installations,<sup>1</sup> facilities of the National Guard, and Formerly Used Defense Sites (FUDS) in the United States that are identified as of March 31, 2021, as having a release of PFAS, in accordance with Section 348 of the National Defense Authorization Act (NDAA) for Fiscal Year (FY) 2022 (Public Law 117-81);
- The status of efforts to remediate PFAS at certain military installations, in accordance with Section 349 of the NDAA for FY 2022 (Public Law 117-81); and
- A proposed schedule for the completion of remediation of PFAS at military installations, FUDS, and State-owned National Guard facilities in the United States and the associated cost estimates to perform such remediation; and the status of efforts to remediate PFAS at certain military installations, in accordance with House Report 117-118, pages 112, accompanying H.R. 4350, the NDAA for FY 2022.

PFAS are a national issue that requires national solutions. The Department of Defense (DoD) is taking cleanup actions to address PFAS from DoD activities nationwide. DoD's cleanup program follows the federal cleanup law (i.e., the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 [CERCLA], also known as "Superfund") to address DoD releases of PFAS and determine the appropriate cleanup actions based on risk.

The information in this report does not account for additional work that may be required as the U.S. Environmental Protection Agency (EPA) issues new guidance and regulations, concerning PFAS, (e.g., regional screening levels in May 2022, interim health advisories in June 2022).

## **II. BACKGROUND**

DoD is committed to protecting human health and the environment by conducting cleanup under CERCLA. DoD follows the CERCLA process to fully investigate releases, prioritize responses, and determine the appropriate cleanup actions based on risk to human health and the environment. The steps in the CERCLA process include the following:<sup>2</sup>

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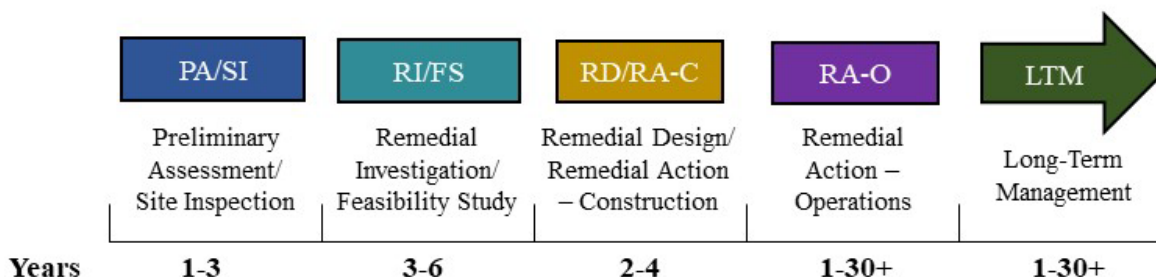
<sup>1</sup> In accordance with Section 2801(c)(4) of title 10, United States Code, "military installation" means a base, camp, post, station, yard, center, or other activity under the jurisdiction of the Secretary of a military department or, in the case of an activity in a foreign country, under the operational control of the Secretary of a military department or the Secretary of Defense, without regard to the duration of operational control.

<sup>2</sup> Sites do not have to progress through all CERCLA phases. For example, no further action may be required at the end of the RI/FS phase. In addition, some sites may not require an RA-O or LTM phase if response actions completed during the RD/RA-C phase are sufficient to clean up the sites.

- Preliminary Assessment (PA)/Site Inspection (SI)
- Remedial Investigation (RI)/Feasibility Study (FS)
- Remedial Design (RD)/Remedial Action-Construction (RA-C)
- Remedial Action-Operation (RA-O)
- LTM

Figure 1 shows the typical amount of time it takes to complete the CERCLA phases listed above.

**Figure 1: Typical CERCLA Timeline**



In addition to these phases, CERCLA can include short-term actions called “removal” or “interim” actions, which DoD conducts to address contaminants quickly to prevent, minimize, or mitigate damage to public health or welfare or to the environment. Removal actions can occur at any time during the CERCLA process. For example, if there is drinking water exposure to perfluorooctane sulfonate/perfluorooctanoic acid above the EPA’s lifetime drinking water Health Advisories (HAs) of 70 parts per trillion combined on or off base resulting from DoD activities, the Department initiates short-term actions (e.g., providing bottled water, point-of-use water filters) and long-term actions (e.g., municipal connections, filtration systems) so that no one – on or off base – is drinking water that is above EPA’s lifetime HAs. Typically, a removal action does not provide a final response action, and the site will continue through the CERCLA remedial process after completion of the removal action.

DoD tailors the actual sequence, timing, and scope of cleanup actions to site-specific conditions. Additionally, the Department prioritizes resources and addresses sites where risk to human health is the highest. As DoD moves through the CERCLA process, it works in collaboration with regulatory agencies, communities, and other stakeholders to ensure open and transparent information sharing.

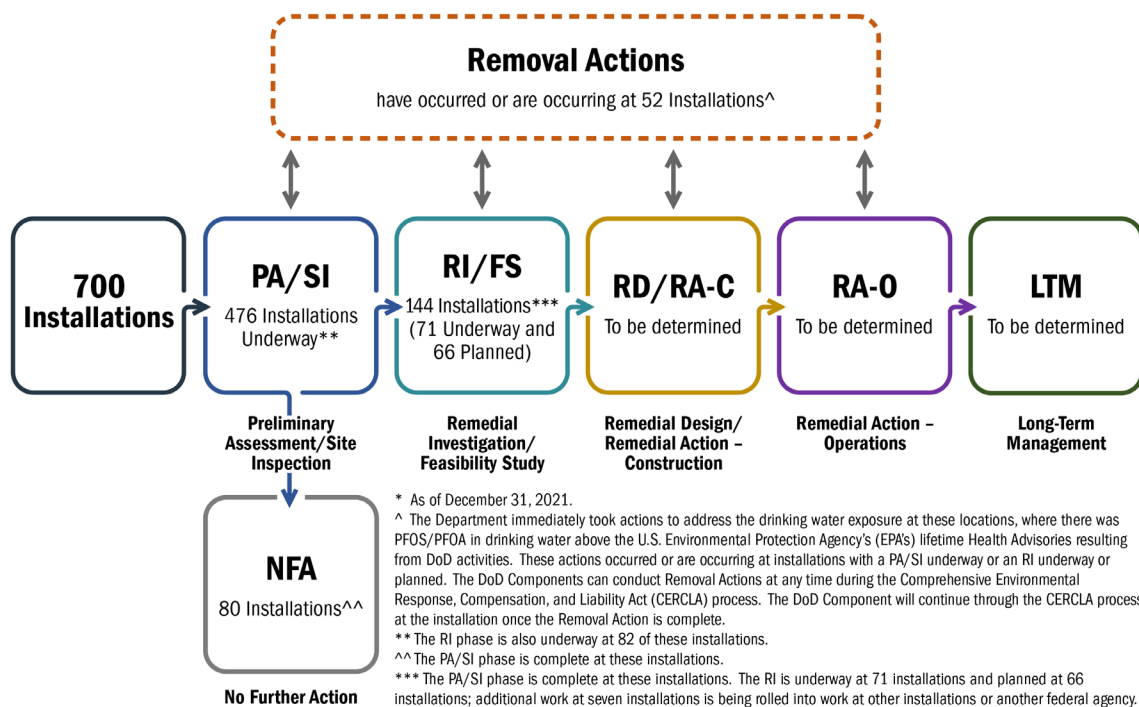
### **III. CLEANUP SCHEDULE AND STATUS**

As of December 31, 2021, DoD has determined that 700 active military installations, Base Realignment and Closure (BRAC) locations, National Guard facilities, and FUDS properties require an assessment of PFAS use or potential release. These installations, along with their cleanup status, are identified in the appendix; the 50 installations listed in Section 349 of the NDAA for FY 2022 and in House Report 117-118, page 112, accompanying the NDAA for FY 2022, are shaded blue. The appendix also provides the current proposed schedule to complete PFAS cleanup, including the estimated completion dates for the PA/SI and RI/FS

phases. Once DoD completes the RI/FS and learns more about the cleanup required, it will plan and program for requirements beyond this phase.

Figure 2 provides a summary of the cleanup status at the 700 installations DoD is assessing for PFAS use or potential release. As of December 31, 2021, DoD has completed the PA/SI phase at 224 installations (32 percent). The Department has determined that no further action is required at 80 of these installations, while 144 are proceeding to the next step in the CERCLA process.

**Figure 2: Status of Installations Being Assessed for PFAS Use or Potential Release\***



## IV. COST ESTIMATES

Through September 30, 2021, DoD has obligated \$1.46 billion to investigate and clean up PFAS. DoD anticipates obligating \$409.4 million in FY 2022 and an additional \$2.12 billion after FY 2022 to continue these efforts. The appendix provides these obligations by DoD installation.

The funding data presented in the appendix represents a snapshot in time of the obligations and estimated costs to investigate and clean up PFAS as of September 30, 2021. DoD does not track funding by contaminant, and the cost data in the appendix represents the DoD Components' best estimates of the funding obligated through FY 2021, and to be obligated in FY 2022 and beyond, for investigations and cleanup of DoD releases of PFAS. The Department expects the cost estimates to increase as the DoD Components complete the initial assessments and learn more about the extent of the cleanup required. The DoD Components will plan and program for these requirements as they are defined.

## **V. CONCLUSION**

DoD is taking action under CERCLA to address PFAS releases from DoD activities. As of December 31, 2021, the Department has identified 700 active military installations, BRAC locations, National Guard facilities, and FUDS properties that require an assessment of PFAS use or potential release. DoD has obligated \$1.46 billion through FY 2021 and plans to obligate \$409.4 million in FY 2022 to address its PFAS releases. DoD plans to obligate an additional \$2.12 billion after FY 2022 to address PFAS releases, based on information available as of the end of FY 2021. DoD expects this estimate to increase as the DoD Components complete initial assessments and determine what cleanup actions are required. The Department will plan and program for these requirements as they are defined.

## Appendix: Per- and Polyfluoroalkyl Substances Cleanup: Schedule, Status, and Cost Estimates by DoD Installation

DoD Component	State/Territory	Installation Type	Installation Name	PA/SI Status	Estimated PA/SI End Date	RI/FS Status	Estimated RI/FS End Date	Cleanup Status as of December 31, 2021	Actual Obligations Through FY 2021 (\$000)	Planned Obligations in FY 2022 (\$000)	Planned Obligations after FY 2022 (\$000)*
Army	Alabama	National Guard	AASF #1 R W Shepherd Hope Hull	Underway	202301			PA/SI Underway	85	0	0
Army	Alabama	National Guard	AASF #2 Birmingham	Underway	202301			PA/SI Underway	85	0	0
Army	Alabama	National Guard	AASF #3 Bates Field Mobile	Underway	202301			PA/SI Underway	85	0	0
Army	Alabama	BRAC	ALAAP	Underway	202212			PA/SI Underway	140	420	0
Army	Alabama	Active	Anniston Army Depot	Underway	202206	Planned		PA/SI Underway	413	559	230
Army	Alabama	National Guard	Fort McClellan	Complete				PA/SI Completed - No Further Action	15	0	0
Army	Alabama	BRAC	Fort McClellan BRAC	Underway	202212			PA/SI Underway	149	2,145	0
Army	Alabama	Active	Fort Rucker	Underway	202203	Planned		PA/SI Underway	920	2,029	309
Army	Alabama	National Guard	Pelham Range	Complete				PA/SI Completed - No Further Action	15	0	0
Army	Alabama	Active	Redstone Arsenal	Underway	202203	Planned		PA/SI Underway	533	714	237
Army	Alaska	National Guard	Bethel AAOF	Underway	202205			PA/SI Underway	103	0	0
Army	Alaska	National Guard	Bryant Airfield- JBER	Underway	202303			PA/SI Underway	180	0	0
Army	Alaska	Active	Fort Greely	Underway	202203	Planned		PA/SI Underway	850	4,830	873
Army	Alaska	Active	Fort Wainwright	Underway	202203	Planned		PA/SI Underway	350	491	1,595
Army	Alaska	Active	Fort Wainwright - Gerstle River Test Site	Underway	202303			PA/SI Underway	48	0	0
Army	Alaska	Active	Fort Wainwright - Haines Pipeline Facilities	Underway	202303			PA/SI Underway	64	0	0
Army	Alaska	National Guard	Juneau AAOF	Underway	202206			PA/SI Underway	103	0	0
Army	Alaska	National Guard	Nome AAOF	Underway	202206			PA/SI Underway	103	0	0
Army	Arizona	National Guard	Camp Navajo	Underway	202302			PA/SI Underway	211	0	0
Army	Arizona	National Guard	Florence Military Reservation	Complete				PA/SI Completed - No Further Action	15	0	0
Army	Arizona	Active	Fort Huachuca	Underway	202203	Planned		PA/SI Underway	527	5,509	572
Army	Arizona	National Guard	Papago Military Reservation	Complete		Planned		PA/SI Completed - RI Planned	85	0	0
Army	Arizona	National Guard	Silver Bell Army Heliport	Underway	202209			PA/SI Underway	205	0	0
Army	Arizona	National Guard	Tempe Readiness Center	Complete				PA/SI Completed - No Further Action	10	0	0
Army	Arizona	Active	Yuma Proving Ground	Underway	202203	Planned		PA/SI Underway	806	2,000	0
Army	Arkansas	National Guard	Camp Robinson	Underway	202206			PA/SI Underway	103	0	0
Army	Arkansas	BRAC	Fort Chaffee	Underway	202212			PA/SI Underway	148	2,113	0
Army	Arkansas	Active	Pine Bluff Arsenal	Complete		Planned		PA/SI Completed - RI Planned	290	393	0
Army	California	National Guard	Camp Roberts	Underway	202206	Planned		PA/SI Underway	92	1,357	0
Army	California	National Guard	Camp San Luis Obispo	Underway	202207			PA/SI Underway	80	0	0
Army	California	Active	Fort Hunter Liggett	Underway	202203	Underway	202509	PA/SI and RI Underway	1,730	3	316
Army	California	Active	Fort Hunter Liggett - Parks Reserve Forces Training Area	Underway	202203	Planned		PA/SI Underway	363	476	321
Army	California	Active	Fort Irwin	Underway	202203	Planned		PA/SI Underway	524	0	0
Army	California	BRAC	Fort Ord	Underway	202212	Planned		PA/SI Underway	564	1,719	0
Army	California	National Guard	Fresno TASMG	Underway	202207			PA/SI Underway	210	0	0
Army	California	BRAC	Hamilton Airfield	Underway	202212			PA/SI Underway	20	2,242	0

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Army	California	National Guard	JFTB Los Alamitos	Complete		Underway	202306	PA/SI Completed - RI Underway	1,398	0	0
Army	California	BRAC	Lompoc	Underway	202212			PA/SI Underway	5	2,242	0
Army	California	Active	Military Ocean Terminal Concord	Underway	202206	Planned		PA/SI Underway	395	916	369
Army	California	National Guard	NG Sacramento Mather (AASF)	Underway	202212			PA/SI Underway	80	0	0
Army	California	Active	Presidio of Monterey	Underway	202209			PA/SI Underway	48	0	0
Army	California	Active	Presidio of Monterey - Sharpe Army Depot	Underway	202206	Planned		PA/SI Underway	393	1,292	365
Army	California	BRAC	Rio Vista	Underway	202212			PA/SI Underway	67	2,242	0
Army	California	BRAC	Riverbank Army Ammunition Plant	Underway	202212			PA/SI Underway	392	1,753	0
Army	California	National Guard	Roseville Armory	Underway	202303			PA/SI Underway	180	0	0
Army	California	BRAC	Sacramento Army Depot	Underway	202212			PA/SI Underway	107	2,080	0
Army	California	Active	Sierra Army Depot	Underway	202206	Planned		PA/SI Underway	830	824	0
Army	California	BRAC	Sierra Army Depot BRAC	Underway	202209			PA/SI Underway	13	2,113	0
Army	California	National Guard	Stockton AASF	Underway	202206			PA/SI Underway	85	1,357	0
Army	Colorado	National Guard	Buckley Air Force Base AASF	Underway	202303			PA/SI Underway	53	0	0
Army	Colorado	Active	Fort Carson	Underway	202203	Planned		PA/SI Underway	388	0	2,701
Army	Colorado	National Guard	Gypsum (HAATS)	Underway	202210			PA/SI Underway	180	47	0
Army	Colorado	Active	Pueblo Army Depot Active	Complete				PA/SI Completed - No Further Action	107	0	0
Army	Colorado	BRAC	Pueblo Army Depot BRAC	Underway	202209			PA/SI Underway	371	1,544	0
Army	Colorado	Active	Rocky Mountain Arsenal	Complete				PA/SI Completed - No Further Action	0	0	0
Army	Connecticut	National Guard	Groton AVCRAD and TASMG Hangar 2	Underway	202212			PA/SI Underway	180	0	0
Army	Connecticut	National Guard	Windsor Locks AASF	Complete		Planned		PA/SI Completed - RI Planned	86	0	0
Army	Delaware	National Guard	Duncan Armory AASF	Underway	202203	Planned		PA/SI Underway	103	0	66
Army	Delaware	National Guard	River Road Training Site	Complete				PA/SI Completed - No Further Action	85	0	0
Army	Delaware	National Guard	Stern Armory	Complete				PA/SI Completed - No Further Action	15	0	0
Army	Delaware	National Guard	Wilmington Armory	Complete				PA/SI Completed - No Further Action	15	0	0
Army	Florida	National Guard	Brooksville RC, AASF #2	Underway	202212			PA/SI Underway	135	0	0
Army	Florida	National Guard	Camp Blanding	Underway	202212			PA/SI Underway	187	0	0
Army	Florida	National Guard	Dade City Readiness Center	Complete				PA/SI Completed - No Further Action	15	0	0
Army	Florida	National Guard	Fort Pierce Readiness Center	Complete				PA/SI Completed - No Further Action	15	0	0



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Army	Florida	National Guard	Jacksonville, Cecil Field, AASF #1	Complete				PA/SI Completed - Additional Work will be Combined with Work Being Conducted at Another Installation	15	0	0
Army	Florida	National Guard	Lakeland Readiness Center	Complete				PA/SI Completed - No Further Action	15	0	0
Army	Florida	National Guard	Mariana Readiness Ctr	Underway	202212			PA/SI Underway	110	0	0
Army	Florida	National Guard	Pensacola (Ellyson Field)	Complete				PA/SI Completed - No Further Action	15	0	0
Army	Florida	National Guard	Plant City Readiness Center	Complete				PA/SI Completed - No Further Action	15	0	0
Army	Georgia	Active	Fort Benning	Underway	202203	Planned		PA/SI Underway	478	1,422	0
Army	Georgia	Active	Fort Benning - Camp Merrill	Underway	202209			PA/SI Underway	0	0	0
Army	Georgia	BRAC	Fort Gillem	Underway	202212			PA/SI Underway	371	1,719	0
Army	Georgia	Active	Fort Gordon	Complete		Planned		PA/SI Completed - RI Planned	382	572	0
Army	Georgia	Active	Fort Gordon - Gillem Annex	Complete		Planned		PA/SI Completed - RI Planned	107	572	0
Army	Georgia	BRAC	Fort McPherson	Complete				PA/SI Completed - No Further Action	0	0	0
Army	Georgia	Active	Fort Stewart	Underway	202206	Planned		PA/SI Underway	385	521	0
Army	Georgia	Active	Fort Stewart - Hunter AAF	Underway	202206	Planned		PA/SI Underway	350	508	0
Army	Georgia	National Guard	General Lucius D. Clay National Guard Center	Underway	202206			PA/SI Underway	85	0	0
Army	Georgia	National Guard	Georgia Garrison Training Center	Complete				PA/SI Completed - No Further Action	15	0	0
Army	Georgia	National Guard	Hunter AAF - AASF Hangar 805	Complete				PA/SI Completed - Additional Work will be Combined with Work Being Conducted at Another Installation	15	0	0
Army	Georgia	National Guard	Winder Barrow County Airport (enclave)	Underway	202209			PA/SI Underway	135	0	0
Army	Guam	National Guard	AASF Guam	Underway	202209			PA/SI Underway	103	47	0
Army	Hawaii	National Guard	Fort Ruger	Complete				PA/SI Completed - No Further Action	15	0	0
Army	Hawaii	National Guard	Hilo AASF #2	Complete				PA/SI Completed - No Further Action	15	0	0
Army	Hawaii	National Guard	Kalaoloa Facility (Former Barbers Point-NAS)	Underway	202209			PA/SI Underway	103	0	0
Army	Hawaii	Active	USAG HI - Dillingham Military Reservation	Underway	202203			PA/SI Underway	50	0	0
Army	Hawaii	Active	USAG HI - Fort Shafter/Tripler Army Medical Center	Underway	202206			PA/SI Underway	129	0	0
Army	Hawaii	Active	USAG HI - Hawaii - Wheeler Army Airfield	Underway	202206			PA/SI Underway	110	0	0

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Army	Hawaii	Active	USAG HI - Helemano RAD REC Station	Underway	202206			PA/SI Underway	95	0	0
Army	Hawaii	Active	USAG HI - Kahuku Training Area	Underway	202203			PA/SI Underway	50	0	0
Army	Hawaii	Active	USAG HI - Kilauea Military Reservation	Underway	202206			PA/SI Underway	95	0	0
Army	Hawaii	Active	USAG HI - Kipapa Ammunition Storage Site	Underway	202203			PA/SI Underway	50	0	0
Army	Hawaii	Active	USAG HI - Kunia Field Station	Underway	202203			PA/SI Underway	50	0	0
Army	Hawaii	Active	USAG HI - Makua Military Reservation	Underway	202203			PA/SI Underway	65	0	0
Army	Hawaii	Active	USAG HI - Oahu - Schofield Barracks	Underway	202206			PA/SI Underway	708	0	0
Army	Hawaii	Active	USAG HI - Pohakuloa Training Center	Underway	202206			PA/SI Underway	358	0	0
Army	Hawaii	Active	USAG HI - Waikakalua Ammunition Storage Tunnels	Underway	202203			PA/SI Underway	50	0	0
Army	Hawaii	National Guard	Waiawa Unit Training Equipment Site (UTES)	Underway	202301			PA/SI Underway	85	0	0
Army	Idaho	National Guard	Edgemoade TS Mountain Home	Complete				PA/SI Completed - No Further Action	15	0	0
Army	Idaho	National Guard	Gowen Field Boise/Airport Training Area	Underway	202210			PA/SI Underway	86	0	0
Army	Idaho	National Guard	Orchard MATES Boise	Underway	202206			PA/SI Underway	85	0	0
Army	Illinois	Active	Charles Melvin Price Support Center	Underway	202303			PA/SI Underway	0	0	0
Army	Illinois	National Guard	Chicago (Midway Armory, AASF #2)	Underway	202301			PA/SI Underway	85	0	0
Army	Illinois	National Guard	Decatur AASF #1	Underway	202209			PA/SI Underway	85	0	0
Army	Illinois	BRAC	Fort Sheridan	Underway	202212			PA/SI Underway	150	2,145	0
Army	Illinois	Active	Joliet Army Ammunition Plant	Underway	202303			PA/SI Underway	0	0	0
Army	Illinois	National Guard	Kankakee AASF / Readiness Center	Complete				PA/SI Completed - No Further Action	15	0	0
Army	Illinois	National Guard	Peoria AASF #3 and AASF #4	Underway	202209			PA/SI Underway	85	0	0
Army	Illinois	Active	Rock Island Arsenal	Underway	202206	Planned		PA/SI Underway	406	0	2,637
Army	Illinois	BRAC	Savanna Army Depot	Underway	202212	Underway	202309	PA/SI and RI Underway	1,483	2,237	0
Army	Illinois	National Guard	Sparta Armory	Complete				PA/SI Completed - No Further Action	0	0	0
Army	Indiana	National Guard	Camp Atterbury/Range 36 ATG	Underway	202208			PA/SI Underway	92	0	0
Army	Indiana	BRAC	Fort Benjamin Harrison	Underway	202212			PA/SI Underway	407	1,761	0
Army	Indiana	National Guard	Gary AASF	Underway	202210			PA/SI Underway	103	0	0
Army	Indiana	Active	Indiana Army Ammunition Plant	Underway	202303			PA/SI Underway	0	0	0

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DoD Component	State/Territory	Installation Type	Installation Name	PA/SI Status	Estimated PA/SI End Date	RI/FS Status	Estimated RI/FS End Date	Cleanup Status as of December 31, 2021	Actual Obligations Through FY 2021 (\$000)	Planned Obligations in FY 2022 (\$000)	Planned Obligations after FY 2022 (\$000)*
Army	Indiana	National Guard	Muscatatuck Urban Training Center	Underway	202210			PA/SI Underway	175	0	0
Army	Indiana	BRAC	Newport Chemical Depot	Underway	202212			PA/SI Underway	699	1,761	0
Army	Indiana	National Guard	Shelbyville AASF	Underway	202212	Planned		PA/SI Underway	80	0	0
Army	Iowa	National Guard	Boone AASF	Complete		Underway	202609	PA/SI Completed - RI Underway	841	0	72
Army	Iowa	National Guard	Camp Dodge Johnston Training Site	Complete		Underway	202609	PA/SI Completed - RI Underway	1,215	0	72
Army	Iowa	National Guard	Davenport AASF	Underway	202202	Underway	202609	PA/SI and RI Underway	864	0	72
Army	Iowa	Active	Iowa Army Ammunition Plant	Underway	202207	Underway	202606	PA/SI and RI Underway	1,837	0	0
Army	Iowa	National Guard	Waterloo Big Rock AASF #2	Complete		Underway	202609	PA/SI Completed - RI Underway	1,032	0	72
Army	Kansas	Active	ASF New Century	Complete				PA/SI Completed - No Further Action	38	0	0
Army	Kansas	Active	Fort Leavenworth	Complete		Underway	202609	PA/SI Completed - RI Underway	1,968	0	59
Army	Kansas	Active	Fort Riley	Underway	202203	Underway	202609	PA/SI and RI Underway	3,304	0	261
Army	Kansas	BRAC	Kansas Army Ammunition Plant	Underway	202212			PA/SI Underway	159	1,975	0
Army	Kansas	National Guard	Salina AASF #2	Underway	202303			PA/SI Underway	103	0	0
Army	Kansas	Active	Sunflower Army Ammunition Plant	Underway	202303			PA/SI Underway	0	0	0
Army	Kansas	National Guard	Topeka Forbes Field AASF #1	Complete		Underway	202409	PA/SI Completed - RI Underway	938	0	78
Army	Kentucky	Active	Blue Grass Army Depot	Underway	202203	Planned		PA/SI Underway	290	488	249
Army	Kentucky	BRAC	Bluegrass Army Depot BRAC	Underway	202212			PA/SI Underway	774	1,761	0
Army	Kentucky	National Guard	Boone National Guard Center - AASF	Underway	202206			PA/SI Underway	103	0	0
Army	Kentucky	Active	Fort Campbell	Underway	202203	Planned		PA/SI Underway	589	1,541	294
Army	Kentucky	Active	Fort Knox	Underway	202206	Planned		PA/SI Underway	311	468	0
Army	Kentucky	National Guard	W.H. Ford Regional Training Center	Underway	202206			PA/SI Underway	110	0	0
Army	Louisiana	National Guard	Camp Beauregard	Underway	202206	Planned		PA/SI Underway	85	0	0
Army	Louisiana	National Guard	Camp Minden	Complete				PA/SI Completed - No Further Action	109	0	0
Army	Louisiana	National Guard	Camp Villere	Complete				PA/SI Completed - No Further Action	10	0	0
Army	Louisiana	National Guard	Esler Field AASF #2	Underway	202206			PA/SI Underway	85	0	0
Army	Louisiana	Active	Fort Polk	Underway	202206	Planned		PA/SI Underway	290	0	782
Army	Louisiana	Active	Fort Polk - Peason Ridge	Underway	202206			PA/SI Underway	61	0	0
Army	Louisiana	National Guard	Hammond AASF #1	Underway	202210			PA/SI Underway	103	0	0
Army	Louisiana	National Guard	Lake Charles Chenault Airfield	Underway	202206			PA/SI Underway	70	0	0
Army	Maine	National Guard	Bangor Training Site	Underway	202302			PA/SI Underway	85	0	0

## Appendix: Per- and Polyfluoroalkyl Substances Cleanup: Schedule, Status, and Cost Estimates by DoD Installation

DoD Component	State/Territory	Installation Type	Installation Name	PA/SI Status	Estimated PA/SI End Date	RI/FS Status	Estimated RI/FS End Date	Cleanup Status as of December 31, 2021	Actual Obligations Through FY 2021 (\$000)	Planned Obligations in FY 2022 (\$000)	Planned Obligations after FY 2022 (\$000)*
Army	Maine	National Guard	Brunswick West	Complete				PA/SI Completed - No Further Action	10	0	0
Army	Maine	National Guard	Brunswick Armed Forces Reserve Center	Complete				PA/SI Completed - No Further Action	16	0	0
Army	Maine	National Guard	Brunswick East	Complete				PA/SI Completed - No Further Action	10	0	0
Army	Maine	National Guard	Caswell Training Site	Complete				PA/SI Completed - No Further Action	15	0	0
Army	Maine	National Guard	Presque Isle SFRO	Complete				PA/SI Completed - No Further Action	15	0	0
Army	Marshall Islands	Active	Kwajalein Atoll	Underway	202212			PA/SI Underway	0	350	0
Army	Maryland	Active	Aberdeen Proving Ground	Underway	202306	Planned		PA/SI Underway	1,497	0	2,657
Army	Maryland	Active	Aberdeen Proving Ground - Adelphi Laboratory Center	Underway	202209			PA/SI Underway	0	0	0
Army	Maryland	Active	Fort Detrick	Underway	202203	Planned		PA/SI Underway	343	309	281
Army	Maryland	Active	Fort Detrick - Forest Glen Annex	Underway	202203			PA/SI Underway	106	0	0
Army	Maryland	BRAC	Fort Meade	Underway	202203	Underway	202509	PA/SI and RI Underway	1,802	827	0
Army	Maryland	Active	Fort Meade	Underway	202203	Planned		PA/SI Underway	391	521	261
Army	Maryland	Active	Fort Meade - Phoenix Military Reservation	Underway	202203			PA/SI Underway	48	0	0
Army	Maryland	National Guard	Weide AASF (enclave on APG)	Complete				PA/SI Completed - Additional Work will be Combined with Work Being Conducted at Another Installation	15	0	0
Army	Massachusetts	National Guard	Camp Edwards	Complete				PA/SI Completed - Additional Work will be Combined with Work Being Conducted at Another Installation	15	0	0
Army	Massachusetts	BRAC	Devens	Complete		Underway	202409	PA/SI Completed - RI Underway	16,290	9,443	42,066
Army	Massachusetts	Active	Devens Reserve Forces Training Area	Underway	202203			PA/SI Underway	48	0	0
Army	Massachusetts	Active	Natick Soldier Systems Center	Complete				PA/SI Completed - No Further Action	61	0	0
Army	Massachusetts	BRAC	Sudbury	Underway	202212			PA/SI Underway	1,505	1,719	0
Army	Massachusetts	National Guard	Westfield/Barnes AASF	Complete				PA/SI Completed - No Further Action	10	0	0
Army	Michigan	National Guard	Belmont Armory	Complete				PA/SI Completed - No Further Action	15	0	0
Army	Michigan	Active	Detroit Arsenal	Underway	202206	Planned		PA/SI Underway	397	463	373
Army	Michigan	BRAC	Detroit Arsenal	Underway	202212			PA/SI Underway	0	1,951	0
Army	Michigan	National Guard	Ft Custer	Underway	202208			PA/SI Underway	85	0	0

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Army	Michigan	National Guard	Grand Ledge AASF	Complete		Underway	202609	PA/SI Completed - RI Underway	738	0	52
Army	Michigan	National Guard	Lansing Airport Hangar	Underway	202205	Planned		PA/SI Underway	135	0	0
Army	Michigan	National Guard	MTC-H Camp Grayling Airfield (installation-wide PAI)	Complete		Underway	202209	PA/SI Completed - RI Underway	1,049	1,306	52
Army	Michigan	National Guard	MTC-H Camp Grayling-Cantonment	Complete		Underway	202309	PA/SI Completed - RI Underway	310	550	0
Army	Michigan	National Guard	MTC-H Camp Grayling-MATES	Complete		Underway	202609	PA/SI Completed - RI Underway	249	0	0
Army	Minnesota	National Guard	Camp Ripley (all AOIs)	Underway	202303			PA/SI Underway	120	0	0
Army	Minnesota	National Guard	Camp Ripley (Installation Wide PA) (Western AOI SI)	Underway	202303			PA/SI Underway	232	0	0
Army	Minnesota	National Guard	Holman Field AASF	Underway	202303			PA/SI Underway	180	0	0
Army	Minnesota	National Guard	St Cloud AASF	Underway	202204			PA/SI Underway	115	0	0
Army	Minnesota	Active	Twin Cities Army Ammunition Plant	Underway	202303			PA/SI Underway	0	0	0
Army	Mississippi	National Guard	AASF Jackson	Underway	202303			PA/SI Underway	180	0	0
Army	Mississippi	National Guard	AASF Meridian	Underway	202303			PA/SI Underway	180	0	0
Army	Mississippi	National Guard	AASF Tupelo	Underway	202206			PA/SI Underway	210	0	0
Army	Mississippi	National Guard	Camp McCain	Underway	202303			PA/SI Underway	180	0	0
Army	Mississippi	National Guard	Camp Shelby	Underway	202303			PA/SI Underway	85	0	0
Army	Mississippi	National Guard	TASMG Gulfport	Underway	202303			PA/SI Underway	85	0	0
Army	Missouri	Active	Fort Leonard Wood	Underway	202203	Planned		PA/SI Underway	537	5,306	535
Army	Missouri	National Guard	Jefferson City AASF/Armory	Underway	202212			PA/SI Underway	85	0	0
Army	Missouri	Active	Lake City Ammunition Plant	Underway	202206	Planned		PA/SI Underway	376	2,564	0
Army	Missouri	National Guard	Springfield AVCRAD	Underway	202212			PA/SI Underway	85	0	0
Army	Missouri	Active	St Louis Army Ammunition Plant	Underway	202209			PA/SI Underway	0	0	0
Army	Missouri	National Guard	Whiteman Flight Facility	Complete				PA/SI Completed - No Further Action	15	0	0
Army	Montana	National Guard	Fort William Henry Harrison /JFHQ MT	Complete		Underway	202309	PA/SI Completed - RI Underway	259	0	0
Army	Montana	National Guard	Helena Aviation Readiness Center - AASF	Complete		Underway	202609	PA/SI Completed - RI Underway	860	0	72
Army	Nebraska	Active	Cornhusker Army Ammunition Plant	Underway	202303			PA/SI Underway	0	0	0
Army	Nebraska	National Guard	Grand Island AASF/RC	Underway	202207			PA/SI Underway	103	0	0
Army	Nebraska	National Guard	Lincoln AASF/Readiness Center	Underway	202207			PA/SI Underway	103	0	0
Army	Nebraska	National Guard	Norfolk FMS #7	Underway	202207			PA/SI Underway	103	0	0
Army	Nevada	Active	Hawthorne Army Depot	Underway	202203	Planned		PA/SI Underway	588	1,387	389
Army	Nevada	National Guard	Las Vegas Cheyenne AASF	Underway	202212			PA/SI Underway	103	47	0
Army	Nevada	National Guard	Reno AASF	Underway	202212			PA/SI Underway	103	47	0
Army	New Hampshire	National Guard	AASF Concord	Underway	202211			PA/SI Underway	103	47	0
Army	New Hampshire	Active	Cold Regions Research and Engineering Laboratory	Complete				PA/SI Completed - No Further Action	0	0	0

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Army	New Hampshire	National Guard	Former Crash Fire Station, Building 241	Complete				PA/SI Completed - No Further Action	15	0	0
Army	New Hampshire	National Guard	Stafford TS - New Hampshire TS	Underway	202210			PA/SI Underway	205	47	0
Army	New Hampshire	National Guard	State Military Reservation	Underway	202211			PA/SI Underway	103	47	0
Army	New Jersey	National Guard	AASF Main Hangar-cold storage	Complete		Underway	202609	PA/SI Completed - RI Underway	1,118	0	76
Army	New Jersey	Active	Picatinny Arsenal	Underway	202203	Planned		PA/SI Underway	1,306	1,315	382
Army	New Mexico	BRAC	Fort Wingate	Underway	202212			PA/SI Underway	155	2,113	0
Army	New Mexico	National Guard	Riorancho	Underway	202207			PA/SI Underway	103	0	0
Army	New Mexico	National Guard	Roswell	Underway	202210			PA/SI Underway	103	47	0
Army	New Mexico	National Guard	Santa Fe AASF	Underway	202210			PA/SI Underway	103	47	0
Army	New Mexico	Active	White Sands Missile Range	Underway	202203	Planned		PA/SI Underway	382	1,770	67
Army	New York	National Guard	Albany AASF #3/DMNA HQ /FMS #16	Underway	202301			PA/SI Underway	86	0	0
Army	New York	National Guard	Camp Smith/CSMS A	Underway	202207	Underway	202609	PA/SI and RI Underway	847	0	0
Army	New York	Active	Fort Drum	Underway	202203	Planned		PA/SI Underway	2,295	1,821	366
Army	New York	Active	Fort Hamilton	Complete				PA/SI Completed - No Further Action	48	0	0
Army	New York	National Guard	Rochester Readiness Center/AASF #2	Underway	202208			PA/SI Underway	98	0	0
Army	New York	National Guard	Ronkonkoma Readiness Center/AASF #1	Underway	202209			PA/SI Underway	98	0	0
Army	New York	BRAC	Seneca Army Ammunition Plant	Underway	202212	Planned		PA/SI Underway	1,955	1,544	0
Army	New York	Active	Watervliet Arsenal	Underway	202203	Planned		PA/SI Underway	322	1,228	324
Army	New York	Active	West Point	Underway	202203			PA/SI Underway	574	0	0
Army	North Carolina	Active	Fort Bragg	Underway	202203	Planned		PA/SI Underway	728	3,644	202
Army	North Carolina	Active	Fort Bragg - Camp Mackall	Underway	202203			PA/SI Underway	106	0	0
Army	North Carolina	Active	Military Ocean Terminal Sunny Point	Complete		Planned		PA/SI Completed - RI Planned	196	882	252
Army	North Carolina	National Guard	Morrisville AASF #1	Underway	202209			PA/SI Underway	85	0	0
Army	North Carolina	National Guard	Salisbury AASF #2	Underway	202206	Planned		PA/SI Underway	85	0	0
Army	North Carolina	Active	Tarheel Army Missile Plant	Underway	202303			PA/SI Underway	0	0	0
Army	North Dakota	National Guard	Bismarck AASF Complex	Underway	202206	Planned		PA/SI Underway	103	0	0
Army	North Dakota	National Guard	Fargo AASF #2	Underway	202211			PA/SI Underway	103	0	0
Army	Ohio	National Guard	Green Armory AASF#1	Underway	202206			PA/SI Underway	85	0	0
Army	Ohio	Active	Lima Army Tank Plant	Complete				PA/SI Completed - No Further Action	138	0	0
Army	Ohio	National Guard	Mansfield LAHM Fire Station	Complete				PA/SI Completed - No Further Action	15	0	0
Army	Ohio	National Guard	Rickenbacker (MTA) - AASF #2	Underway	202206			PA/SI Underway	135	0	0
Army	Oklahoma	Active	Fort Sill	Underway	202203	Planned		PA/SI Underway	347	0	2,140
Army	Oklahoma	National Guard	Lexington AASF #1	Underway	202301			PA/SI Underway	135	0	0

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Army	Oklahoma	Active	McAlester Army Ammunition Plant	Underway	202206	Planned		PA/SI Underway	337	492	0
Army	Oklahoma	National Guard	Tulsa AASF #2	Underway	202301			PA/SI Underway	135	0	0
Army	Oregon	National Guard	Bend COTEF (Youth Challenge)	Complete				PA/SI Completed - No Further Action	15	0	0
Army	Oregon	National Guard	Biak Training Areas Brett Hall	Underway	202303			PA/SI Underway	180	0	0
Army	Oregon	National Guard	Camp Adair Corvallis	Underway	202205			PA/SI Underway	104	0	0
Army	Oregon	National Guard	Central Oregon Unit Training Equipment Site	Underway	202205			PA/SI Underway	103	0	0
Army	Oregon	National Guard	Christmas Valley Radar Site	Complete				PA/SI Completed - No Further Action	15	0	0
Army	Oregon	National Guard	McNary Field Salem AASF	Complete		Underway	202609	PA/SI Completed - RI Underway	1,363	0	72
Army	Oregon	National Guard	MTA Camp Rilea	Underway	202210			PA/SI Underway	180	0	0
Army	Oregon	National Guard	Pang Base Enclave	Complete				PA/SI Completed - No Further Action	15	0	0
Army	Oregon	National Guard	Pendleton Complex Armory / AASF	Underway	202302			PA/SI Underway	180	0	0
Army	Oregon	BRAC	Umatilla Chemical Depot	Underway	202212			PA/SI Underway	139	2,113	0
Army	Oregon	National Guard	Umatilla Depot	Underway	202302			PA/SI Underway	180	0	0
Army	Pennsylvania	Active	Carlisle Barracks	Underway	202206	Planned		PA/SI Underway	242	0	0
Army	Pennsylvania	National Guard	Fort Indiantown Gap	Complete		Underway	202609	PA/SI Completed - RI Underway	1,406	0	88
Army	Pennsylvania	National Guard	Johnstown AASF #2/Readiness Center	Underway	202303			PA/SI Underway	135	0	0
Army	Pennsylvania	BRAC	Letterkenny Army Depot	Underway	202206			PA/SI Underway	13	0	0
Army	Pennsylvania	Active	Letterkenny Army Depot	Underway	202206	Planned		PA/SI Underway	339	817	295
Army	Pennsylvania	BRAC	N Penn	Complete		Underway	202309	PA/SI Completed - RI Underway	4,396	1,222	0
Army	Pennsylvania	Active	Scranton Army Ammunition Plant	Underway	202303			PA/SI Underway	72	0	0
Army	Pennsylvania	Active	Tobyhanna Army Depot	Underway	202203	Planned		PA/SI Underway	400	703	33
Army	Puerto Rico	National Guard	AASF PR	Underway	202209			PA/SI Underway	103	47	0
Army	Puerto Rico	National Guard	Camp Santiago Joint Maneuver Training Center	Underway	202209			PA/SI Underway	60	47	0
Army	Puerto Rico	National Guard	Fort Allen	Underway	202209			PA/SI Underway	48	47	0
Army	Puerto Rico	Active	Fort Buchanan	Underway	202203	Planned		PA/SI Underway	297	410	312
Army	Puerto Rico	National Guard	Gurabo Readiness Center	Complete				PA/SI Completed - No Further Action	15	0	0
Army	Puerto Rico	National Guard	Mayaguez Readiness Center	Complete				PA/SI Completed - No Further Action	15	0	0
Army	Puerto Rico	National Guard	Vega Baja Readiness Center	Underway	202209			PA/SI Underway	103	47	0
Army	Puerto Rico	National Guard	Watercraft Maintenance Support Center	Complete				PA/SI Completed - No Further Action	15	0	0
Army	Rhode Island	National Guard	North Smithfield	Complete				PA/SI Completed - No Further Action	15	0	0
Army	Rhode Island	National Guard	Quonset Point-AASF	Underway	202204	Planned		PA/SI Underway	103	0	0

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Army	South Carolina	National Guard	AASF Upstate	Underway	202211			PA/SI Underway	85	0	0
Army	South Carolina	National Guard	Allendale Armory	Underway	202212			PA/SI Underway	180	0	0
Army	South Carolina	Active	Fort Jackson	Underway	202203	Planned		PA/SI Underway	521	483	967
Army	South Carolina	National Guard	McCrary Training Site	Underway	202212			PA/SI Underway	181	0	0
Army	South Carolina	National Guard	McEntire ANG AASF	Underway	202212			PA/SI Underway	85	0	0
Army	South Dakota	National Guard	Joint Forces Headquarters SD	Complete				PA/SI Completed - No Further Action	85	0	0
Army	South Dakota	National Guard	Rapid City Airport Complex	Underway	202206			PA/SI Underway	104	0	0
Army	Tennessee	National Guard	AASF #2 TN	Underway	202212			PA/SI Underway	180	0	0
Army	Tennessee	BRAC	DDMT	Underway	202212			PA/SI Underway	140	1,719	0
Army	Tennessee	Active	Holston Army Ammunition Plant	Underway	202209			PA/SI Underway	258	0	0
Army	Tennessee	National Guard	Jackson Airport Armory/AASF #3	Underway	202212			PA/SI Underway	80	0	0
Army	Tennessee	National Guard	Joint Base Berry Field	Complete				PA/SI Completed - No Further Action	10	0	0
Army	Tennessee	Active	Milan Army Ammunition Plant	Complete				PA/SI Completed - No Further Action	382	0	0
Army	Tennessee	Active	Volunteer Army Ammunition Plant	Underway	202209			PA/SI Underway	0	0	0
Army	Tennessee	National Guard	VTS Smyrna	Underway	202212			PA/SI Underway	211	0	0
Army	Texas	National Guard	Austin Bergstrom Hangar	Underway	202205	Planned		PA/SI Underway	86	0	0
Army	Texas	National Guard	El Campo	Underway	202201			PA/SI Underway	145	0	0
Army	Texas	National Guard	Ellington Field	Underway	202212			PA/SI Underway	85	0	0
Army	Texas	Active	Fort Bliss	Underway	202203	Planned		PA/SI Underway	603	0	1,416
Army	Texas	Active	Fort Hood	Underway	202203	Planned		PA/SI Underway	548	575	1,240
Army	Texas	National Guard	Grand Prairie (DNAS)	Underway	202202	Planned		PA/SI Underway	85	0	0
Army	Texas	BRAC	Lone Star AAP	Underway	202212			PA/SI Underway	148	2,113	0
Army	Texas	Active	Longhorn Army Ammunition Plant	Underway	202303			PA/SI Underway	0	0	0
Army	Texas	National Guard	Martindale - AASF	Underway	202210			PA/SI Underway	180	0	0
Army	Texas	Active	Red River Army Depot	Underway	202203	Planned		PA/SI Underway	404	0	382
Army	Texas	BRAC	Red River Army Depot	Underway	202212			PA/SI Underway	148	2,113	0
Army	Texas	National Guard	Saginaw Burn Pit Area	Underway	202309			PA/SI Underway	0	50	0
Army	Utah	National Guard	AASF-E.J. Garn Aviation Complex	Underway	202208			PA/SI Underway	210	0	0
Army	Utah	National Guard	Camp Williams	Underway	202309			PA/SI Underway	0	0	0
Army	Utah	Active	Dugway Proving Ground	Underway	202203	Planned		PA/SI Underway	524	3,941	468
Army	Utah	National Guard	Sustained Airborne TNG FAC	Underway	202210			PA/SI Underway	180	0	0
Army	Utah	Active	Tooele Army Depot	Underway	202203	Planned		PA/SI Underway	524	1,043	320
Army	Utah	BRAC	Tooele Army Depot	Underway	202212			PA/SI Underway	156	2,155	0
Army	Utah	Active	Tooele Army Depot South (Deseret Chemical Depot)	Underway	202203	Planned		PA/SI Underway	351	736	285
Army	Utah	National Guard	Wendover Airport - AVFAC	Underway	202210			PA/SI Underway	135	0	0
Army	Utah	Active	White Sands Missile Range - Green River Test Site	Underway	202203			PA/SI Underway	68	0	0



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Army	Vermont	National Guard	JFHQ Camp Johnson	Complete				PA/SI Completed - No Further Action	15	0	0
Army	Vermont	National Guard	South Burlington AASF / Readiness Center	Complete				PA/SI Completed - No Further Action	15	0	0
Army	Vermont	National Guard	TS Ethan Allen Range	Complete				PA/SI Completed - No Further Action	23	0	0
Army	Virgin Islands	National Guard	AAOF Blair Hangar	Underway	202209			PA/SI Underway	103	0	0
Army	Virginia	National Guard	AASF Byrd Field	Underway	202303			PA/SI Underway	180	0	0
Army	Virginia	National Guard	Camp Pendleton SMR	Underway	202205			PA/SI Underway	103	0	0
Army	Virginia	National Guard	Chesterfield Limited AASF	Underway	202204			PA/SI Underway	103	0	0
Army	Virginia	Active	Fort AP Hill	Underway	202203	Planned		PA/SI Underway	468	574	248
Army	Virginia	Active	Fort Belvoir	Underway	202203	Planned		PA/SI Underway	455	1,003	311
Army	Virginia	Active	Fort Lee	Underway	202203	Planned		PA/SI Underway	326	351	233
Army	Virginia	BRAC	Fort Monroe	Underway	202212			PA/SI Underway	148	2,145	0
Army	Virginia	BRAC	Fort Pickett	Underway	202212			PA/SI Underway	139	2,145	0
Army	Virginia	National Guard	Fort Pickett MTC	Underway	202207			PA/SI Underway	156	0	0
Army	Virginia	National Guard	Ft. Belvoir AASF	Complete				PA/SI Completed - Additional Work will be Combined with Work Being Conducted at Another Installation	85	0	0
Army	Virginia	Active	JB Myer Henderson Hall	Underway	202303			PA/SI Underway	145	0	0
Army	Virginia	Active	Radford Army Ammunition Plant	Underway	202209	Planned		PA/SI Underway	299	258	237
Army	Virginia	BRAC	Vint Hill Farms	Complete		Underway	202503	PA/SI Completed - RI Underway	5,399	3,991	0
Army	Washington	National Guard	AASF #2 WA	Complete				PA/SI Completed - No Further Action	15	0	0
Army	Washington	National Guard	Bremerton	Complete				PA/SI Completed - No Further Action	15	0	0
Army	Washington	BRAC	Camp Bonneville	Underway	202212			PA/SI Underway	0	2,113	0
Army	Washington	National Guard	Camp Murray	Complete				PA/SI Completed - No Further Action	15	0	0
Army	Washington	Active	JB Lewis McChord	Complete		Underway	202509	PA/SI Completed - RI Underway	3,873	0	0
Army	Washington	Active	JB Lewis McChord - Yakima Training Center	Complete		Planned		PA/SI Completed - RI Planned	315	2,000	309
Army	West Virginia	National Guard	CTC Camp Dawson-Kingwood	Underway	202209			PA/SI Underway	98	55	0
Army	West Virginia	National Guard	Fixed wing AAS	Underway	202209			PA/SI Underway	103	0	0
Army	West Virginia	National Guard	Parkersburg AASF #1	Underway	202209			PA/SI Underway	103	47	0
Army	West Virginia	National Guard	Wheeling - AASF #2	Underway	202209			PA/SI Underway	53	47	0
Army	Wisconsin	Active	Badger Army Ammunition Plant	Complete				PA/SI Completed - No Further Action	0	0	0
Army	Wisconsin	Active	Fort McCoy	Complete		Planned		PA/SI Completed - RI Planned	321	363	1,451
Army	Wisconsin	National Guard	Madison AASF #2	Underway	202210			PA/SI Underway	103	0	0

# Appendix: Per- and Polyfluoroalkyl Substances Cleanup: Schedule, Status, and Cost Estimates by DoD Installation

DoD Component	State/Territory	Installation Type	Installation Name	PA/SI Status	Estimated PA/SI End Date	RI/FS Status	Estimated RI/FS End Date	Cleanup Status as of December 31, 2021	Actual Obligations Through FY 2021 (\$000)	Planned Obligations in FY 2022 (\$000)	Planned Obligations after FY 2022 (\$000)*
Army	Wisconsin	National Guard	West Bend AASF #1 / Armory	Underway	202203	Underway	202609	PA/SI and RI Underway	787	0	72
Army	Wyoming	National Guard	Casper	Complete				PA/SI Completed - No Further Action	10	0	0
Army	Wyoming	National Guard	Cheyenne AASF	Complete				PA/SI Completed - No Further Action	110	0	0
Army	Wyoming	National Guard	MTCH Camp Guernsey	Underway	202303			PA/SI Underway	187	0	0
Army	N/A	N/A	N/A - Program Management^						10,339	1,420	0
<b>Army Funding Subtotals:</b>									<b>124,948</b>	<b>141,635</b>	<b>71,888</b>
Navy	Alaska	BRAC	Adak AK NAF	Underway	202209			PA/SI Underway	833	0	0
Navy	Alaska	Active	AMCHITKA AK FLTSURSPTDET1	Underway	202208			PA/SI Underway	395	0	0
Navy	Alaska	Active	BARROW AK NARL	Underway	202305	Underway	202603	PA/SI and RI Underway	1,734	0	503
Navy	Arizona	Active	YUMA AZ MCAS	Complete		Underway	202305	PA/SI Completed - RI Underway	2,990	0	0
Navy	California	BRAC	ALAMEDA NAS	Underway	202309	Underway	202308	PA/SI and RI Underway	1,760	100	5,000
Navy	California	Active	AZUSA CA NCCOSC MORRIS DA	Underway	202302	Underway	202312	PA/SI and RI Underway	1,455	0	0
Navy	California	Active	BARSTOW CA MCLB	Complete		Underway	202306	PA/SI Completed - RI Underway	2,321	59	119
Navy	California	Active	CAMP PENDLETON CA MCB	Underway	202309	Underway	202412	PA/SI and RI Underway	2,223	0	0
Navy	California	Active	CHINA LAKE CA NAWCWPNSDIV	Underway	202204	Underway	202507	PA/SI and RI Underway	3,479	0	5,513
Navy	California	BRAC	Concord NWS	Underway	202309			PA/SI Underway	818	0	0
Navy	California	BRAC	Crows NALF	Underway	202309			PA/SI Underway	217	0	1,000
Navy	California	Active	EL CENTRO CA NAF	Underway	202208	Planned		PA/SI Underway	297	2,084	0
Navy	California	BRAC	El Toro MCAS	Complete		Underway	202703	PA/SI Completed - RI Underway	928	3,750	2,000
Navy	California	BRAC	Hunters Point Annex	Underway	202309			PA/SI Underway	473	0	0
Navy	California	Active	IMPERIAL BEACH CA NAVALF	Underway	202206	Planned		PA/SI Underway	452	0	1,559
Navy	California	Active	LEMOORE CA NAS	Complete		Underway	202403	PA/SI Completed - RI Underway	2,173	0	0
Navy	California	BRAC	Long Beach NS	Underway	202309			PA/SI Underway	30	0	0
Navy	California	BRAC	Long Beach NSY	Underway	202309			PA/SI Underway	30	0	0
Navy	California	BRAC	Mare Island NSY	Underway	202309			PA/SI Underway	1,072	0	0
Navy	California	Active	MIRAMAR CA MCAS	Underway	202210	Planned		PA/SI Underway	1,777	0	1,508
Navy	California	BRAC	Moffett Field NAS	Complete	202202			PA/SI Completed - Additional Work will be Combined with Work Being Conducted by Another Federal Agency	45	0	0

## Appendix: Per- and Polyfluoroalkyl Substances Cleanup: Schedule, Status, and Cost Estimates by DoD Installation

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Navy	California	Active	NAS PT MUGU CA NAVAIRWARC	Complete		Underway	202412	PA/SI Completed - RI Underway	1,828	0	0
Navy	California	Active	NAVBASE CORONADO	Underway	202203	Underway	202509	PA/SI and RI Underway	1,728	0	2,318
Navy	California	Active	NAVBASE SAN DIEGO	Complete		Planned		PA/SI Completed - RI Planned	475	1,439	60
Navy	California	Active	NAVCOMTELSTA STOCKTON	Underway	202209	Underway	202407	PA/SI and RI Underway	760	1,458	0
Navy	California	BRAC	Point Molate NFD	Underway	202308			PA/SI Underway	30	0	0
Navy	California	Active	PORT HUENEME CA NFELC	Complete		Underway	202503	PA/SI Completed - RI Underway	823	0	0
Navy	California	Active	SAN DIEGO CA AUXLNDFLD	Underway	202208	Planned		PA/SI Underway	282	431	0
Navy	California	Active	SAN DIEGO CA FASWTC PAC	Underway	202209	Planned		PA/SI Underway	212	926	0
Navy	California	Active	SAN DIEGO CA NISE-WEST	Underway	202209	Planned		PA/SI Underway	212	965	0
Navy	California	Active	SAN NICOLAS IS CA OLF	Underway	202303			PA/SI Underway	395	0	0
Navy	California	Active	SEAL BEACH CA WPNSUPFAC	Underway	202206	Planned		PA/SI Underway	1,346	0	1,457
Navy	California	Active	SPAWARSSYSCEN PACIFIC SD	Underway	202209			PA/SI Underway	709	0	0
Navy	California	BRAC	Treasure Island NS	Underway	202309	Underway	202409	PA/SI and RI Underway	2,671	100	370
Navy	California	BRAC	Tustin MCAS	Complete		Underway	202703	PA/SI Completed - RI Underway	2,502	3,000	2,000
Navy	California	Active	TWENTYNINE PALMS CA MAGCC	Underway	202308	Underway	202309	PA/SI and RI Underway	3,710	0	0
Navy	Connecticut	Active	BLOOMFIELD CT NWIRP	Complete				PA/SI Completed - No Further Action	0	0	0
Navy	Connecticut	Active	NEW LONDON CT NSB	Underway	202211	Underway	202802	PA/SI and RI Underway	604	0	669
Navy	District of Colum	Active	WASHINGTON DC COMNAVDIST	Underway	202209			PA/SI Underway	15	0	0
Navy	District of Colum	Active	WASHINGTON DC NAVSECSTA	Complete				PA/SI Completed - No Further Action	42	0	0
Navy	District of Colum	Active	WASHINGTON DC NRL	Underway	202309	Planned		PA/SI Underway	260	0	504
Navy	Florida	BRAC	Cecil Field NAS	Underway	202209			PA/SI Underway	854	0	0
Navy	Florida	Active	CID CORRY STATION	Underway	202208	Planned		PA/SI Underway	1,368	0	1,109
Navy	Florida	Active	FISC JAX (NWCF)	Complete		Planned		PA/SI Completed - RI Planned	50	0	0
Navy	Florida	Active	JACKSONVILLE FL NAS	Underway	202209	Underway	202708	PA/SI and RI Underway	4,150	788	2,331
Navy	Florida	Active	KEY WEST FL NAS	Underway	202208	Planned		PA/SI Underway	426	0	2,423
Navy	Florida	BRAC	KEY WEST FL NAS	Underway	202203			PA/SI Underway	45	0	0
Navy	Florida	Active	MAYPORT FL NS	Complete		Planned		PA/SI Completed - RI Planned	806	0	2,203
Navy	Florida	Active	NSWC DIV PANAMA CITY	Underway	202209	Planned		PA/SI Underway	125	0	759
Navy	Florida	BRAC	Orlando NTC	Underway	202209			PA/SI Underway	295	0	0

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DoD Component	State/Territory	Installation Type	Installation Name	PA/SI Status	Estimated PA/SI End Date	RI/FS Status	Estimated RI/FS End Date	Cleanup Status as of December 31, 2021	Actual Obligations Through FY 2021 (\$000)	Planned Obligations in FY 2022 (\$000)	Planned Obligations after FY 2022 (\$000)*
Navy	Florida	Active	PENSACOLA FL NAS	Underway	202209	Underway	202706	PA/SI and RI Underway	4,100	186	2,946
Navy	Florida	Active	SAUFLEY FLD FL NAS	Underway	202208	Planned		PA/SI Underway	3,258	0	1,307
Navy	Florida	Active	WHITING FLD FL NAS	Underway	202210	Planned		PA/SI Underway	2,773	0	8,776
Navy	Georgia	Active	ALBANY GA MCLB	Underway	202203	Planned		PA/SI Underway	545	0	818
Navy	Georgia	Active	KINGS BAY GA NSB	Underway	202207	Planned		PA/SI Underway	446	1,537	799
Navy	Guam	BRAC	Guam Agana NAS	Underway	202208			PA/SI Underway	172	0	0
Navy	Guam	Active	GUAM NAVACTS	Underway	202308	Planned		PA/SI Underway	5,977	0	2,437
Navy	Guam	Active	NSA ANDERSEN GUAM	Underway	202309	Underway	202610	PA/SI and RI Underway	2,937	0	2,251
Navy	Hawaii	Active	BARBERS POINT HI NAS	Underway	202303			PA/SI Underway	199	0	0
Navy	Hawaii	BRAC	Barbers Point NAS	Underway	202203			PA/SI Underway	310	0	0
Navy	Hawaii	Active	BARKING SANDS HI PMRF	Underway	202303	Planned		PA/SI Underway	413	114	2,793
Navy	Hawaii	Active	JBPHH PEARL HARBOR HI	Underway	202303	Planned		PA/SI Underway	1,325	283	3,210
Navy	Hawaii	Active	KANEOHE BAY HI MCB	Underway	202303	Planned		PA/SI Underway	541	138	1,070
Navy	Hawaii	Active	NAVFAC HAWAII P HARBOR	Underway	202206	Underway	202306	PA/SI and RI Underway	394	0	0
Navy	Hawaii	Active	NMC EAD DET PEARL HARBOR	Underway	202303			PA/SI Underway	532	0	0
Navy	Hawaii	Active	PEARL HARBOR HI FISC	Underway	202206	Underway	202312	PA/SI and RI Underway	483	0	0
Navy	Hawaii	Active	PEARL HARBOR HI NSY	Underway	202303	Planned		PA/SI Underway	418	0	1,070
Navy	Illinois	BRAC	Glenview NAS	Underway	202309			PA/SI Underway	310	0	0
Navy	Illinois	Active	GREAT LAKES IL NSTC	Underway	202309	Planned		PA/SI Underway	512	0	665
Navy	Indiana	BRAC	Indianapolis	Underway	202309			PA/SI Underway	660	0	0
Navy	Indiana	Active	NAVSURFWARCENDIV CRANE	Underway	202212	Planned		PA/SI Underway	725	0	1,357
Navy	Kentucky	BRAC	Louisville Crane Division Det NOS/NSWC	Underway	202304			PA/SI Underway	520	0	0
Navy	Louisiana	Active	NEW ORLEANS LA NAS JRB	Underway	202304	Underway	202309	PA/SI and RI Underway	5,196	0	0
Navy	Maine	BRAC	Brunswick NAS	Complete		Underway	202212	PA/SI Completed - RI Underway	6,262	1,024	12,363
Navy	Maine	Active	NCTAMSLANT DET CUTLER	Underway	202209	Underway	202806	PA/SI and RI Underway	1,718	1,305	739
Navy	Maine	Active	PORTS NSYD PORTS NH	Underway	202306			PA/SI Underway	278	0	110
Navy	Maryland	Active	ANNAPOLIS MD NS	Underway	202209			PA/SI Underway	156	0	0
Navy	Maryland	BRAC	Annapolis NSWC Carderock DIV Det	Complete		Underway	202409	PA/SI Completed - RI Underway	1,116	0	0
Navy	Maryland	Active	BAINBRIDGE MD NTC	Underway	202203			PA/SI Underway	42	0	0
Navy	Maryland	Active	CHESAPEAKE BEACH MD RESLB	Underway	202308	Underway	202508	PA/SI and RI Underway	1,406	0	2,915
Navy	Maryland	Active	INDIAN HEAD MD NSWCTRDIV	Underway	202309	Planned		PA/SI Underway	454	0	0
Navy	Maryland	Active	NAVSURFWARCEN WBETH DD	Underway	202309	Planned		PA/SI Underway	260	0	221

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Navy	Maryland	Active	PATUXENT RIVER MD NAS	Underway	202202	Underway	203010	PA/SI and RI Underway	6,998	344	1,471
Navy	Maryland	Active	SOLOMONS MD NRECC	Underway	202203			PA/SI Underway	127	0	0
Navy	Maryland	Active	ST INIGOES MD NAVELEXSYS	Complete		Underway	203007	PA/SI Completed - RI Underway	959	0	196
Navy	Maryland	Active	W REED NAT MIL MED CTR	Complete				PA/SI Completed - No Further Action	62	0	0
Navy	Maryland	BRAC	White Oak- NSWDC Dahlgren DIV Det (Silver Spring)	Underway	202309			PA/SI Underway	785	0	0
Navy	Massachusetts	Active	BEDFORD MA NWRIP	Underway	202306			PA/SI Underway	36	6	0
Navy	Massachusetts	BRAC	South Weymouth NAS	Complete		Underway	202409	PA/SI Completed - RI Underway	4,624	6,097	22,588
Navy	Midway Islands	BRAC	MIDWAY ISLAND NAF	Underway	202309			PA/SI Underway	45	0	0
Navy	Minnesota	Active	MINNEAPOLIS MN NIROP	Underway	202208			PA/SI Underway	50	0	0
Navy	Mississippi	Active	GULFPORT MS NCBC	Underway	202212	Planned		PA/SI Underway	1,283	1,477	777
Navy	Mississippi	Active	MERIDIAN MS NAS	Complete		Underway	202806	PA/SI Completed - RI Underway	6,581	0	9,652
Navy	Missouri	Active	KANSAS CITY MO	Complete				PA/SI Completed - No Further Action	179	0	0
Navy	Missouri	BRAC	KANSAS CITY MO	Underway	202309			PA/SI Underway	45	0	0
Navy	Nevada	Active	FALLON NV NAS	Complete		Underway	202309	PA/SI Completed - RI Underway	2,659	0	0
Navy	New Jersey	Active	NMC DET EARLE	Underway	202306	Underway	203006	PA/SI and RI Underway	1,835	1,293	1,596
Navy	New Jersey	BRAC	Trenton NAWC-AD	Underway	202204	Underway	202312	PA/SI and RI Underway	2,897	80	3,160
Navy	New York	Active	BETHPAGE NY NWIRP	Underway	202209			PA/SI Underway	137	0	0
Navy	New York	Active	CALVERTON NY NPRO	Underway	202209	Underway	202806	PA/SI and RI Underway	7,317	809	1,348
Navy	North Carolina	Active	CAMP LEJEUNE NC MCB	Underway	202207	Underway	202908	PA/SI and RI Underway	5,132	5,449	15,890
Navy	North Carolina	Active	CHERRY POINT NC MCAS	Underway	202305	Planned		PA/SI Underway	7,106	0	1,535
Navy	Pennsylvania	Active	MECHANICSBURG PA NAVICP	Underway	202211	Planned		PA/SI Underway	943	2,773	4,243
Navy	Pennsylvania	BRAC	Philadelphia NS	Underway	202306	Planned		PA/SI Underway	152	551	0
Navy	Pennsylvania	BRAC	Warminster NAWC AD	Complete		Underway	202409	PA/SI Completed - RI Underway	29,470	300	29,433
Navy	Pennsylvania	BRAC	Willow Grove NASJRB	Complete		Underway	202409	PA/SI Completed - RI Underway	53,466	9,189	44,871
Navy	Puerto Rico	BRAC	Puerto Rico NA/NAVACT	Underway	202209			PA/SI Underway	687	0	0
Navy	Puerto Rico	Active	ROOSEVELT ROADS RQ CGARCA	Underway	202308	Planned		PA/SI Underway	1,367	0	5,377
Navy	Puerto Rico	Active	SAN JUAN PR MCRC	Underway	202309			PA/SI Underway	385	0	0
Navy	Rhode Island	BRAC	DAVISVILLE_NCBC	Complete				PA/SI Completed - No Further Action	66	0	0
Navy	Rhode Island	Active	NEWPORT RI NETC	Underway	202303	Underway	202711	PA/SI and RI Underway	1,703	131	1,299

## Appendix: Per- and Polyfluoroalkyl Substances Cleanup: Schedule, Status, and Cost Estimates by DoD Installation

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Navy	South Carolina	Active	BEAUFORT SC MCAS	Underway	202212	Underway	203310	PA/SI and RI Underway	1,406	771	1,670
Navy	South Carolina	BRAC	Charleston NS	Underway	202309			PA/SI Underway	755	0	0
Navy	South Carolina	BRAC	Charleston NSY	Underway	202309			PA/SI Underway	150	0	0
Navy	South Carolina	Active	PARRIS ISLAND SC MCRD	Underway	202309	Underway	203005	PA/SI and RI Underway	626	0	5,402
Navy	Tennessee	Active	BRISTOL TN NWIRP	Complete				PA/SI Completed - No Further Action	177	0	0
Navy	Tennessee	BRAC	Memphis NAS (Millington)	Underway	202203			PA/SI Underway	569	266	0
Navy	Tennessee	Active	MILLINGTON TN SUPPACT	Complete				PA/SI Completed - No Further Action	204	0	0
Navy	Texas	BRAC	Chase Field NAS	Underway	202203			PA/SI Underway	1,956	877	5,188
Navy	Texas	Active	CORPUS CHRISTI TX NAS	Underway	202308	Planned		PA/SI Underway	1,289	459	2,331
Navy	Texas	BRAC	Dallas NAS	Complete		Underway	202309	PA/SI Completed - RI Underway	894	0	5,000
Navy	Texas	Active	DALLAS TX NWIRP	Underway	202203	Planned		PA/SI Underway	264	0	778
Navy	Texas	Active	FT WORTH TX NAS JRB	Underway	202204	Planned		PA/SI Underway	538	0	2,427
Navy	Texas	Active	KINGSVILLE TX NAS	Underway	202308	Planned		PA/SI Underway	376	459	2,338
Navy	Texas	Active	MCLENNAN TX NIROP	Underway	202206	Planned		PA/SI Underway	262	0	1,525
Navy	Virginia	Active	CHESAPEAKE VA NSGA NW	Underway	202206	Underway	202509	PA/SI and RI Underway	1,284	0	0
Navy	Virginia	Active	CHESAPEAKE VA STJULCREEK	Underway	202303	Planned		PA/SI Underway	559	0	2,500
Navy	Virginia	Active	CRANEY ISLAND VA NFD/NSC	Underway	202211	Planned		PA/SI Underway	0	0	515
Navy	Virginia	Active	DAHLGREN VA NSWCTR DIV	Underway	202210	Planned		PA/SI Underway	273	0	338
Navy	Virginia	Active	DAM NECK VA	Underway	202201	Planned		PA/SI Underway	1,072	0	2,598
Navy	Virginia	BRAC	Driver NRTF	Complete				PA/SI Completed - No Further Action	314	0	0
Navy	Virginia	Active	LITTLE CREEK VA NAVPHIBSE	Underway	202309	Planned		PA/SI Underway	2,188	0	2,350
Navy	Virginia	Active	NMC DET YORKTOWN	Underway	202211	Planned		PA/SI Underway	588	0	2,601
Navy	Virginia	Active	NORFOLK VA FISC	Underway	202203	Planned		PA/SI Underway	266	0	566
Navy	Virginia	Active	NORFOLK VA NB	Underway	202309	Planned		PA/SI Underway	1,000	0	9,261
Navy	Virginia	Active	OCEANA VA NAS	Underway	202208	Underway	203104	PA/SI and RI Underway	18,466	491	13,227
Navy	Virginia	Active	PORTSMOUTH VA NORFOLK NSY	Underway	202309	Planned		PA/SI Underway	1,157	0	3,501
Navy	Virginia	Active	QUANTICO VA MCCOMBDEV CMD	Underway	202309	Planned		PA/SI Underway	1,010	0	628
Navy	Virginia	Active	WILLIAMSBURG VA FISC CA	Underway	202309	Planned		PA/SI Underway	599	455	2,000
Navy	Washington	Active	BREMERTON WA NAVBASE	Underway	202301	Planned		PA/SI Underway	4,260	0	4,575
Navy	Washington	Active	BREMERTON PUGTSND WA FISC	Underway	202210			PA/SI Underway	577	0	0



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Navy	Washington	Active	INDIAN ISLAND WA NAVMAG	Underway	202301			PA/SI Underway	1,666	0	0
Navy	Washington	Active	KEYPORT WA NUWC DIV	Underway	202212	Underway	202612	PA/SI and RI Underway	5,843	1,586	1,555
Navy	Washington	Active	MANCHESTER WA FUELDPTPSND	Underway	202301	Planned		PA/SI Underway	851	0	569
Navy	Washington	Active	PUGET SOUND WA NAVSHIPYD	Underway	202301			PA/SI Underway	5,289	0	0
Navy	Washington	BRAC	Puget Sound NS Sand Point	Complete				PA/SI Completed - No Further Action	45	0	0
Navy	Washington	Active	WHIDBEY IS WA NAS	Underway	202207	Underway	203103	PA/SI and RI Underway	36,877	649	23,949
Navy	West Virginia	Active	ROCKET CTR WVA WV ABL MNR	Underway	202201	Planned		PA/SI Underway	447	0	1,000
Navy	N/A	N/A	N/A - Program Management^						115	0	32,327
<b>Navy Funding Subtotals:**</b>									<b>327,972</b>	<b>54,199</b>	<b>353,407</b>
Air Force	Alabama	National Guard	Birmingham International Airport	Underway	202209	Planned		PA/SI Underway	80	0	1,383
Air Force	Alabama	Active	Maxwell-Gunter AFB	Underway	202309	Planned		PA/SI Underway	1,599	1,448	1,593
Air Force	Alabama	National Guard	Montgomery Regional (Dannelly Field) MONTGOMERY ANGB (EESOH-MIS name)	Underway	202209	Planned		PA/SI Underway	87	0	1,383
Air Force	Alaska	Active	Clear Air Force Station	Complete		Planned		PA/SI Completed - RI Planned	1,060	0	2,620
Air Force	Alaska	Active	Eareckson AFS	Complete		Underway	202609	PA/SI Completed - RI Underway	5,495	0	764
Air Force	Alaska	Active	Eielson AFB	Complete		Underway	202608	PA/SI Completed - RI Underway	80,295	2,618	4,838
Air Force	Alaska	BRAC	Galena Forward Operating Location	Complete		Underway	202609	PA/SI Completed - RI Underway	3,431	0	23,524
Air Force	Alaska	Active	Joint Base Elmendorf-Richardson	Underway	202309	Underway	202609	PA/SI and RI Underway	6,686	1,143	706
Air Force	Alaska	Active	King Salmon	Complete		Underway	202509	PA/SI Completed - RI Underway	1,513	0	0
Air Force	Alaska	BRAC	Kulis Air National Guard Base	Complete		Underway	202609	PA/SI Completed - RI Underway	3,658	0	7,271
Air Force	Arizona	Active	Air Force Plant 44	Underway	202203	Planned		PA/SI Underway	997	1,192	0
Air Force	Arizona	BRAC	Air Force Research Laboratory Mesa	Complete				PA/SI Completed - No Further Action	74	0	0
Air Force	Arizona	Active	Davis-Monthan AFB	Underway	202209	Underway	202606	PA/SI and RI Underway	10,153	0	118
Air Force	Arizona	Active	Luke AFB	Underway	202309	Underway	202606	PA/SI and RI Underway	13,334	1,109	3,835
Air Force	Arizona	National Guard	Morris (Tucson International Airport)	Underway	202209	Underway	202609	PA/SI and RI Underway	3,623	47	45

## Appendix: Per- and Polyfluoroalkyl Substances Cleanup: Schedule, Status, and Cost Estimates by DoD Installation

DoD Component	State/Territory	Installation Type	Installation Name	PA/SI Status	Estimated PA/SI End Date	RI/FS Status	Estimated RI/FS End Date	Cleanup Status as of December 31, 2021	Actual Obligations Through FY 2021 (\$000)	Planned Obligations in FY 2022 (\$000)	Planned Obligations after FY 2022 (\$000)*
Air Force	Arizona	National Guard	Sky Harbor International Airport	Complete		Planned		PA/SI Completed - RI Planned	171	0	1,383
Air Force	Arizona	BRAC	Williams AFB	Complete		Planned		PA/SI Completed - RI Planned	1,997	4,729	24,055
Air Force	Arkansas	BRAC	Eaker AFB	Complete		Planned		PA/SI Completed - RI Planned	787	0	8,438
Air Force	Arkansas	National Guard	Ft. Smith	Complete		Planned		PA/SI Completed - RI Planned	129	0	1,383
Air Force	Arkansas	Active	Little Rock AFB	Underway	202309	Underway	202709	PA/SI and RI Underway	5,983	109	1,729
Air Force	California	Active	Air Force Plant 42	Underway	202309	Planned		PA/SI Underway	1,497	0	9,281
Air Force	California	Active	Beale AFB	Underway	202309	Underway	202709	PA/SI and RI Underway	4,936	73	2,664
Air Force	California	BRAC	Castle AFB	Complete		Underway	202609	PA/SI Completed - RI Underway	12,827	119	27,824
Air Force	California	National Guard	Channel Islands	Underway	202209	Planned		PA/SI Underway	292	0	2,929
Air Force	California	Active	Edwards AFB	Underway	202309	Underway	202609	PA/SI and RI Underway	7,364	0	211
Air Force	California	National Guard	Fresno Air Guard	Underway	202209	Planned		PA/SI Underway	391	0	2,929
Air Force	California	BRAC	George AFB	Complete		Planned		PA/SI Completed - RI Planned	1,211	2,461	15,437
Air Force	California	Active	Los Angeles AFB	Complete				PA/SI Completed - No Further Action	119	0	0
Air Force	California	BRAC	March AFB	Complete		Underway	202509	PA/SI Completed - RI Underway	16,081	317	14,243
Air Force	California	Active	March Air Reserve Base	Underway	202309	Underway	202509	PA/SI and RI Underway	3,974	0	190
Air Force	California	BRAC	Mather AFB	Complete		Underway	202609	PA/SI Completed - RI Underway	11,303	1,075	44,403
Air Force	California	BRAC	McClellan AFB	Complete		Planned		PA/SI Completed - RI Planned	1,435	0	10,140
Air Force	California	National Guard	Moffett Field	Underway	202209	Planned		PA/SI Underway	76	0	1,383
Air Force	California	BRAC	Norton AFB	Complete		Planned		PA/SI Completed - RI Planned	1,337	0	25,460
Air Force	California	BRAC	Onizuka Air Force Station	Complete				PA/SI Completed - No Further Action	59	0	0
Air Force	California	BRAC	Ontario Air Force Station	Complete				PA/SI Completed - No Further Action	74	0	0
Air Force	California	Active	Travis AFB	Underway	202309	Underway	202607	PA/SI and RI Underway	6,427	0	2,054
Air Force	California	Active	Vandenberg AFB	Underway	202309	Planned		PA/SI Underway	1,194	1,363	200
Air Force	Colorado	Active	Air Force Plant PJKS	Complete		Planned		PA/SI Completed - RI Planned	1,031	0	0
Air Force	Colorado	Active	Buckley AFB	Underway	202309	Underway	202606	PA/SI and RI Underway	7,386	0	287
Air Force	Colorado	BRAC	Buckley Annex	Complete				PA/SI Completed - No Further Action	49	0	0



## Appendix: Per- and Polyfluoroalkyl Substances Cleanup: Schedule, Status, and Cost Estimates by DoD Installation

DoD Component	State/Territory	Installation Type	Installation Name	PA/SI Status	Estimated PA/SI End Date	RI/FS Status	Estimated RI/FS End Date	Cleanup Status as of December 31, 2021	Actual Obligations Through FY 2021 (\$000)	Planned Obligations in FY 2022 (\$000)	Planned Obligations after FY 2022 (\$000)*
Air Force	Colorado	Active	Cheyenne Mountain Air Force Station	Complete				PA/SI Completed - No Further Action	422	0	0
Air Force	Colorado	BRAC	Lowry AFB	Complete		Planned		PA/SI Completed - RI Planned	230	0	750
Air Force	Colorado	Active	Peterson AFB	Complete		Underway	202606	PA/SI Completed - RI Underway	89,588	23,583	183,840
Air Force	Colorado	Active	Schriever AFB	Complete		Planned		PA/SI Completed - RI Planned	3,292	0	900
Air Force	Colorado	Active	USAF Academy	Complete		Underway	202709	PA/SI Completed - RI Underway	3,971	0	4,897
Air Force	Connecticut	National Guard	Bradley International Airport	Complete		Planned		PA/SI Completed - RI Planned	105	0	1,383
Air Force	Delaware	Active	Dover AFB	Underway	202203	Underway	202608	PA/SI and RI Underway	6,657	2,385	361
Air Force	Delaware	National Guard	New Castle	Underway	202209	Planned		PA/SI Underway	76	0	1,383
Air Force	District of Columbia	Active	JOINT BASE ANACOSTIA-BOLLING	Underway	202309	Planned		PA/SI Underway	156	0	0
Air Force	Florida	Active	Avon Park Air Force Reserve	Complete		Planned		PA/SI Completed - RI Planned	984	0	472
Air Force	Florida	Active	Cape Canaveral Air Force Station	Underway	202309	Planned		PA/SI Underway	2,450	0	1,388
Air Force	Florida	Active	Eglin AFB	Underway	202206	Underway	202609	PA/SI and RI Underway	4,761	0	139
Air Force	Florida	BRAC	Homestead AFB	Complete				PA/SI Completed - No Further Action	176	0	0
Air Force	Florida	Active	Homestead Air Reserve Base	Underway	202309	Underway	202709	PA/SI and RI Underway	6,924	0	3,942
Air Force	Florida	Active	Hurlburt Field	Underway	202203	Planned		PA/SI Underway	1,497	960	1,006
Air Force	Florida	National Guard	Jacksonville	Underway	202209	Planned		PA/SI Underway	291	2,720	1,383
Air Force	Florida	Active	MacDill AFB	Underway	202309	Planned		PA/SI Underway	1,497	8,024	222
Air Force	Florida	Active	Patrick AFB	Complete		Planned		PA/SI Completed - RI Planned	1,748	4,657	140
Air Force	Florida	Active	Tyndall AFB	Underway	202309	Planned		PA/SI Underway	682	6,351	0
Air Force	Georgia	Active	Air Force Plant 6	Underway	202309	Planned		PA/SI Underway	990	0	1,591
Air Force	Georgia	Active	Dobbins Air Reserve Base	Underway	202309	Underway	202609	PA/SI and RI Underway	1,982	0	157
Air Force	Georgia	Active	Moody AFB	Underway	202309	Underway	202609	PA/SI and RI Underway	1,677	0	0
Air Force	Georgia	Active	Robins AFB	Complete		Planned		PA/SI Completed - RI Planned	1,810	0	2,773
Air Force	Georgia	National Guard	Savannah International Airport	Complete		Planned		PA/SI Completed - RI Planned	323	2,720	2,929
Air Force	Hawaii	Active	Bellows Air Force Station	Complete				PA/SI Completed - No Further Action	128	0	0
Air Force	Idaho	National Guard	Boise	Underway	202209	Planned		PA/SI Underway	430	0	2,929
Air Force	Idaho	Active	Mountain Home AFB	Underway	202309	Underway	202607	PA/SI and RI Underway	4,440	0	2,475

## Appendix: Per- and Polyfluoroalkyl Substances Cleanup: Schedule, Status, and Cost Estimates by DoD Installation

DoD Component	State/Territory	Installation Type	Installation Name	PA/SI Status	Estimated PA/SI End Date	RI/FS Status	Estimated RI/FS End Date	Cleanup Status as of December 31, 2021	Actual Obligations Through FY 2021 (\$000)	Planned Obligations in FY 2022 (\$000)	Planned Obligations after FY 2022 (\$000)*
Air Force	Illinois	BRAC	Chanute AFB	Complete		Planned		PA/SI Completed - RI Planned	1,796	4,245	32,425
Air Force	Illinois	National Guard	Greater Peoria	Underway	202209	Underway	202509	PA/SI and RI Underway	1,945	0	45
Air Force	Illinois	BRAC	O'Hare Air Reserve Station	Complete		Planned		PA/SI Completed - RI Planned	939	0	15,939
Air Force	Illinois	Active	Scott AFB	Underway	202309	Underway	202709	PA/SI and RI Underway	3,828	21	1,083
Air Force	Illinois	National Guard	Springfield Municipal (Capital)	Complete		Underway	202509	PA/SI Completed - RI Underway	1,621	0	45
Air Force	Indiana	National Guard	Fort Wayne Municipal	Complete		Planned		PA/SI Completed - RI Planned	113	0	1,383
Air Force	Indiana	BRAC	Grissom AFB	Complete		Planned		PA/SI Completed - RI Planned	584	3,671	3,839
Air Force	Indiana	Active	Grissom Air Reserve Base	Complete		Underway	202709	PA/SI Completed - RI Underway	2,072	0	577
Air Force	Indiana	National Guard	Hulman	Complete		Underway	202509	PA/SI Completed - RI Underway	2,087	0	45
Air Force	Iowa	National Guard	Des Moines	Complete		Planned		PA/SI Completed - RI Planned	193	0	2,929
Air Force	Iowa	National Guard	Sioux Gateway (Sioux City) SIOUX CTY APT ANG (EESOH-MIS name)	Underway	202209	Planned		PA/SI Underway	102	0	1,383
Air Force	Kansas	National Guard	Forbes Field	Underway	202209	Planned		PA/SI Underway	125	0	1,383
Air Force	Kansas	Active	McConnell AFB	Underway	202309	Underway	202609	PA/SI and RI Underway	2,661	0	177
Air Force	Kentucky	National Guard	Standiford Field Air National Guard	Underway	202209	Planned		PA/SI Underway	92	0	1,383
Air Force	Louisiana	Active	Barksdale AFB	Underway	202309	Underway	202712	PA/SI and RI Underway	1,497	3,271	147
Air Force	Louisiana	BRAC	England AFB	Complete		Planned		PA/SI Completed - RI Planned	925	3,012	10,390
Air Force	Maine	National Guard	Bangor International Airport	Underway	202209	Planned		PA/SI Underway	225	0	1,383
Air Force	Maine	BRAC	Loring AFB	Complete		Underway	202606	PA/SI Completed - RI Underway	7,829	0	55,541
Air Force	Maryland	Active	Joint Base Andrews	Underway	202309	Planned		PA/SI Underway	1,096	0	1,188
Air Force	Maryland	National Guard	Martin State	Complete		Planned		PA/SI Completed - RI Planned	142	0	1,383
Air Force	Massachusetts	National Guard	Barnes Municipal	Underway	202209	Planned		PA/SI Underway	2,320	0	12,567
Air Force	Massachusetts	Active	Hanscom AFB	Underway	202206	Planned		PA/SI Underway	2,523	0	2,608
Air Force	Massachusetts	National Guard	Otis ANG (Joint Base Cape Cod -Massachusetts Military Reservation)	Complete		Underway	202609	PA/SI Completed - RI Underway	16,453	8,265	0
Air Force	Massachusetts	Active	Westover Air Reserve Base	Complete		Planned		PA/SI Completed - RI Planned	984	0	1,009
Air Force	Michigan	National Guard	Alpena	Underway	202209	Underway	202509	PA/SI and RI Underway	2,779	0	45

## Appendix: Per- and Polyfluoroalkyl Substances Cleanup: Schedule, Status, and Cost Estimates by DoD Installation

DoD Component	State/Territory	Installation Type	Installation Name	PA/SI Status	Estimated PA/SI End Date	RI/FS Status	Estimated RI/FS End Date	Cleanup Status as of December 31, 2021	Actual Obligations Through FY 2021 (\$000)	Planned Obligations in FY 2022 (\$000)	Planned Obligations after FY 2022 (\$000)*
Air Force	Michigan	Active	Calumet Air Force Station	Complete				PA/SI Completed - No Further Action	105	0	0
Air Force	Michigan	BRAC	KI Sawyer AFB	Complete		Underway	202609	PA/SI Completed - RI Underway	11,638	26	38,179
Air Force	Michigan	National Guard	Selfridge	Complete		Planned		PA/SI Completed - RI Planned	220	2,720	1,383
Air Force	Michigan	National Guard	WK Kellogg	Underway	202209	Underway	202509	PA/SI and RI Underway	2,717	0	45
Air Force	Michigan	BRAC	Wurtsmith AFB	Complete		Underway	202509	PA/SI Completed - RI Underway	41,444	14,846	214,257
Air Force	Minnesota	National Guard	Duluth International Airport	Underway	202209	Planned		PA/SI Underway	232	2,720	2,929
Air Force	Minnesota	Active	Minneapolis-St Paul Air Reserve Station	Complete		Planned		PA/SI Completed - RI Planned	349	1,081	1,252
Air Force	Minnesota	National Guard	Minneapolis-St Paul IAP	Complete		Planned		PA/SI Completed - RI Planned	108	0	1,383
Air Force	Mississippi	Active	Columbus AFB	Underway	202309	Underway	202709	PA/SI and RI Underway	4,863	0	1,395
Air Force	Mississippi	National Guard	Gulfport Biloxi	Underway	202209	Planned		PA/SI Underway	987	0	2,929
Air Force	Mississippi	National Guard	Jackson	Underway	202209	Planned		PA/SI Underway	234	0	2,929
Air Force	Mississippi	Active	Keesler AFB	Complete		Planned		PA/SI Completed - RI Planned	1,497	0	602
Air Force	Mississippi	National Guard	Key Field	Underway	202209	Planned		PA/SI Underway	80	0	1,383
Air Force	Missouri	National Guard	Lambert St. Louis	Complete		Planned		PA/SI Completed - RI Planned	78	0	1,383
Air Force	Missouri	BRAC	Richards-Gebaur AFB	Complete		Planned		PA/SI Completed - RI Planned	733	0	4,817
Air Force	Missouri	National Guard	Rosecrans Memorial	Complete		Planned		PA/SI Completed - RI Planned	97	0	2,929
Air Force	Missouri	Active	Whiteman AFB	Underway	202309	Planned		PA/SI Underway	730	0	969
Air Force	Montana	National Guard	Great Falls International Airport	Underway	202209	Planned		PA/SI Underway	116	0	1,383
Air Force	Montana	Active	Malmstrom AFB	Complete		Underway	202709	PA/SI Completed - RI Underway	2,060	0	124
Air Force	Nebraska	National Guard	Lincoln Municipal	Underway	202209	Planned		PA/SI Underway	197	0	2,929
Air Force	Nebraska	Active	Offutt AFB	Underway	202309	Underway	202609	PA/SI and RI Underway	3,178	0	163
Air Force	Nevada	Active	Creech AFB	Underway	202309	Underway	202709	PA/SI and RI Underway	5,053	0	3,930
Air Force	Nevada	Active	Nellis AFB	Complete		Underway	202606	PA/SI Completed - RI Underway	6,976	0	137
Air Force	Nevada	National Guard	Reno Tahoe	Complete		Planned		PA/SI Completed - RI Planned	113	0	1,383
Air Force	New Hampshire	Active	New Boston Air Force Station	Complete		Planned		PA/SI Completed - RI Planned	559	1,241	0

## Appendix: Per- and Polyfluoroalkyl Substances Cleanup: Schedule, Status, and Cost Estimates by DoD Installation

DoD Component	State/Territory	Installation Type	Installation Name	PA/SI Status	Estimated PA/SI End Date	RI/FS Status	Estimated RI/FS End Date	Cleanup Status as of December 31, 2021	Actual Obligations Through FY 2021 (\$000)	Planned Obligations in FY 2022 (\$000)	Planned Obligations after FY 2022 (\$000)*
Air Force	New Hampshire	National Guard	Pease	Complete		Planned		PA/SI Completed - Additional Work will be Combined with Work Being Conducted at Another Installation	0	0	0
Air Force	New Hampshire	BRAC	Pease AFB	Complete		Underway	202509	PA/SI Completed - RI Underway	76,116	554	169,674
Air Force	New Jersey	National Guard	Atlantic City	Underway	202209	Planned		PA/SI Underway	571	0	1,383
Air Force	New Jersey	Active	Joint Base McGuire-Dix-Lakehurst	Underway	202303	Underway	202609	PA/SI and RI Underway	28,703	1,839	634
Air Force	New Mexico	Active	Cannon AFB	Complete		Underway	202608	PA/SI Completed - RI Underway	27,868	298	6,020
Air Force	New Mexico	Active	Holloman AFB	Complete		Underway	202711	PA/SI Completed - RI Underway	1,194	2,079	182
Air Force	New Mexico	Active	Kirtland AFB	Underway	202309	Planned		PA/SI Underway	1,360	0	560
Air Force	New York	Active	Air Force Research Laboratory Rome	Complete		Planned		PA/SI Completed - RI Planned	983	0	0
Air Force	New York	National Guard	Francis S. Gabreski	Complete		Planned		PA/SI Completed - RI Planned	4,838	2,823	12,567
Air Force	New York	BRAC	Griffiss AFB	Complete		Planned		PA/SI Completed - RI Planned	1,847	0	11,396
Air Force	New York	National Guard	Hancock Field	Complete		Planned		PA/SI Completed - RI Planned	339	0	1,383
Air Force	New York	Active	Niagara Falls Air Reserve Station	Complete		Planned		PA/SI Completed - RI Planned	1,094	1,167	1,277
Air Force	New York	BRAC	Plattsburgh AFB	Complete		Underway	202509	PA/SI Completed - RI Underway	7,201	246	31,956
Air Force	New York	BRAC	Roslyn Air National Guard Station	Complete				PA/SI Completed - No Further Action	53	0	0
Air Force	New York	National Guard	Schenectady Airport	Complete		Planned		PA/SI Completed - RI Planned	354	0	1,383
Air Force	New York	National Guard	Stewart International Airport	Underway	202209	Underway	202609	PA/SI and RI Underway	9,838	0	208
Air Force	North Carolina	National Guard	Charlotte Douglas	Underway	202209	Planned		PA/SI Underway	114	0	2,929
Air Force	North Carolina	National Guard	New London ANGB (Stanly County Airport)	Complete		Planned		PA/SI Completed - RI Planned	53	0	1,383
Air Force	North Carolina	Active	Seymour Johnson AFB	Underway	202309	Underway	202708	PA/SI and RI Underway	1,935	0	583
Air Force	North Dakota	Active	Cavalier Air Force Station	Underway	202309	Underway	202609	PA/SI and RI Underway	3,107	0	0
Air Force	North Dakota	Active	Grand Forks AFB	Complete		Underway	202709	PA/SI Completed - RI Underway	2,649	0	1,709
Air Force	North Dakota	National Guard	Hector Field	Underway	202209	Planned		PA/SI Underway	102	0	1,383
Air Force	North Dakota	Active	Minot AFB	Underway	202309	Underway	202701	PA/SI and RI Underway	2,250	0	214

**Appendix: Per- and Polyfluoroalkyl Substances Cleanup: Schedule, Status, and Cost Estimates by DoD Installation**

DoD Component	State/Territory	Installation Type	Installation Name	PA/SI Status	Estimated PA/SI End Date	RI/FS Status	Estimated RI/FS End Date	Cleanup Status as of December 31, 2021	Actual Obligations Through FY 2021 (\$000)	Planned Obligations in FY 2022 (\$000)	Planned Obligations after FY 2022 (\$000)*
Air Force	Ohio	Active	Air Force Plant 36	Complete				PA/SI Completed - No Further Action	379	0	0
Air Force	Ohio	Active	Air Force Plant 85	Complete		Planned		PA/SI Completed - RI Planned	1,034	0	299
Air Force	Ohio	BRAC	Gentile Air Force Station	Complete		Planned		PA/SI Completed - RI Planned	273	0	1,684
Air Force	Ohio	National Guard	Mansfield	Underway	202209	Planned		PA/SI Underway	335	0	2,929
Air Force	Ohio	BRAC	Newark AFB	Complete		Planned		PA/SI Completed - RI Planned	302	0	1,372
Air Force	Ohio	BRAC	Rickenbacker	Complete		Planned		PA/SI Completed - RI Planned	494	0	38,340
Air Force	Ohio	National Guard	Rickenbacker	Complete		Planned		PA/SI Completed - RI Planned	83	0	2,929
Air Force	Ohio	National Guard	Springfield-Beckley Municipal	Underway	202209	Planned		PA/SI Underway	107	0	1,383
Air Force	Ohio	National Guard	Toledo Express	Underway	202209	Underway	202509	PA/SI and RI Underway	2,343	0	45
Air Force	Ohio	Active	Wright Patterson AFB	Underway	202309	Underway	202607	PA/SI and RI Underway	38,940	4,331	2,720
Air Force	Ohio	Active	Youngstown Air Reserve Station	Complete		Underway	202709	PA/SI Completed - RI Underway	2,281	0	758
Air Force	Oklahoma	Active	Air Force Plant 3	Complete		Underway	202712	PA/SI Completed - RI Underway	1,497	1,454	0
Air Force	Oklahoma	Active	Altus AFB	Complete		Planned		PA/SI Completed - RI Planned	1,406	1,592	0
Air Force	Oklahoma	Active	Tinker AFB	Underway	202309	Planned		PA/SI Underway	1,406	927	0
Air Force	Oklahoma	National Guard	Tulsa International Airport	Underway	202209	Planned		PA/SI Underway	98	0	2,929
Air Force	Oklahoma	Active	Vance AFB/Kegelman	Underway	202309	Underway	202709	PA/SI and RI Underway	4,079	0	473
Air Force	Oklahoma	National Guard	Will Rogers International Airport	Underway	202209	Planned		PA/SI Underway	355	0	2,929
Air Force	Oregon	National Guard	Klamath Falls	Underway	202209	Planned		PA/SI Underway	927	0	1,383
Air Force	Oregon	National Guard	Portland International Airport PORTLAND (EESOH-MIS name)	Complete		Underway	202509	PA/SI Completed - RI Underway	1,748	0	45
Air Force	Pennsylvania	National Guard	Biddle ANGB (formerly Horsham/Willow Grove ANG)	Underway	202209	Underway	202409	PA/SI and RI Underway	24,180	4,599	28,215
Air Force	Pennsylvania	National Guard	Harrisburg International Airport	Underway	202209	Planned		PA/SI Underway	512	0	2,929
Air Force	Pennsylvania	Active	Pittsburgh Air Reserve Station	Underway	202209	Planned		PA/SI Underway	46	0	1,120
Air Force	Pennsylvania	National Guard	Pittsburgh ANGB	Underway	202209	Planned		PA/SI Underway	533	0	2,929
Air Force	Puerto Rico	National Guard	Puerto Rico Muniz International Airport LUIS MUNIZ MARIN (EESOH-MIS name)	Underway	202209	Planned		PA/SI Underway	115	0	1,383
Air Force	Rhode Island	National Guard	Quonset Point State Airport	Complete		Planned		PA/SI Completed - RI Planned	53	0	1,383
Air Force	South Carolina	Active	Joint Base Charleston	Complete		Underway	202609	PA/SI Completed - RI Underway	2,662	0	208



## Appendix: Per- and Polyfluoroalkyl Substances Cleanup: Schedule, Status, and Cost Estimates by DoD Installation

DoD Component	State/Territory	Installation Type	Installation Name	PA/SI Status	Estimated PA/SI End Date	RI/FS Status	Estimated RI/FS End Date	Cleanup Status as of December 31, 2021	Actual Obligations Through FY 2021 (\$000)	Planned Obligations in FY 2022 (\$000)	Planned Obligations after FY 2022 (\$000)*
Air Force	South Carolina	National Guard	McEntire Air Guard	Underway	202209	Planned		PA/SI Underway	390	0	2,929
Air Force	South Carolina	BRAC	Myrtle Beach AFB	Complete		Underway	202609	PA/SI Completed - RI Underway	3,735	0	14,249
Air Force	South Carolina	Active	Shaw AFB	Underway	202203	Underway	202609	PA/SI and RI Underway	41,898	14,358	140
Air Force	South Dakota	Active	Ellsworth AFB	Complete		Underway	202606	PA/SI Completed - RI Underway	24,464	19,633	2,218
Air Force	South Dakota	National Guard	Joe Foss Field (Sioux Falls)	Underway	202209	Underway	202509	PA/SI and RI Underway	2,908	0	45
Air Force	Tennessee	Active	Arnold AFB	Underway	202309	Underway	202609	PA/SI and RI Underway	3,652	0	149
Air Force	Tennessee	National Guard	McGhee-Tyson	Underway	202209	Planned		PA/SI Underway	326	0	1,383
Air Force	Tennessee	National Guard	Memphis International Airport	Underway	202209	Planned		PA/SI Underway	248	0	2,929
Air Force	Tennessee	National Guard	Nashville Metro	Underway	202209	Planned		PA/SI Underway	268	0	2,929
Air Force	Texas	Active	Air Force Plant 4	Complete		Underway	202712	PA/SI Completed - RI Underway	1,497	2,369	0
Air Force	Texas	BRAC	Bergstrom AFB	Complete		Planned		PA/SI Completed - RI Planned	872	2,616	8,727
Air Force	Texas	BRAC	Brooks-City Base	Complete				PA/SI Completed - No Further Action	66	0	0
Air Force	Texas	BRAC	Carswell AFB	Complete				PA/SI Completed - No Further Action	66	0	0
Air Force	Texas	Active	Dyess AFB	Underway	202206	Underway	202709	PA/SI and RI Underway	5,523	0	2,314
Air Force	Texas	National Guard	Ellington Field	Complete		Planned		PA/SI Completed - RI Planned	103	0	1,383
Air Force	Texas	Active	Goodfellow AFB	Underway	202206	Underway	202709	PA/SI and RI Underway	3,536	0	139
Air Force	Texas	Active	Joint Base San Antonio - Lackland, Randolph, Ft Sam Houston, Camp Bullis	Underway	202309	Underway	202809	PA/SI and RI Underway	4,344	2,785	1,928
Air Force	Texas	BRAC	Kelly AFB	Complete		Planned		PA/SI Completed - RI Planned	1,917	0	34,885
Air Force	Texas	Active	Laughlin AFB	Complete		Planned		PA/SI Completed - RI Planned	1,194	539	637
Air Force	Texas	BRAC	Reese AFB	Complete		Underway	202609	PA/SI Completed - RI Underway	59,408	10,064	283,447
Air Force	Texas	Active	Sheppard AFB	Underway	202309	Underway	202709	PA/SI and RI Underway	3,719	0	785
Air Force	Utah	Active	Hill AFB	Complete		Underway	202609	PA/SI Completed - RI Underway	9,110	176	173
Air Force	Utah	National Guard	Salt Lake City	Underway	202209	Planned		PA/SI Underway	288	0	1,383
Air Force	Vermont	National Guard	Burlington	Underway	202209	Planned		PA/SI Underway	1,858	0	5,389
Air Force	Virginia	Active	Joint Base Langley-Eustis	Complete		Planned		PA/SI Completed - RI Planned	1,663	1,328	0

## Appendix: Per- and Polyfluoroalkyl Substances Cleanup: Schedule, Status, and Cost Estimates by DoD Installation

DoD Component	State/Territory	Installation Type	Installation Name	PA/SI Status	Estimated PA/SI End Date	RI/FS Status	Estimated RI/FS End Date	Cleanup Status as of December 31, 2021	Actual Obligations Through FY 2021 (\$000)	Planned Obligations in FY 2022 (\$000)	Planned Obligations after FY 2022 (\$000)*
Air Force	Virginia	National Guard	Richmond International Airport Byrd Field	Underway	202209	Planned		PA/SI Underway	787	0	2,929
Air Force	Wake Island	Active	Wake Island	Complete		Planned		PA/SI Completed - RI Planned	2,002	0	2,521
Air Force	Washington	Active	Fairchild AFB	Complete		Underway	202607	PA/SI Completed - RI Underway	13,830	7,162	40,718
Air Force	Washington	BRAC	Four Lakes Air National Guard Station	Complete				PA/SI Completed - No Further Action	50	0	0
Air Force	West Virginia	National Guard	EWVRA Shepherd Field (Martinsburg)	Underway	202209	Underway	202609	PA/SI and RI Underway	12,078	0	11,229
Air Force	West Virginia	National Guard	Yeager (McLaughlin)	Underway	202209	Planned		PA/SI Underway	119	0	1,383
Air Force	Wisconsin	National Guard	General Mitchell	Underway	202209	Planned		PA/SI Underway	185	0	1,383
Air Force	Wisconsin	BRAC	General Mitchell Air Reserve Station	Complete		Planned		PA/SI Completed - RI Planned	1,294	2,479	2,973
Air Force	Wisconsin	National Guard	Truax Field	Underway	202209	Underway	202509	PA/SI and RI Underway	1,285	0	45
Air Force	Wisconsin	National Guard	Volk Field	Underway	202209	Underway	202509	PA/SI and RI Underway	1,574	0	45
Air Force	Wyoming	National Guard	Cheyenne Municipal	Complete		Planned		PA/SI Completed - RI Planned	105	0	1,383
Air Force	Wyoming	Active	FE Warren AFB	Complete		Underway	202709	PA/SI Completed - RI Underway	2,003	0	120
Air Force	N/A	N/A	N/A - Program Management^						34,307	10,716	2,449
<b>Air Force Funding Subtotals:</b>									<b>998,226</b>	<b>210,457</b>	<b>1,678,024</b>
DLA	California	Active	DFSP Norwalk	Underway	202212	Planned		PA/SI Underway	171	515	184
DLA	California	Active	DFSP Ozol	Underway	202309	Planned		PA/SI Underway	369	312	1,008
DLA	California	Active	DFSP San Pedro	Underway	202309	Planned		PA/SI Underway	425	298	945
DLA	New Hampshire	Active	DFSP Newington	Underway	202209	Planned		PA/SI Underway	176	0	882
DLA	New York	Active	DFSP Verona	Underway	202209	Planned		PA/SI Underway	1,139	0	686
DLA	Pennsylvania	Active	Defense Distribution Center Susquehanna	Underway	202309			PA/SI Underway	25	133	0
DLA	Virginia	Active	Defense Supply Center Richmond	Underway	202309			PA/SI Underway	42	0	0
<b>DLA Funding Subtotals:</b>									<b>2,346</b>	<b>1,257</b>	<b>3,704</b>
FUDS	California	FUDS	HAMILTON ARMY AIRFIELD	Underway	202312	Planned		PA/SI Underway	0	298	3,200
FUDS	Michigan	FUDS	KINCHELOE AIR FORCE BASE	Underway	202209	Planned		PA/SI Underway	260	900	0
FUDS	Rhode Island	FUDS	NAVAL AUX LANDING FIELD	Complete		Underway	202509	PA/SI Completed - RI Underway	1,977	600	2,000
FUDS	Washington	FUDS	MANCHESTER ANNEX	Underway	202212			PA/SI Underway	307	81	5,500
<b>FUDS Funding Subtotals:</b>									<b>2,544</b>	<b>1,879</b>	<b>10,700</b>
<b>DoD Funding Totals:</b>									<b>1,456,035</b>	<b>409,427</b>	<b>2,117,724</b>

\* These estimates are based on information available as of the end of FY 2021 and are expected to increase in the future as DoD completes investigations and defines future requirements. DoD will plan and program for future requirements at that time.

^ These funds are for investigations of known or suspected PFAS releases at multiple installations.

## Appendix: Per- and Polyfluoroalkyl Substances Cleanup: Schedule, Status, and Cost Estimates by DoD Installation

DoD Component	State/Territory	Installation Type	Installation Name	PA/SI Status	Estimated PA/SI End Date	RI/FS Status	Estimated RI/FS End Date	Cleanup Status as of December 31, 2021	Actual Obligations Through FY 2021 (\$000)	Planned Obligations in FY 2022 (\$000)	Planned Obligations after FY 2022 (\$000)*
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\*\* The planned obligations in FY 2022 exclude \$7.5 million in Environmental Restoration Account funding that the Navy plans to reprogram for research, development, testing and evaluation.