

Per- and Polyfluoroalkyl Substances Cleanup Costs



July 2021

Office of the Under Secretary of Defense
for Acquisition and Sustainment

The estimated cost of this report or study for the Department of Defense is approximately \$4,900 in Fiscal Year 2021. This includes \$700 in expenses and \$4,100 in DoD labor.
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APPENDIX

Per- and Polyfluoroalkyl Substances Investigation and Cleanup Costs by DoD Installation

I. INTRODUCTION

House Report 116-453, page 68, accompanying the Department of Defense (DoD) Appropriations Bill, 2021, requests that the Secretary of Defense submit a report on the costs associated with investigating and cleaning up per- and polyfluoroalkyl substances (PFAS) at sites with funding provided by either the environmental restoration or operation and maintenance appropriation accounts. The House Report requests and this report includes actual obligations through the end of FY 2018, actual obligations in FY 2019, planned and actual obligations in FY 2020, planned obligations in FY 2021, and estimated obligations after FY 2021. The obligations are provided separately for investigations and cleanup, and by DoD Component and installation.

II. BACKGROUND

PFAS are a national issue that requires national solutions. DoD is taking action to reduce the risks of PFAS exposure to human health. DoD's cleanup program follows the Federal cleanup law (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.

III. PFAS OBLIGATIONS

DoD obligated \$204.5 million to investigate and \$124.3 million to clean up PFAS through the end of FY 2018. DoD obligated an additional \$51.9 million for investigations and \$120.8 million for cleanup of PFAS in FY 2019. In FY 2020, DoD planned to obligate \$70.8 million and \$40.6 million to investigate and clean up PFAS, respectively; DoD's actual obligations were \$242.5 million and \$28.3 million, respectively. DoD plans to obligate \$56.4 million to investigate and \$39.9 million to clean up PFAS in FY 2021. After FY 2021, DoD estimates that it will obligate \$442.8 million to investigate and \$318.1 million to clean up PFAS. The appendix provides these obligations by DoD Component and installation.

DoD does not track funding by contaminant and, as such, the data presented in the appendix represents the DoD Components' best estimates of the funding obligated and to be obligated for investigations and cleanup of DoD releases of PFAS. The planned obligations are as of the end of FY 2020 and may change based on the FY 2021 Appropriations Act. Additionally, based on current information, DoD estimates obligations for beyond FY2021 to exceed \$1 billion for active installations and National Guard locations as reported here, for a total of \$2.1 billion including Base Realignment and Closure sites. DoD expects this estimate to increase as the DoD Components complete the initial assessments and additional information is known about the extent of the cleanup required. The DoD Components will plan and program for these requirements as they are defined.

IV. CONCLUSION

DoD is taking action to reduce the risks of PFAS to human health by following the CERCLA process to address releases to the environment resulting from DoD activities. DoD has obligated \$772.3 million through FY 2020 and plans to obligate \$96.3 million in FY 2021 to

address its PFAS releases. DoD plans to obligate an additional \$760.9 million after FY 2021 to address PFAS releases; however, this estimate is expected to increase as initial assessments are completed and the DoD Components determine what cleanup actions are required. The Department will plan and program for these requirements as they are defined.

Appendix: Per- and Polyfluoroalkyl Substances Investigation and Cleanup Costs by DoD Installation

DoD Component	Fund Source ¹	Installation Name	State/Territory	Actual Obligations Through FY18 (Investigation ²) (\$000)	Actual Obligations Through FY18 (Cleanup ³) (\$000)	Actual Obligations in FY19 (Investigation ²) (\$000)	Actual Obligations in FY19 (Cleanup ³) (\$000)	Planned Obligations in FY20 (Investigation ²) (\$000)	Planned Obligations in FY20 (Cleanup ³) (\$000)	Actual Obligations in FY20 (Investigation ²) (\$000)	Actual Obligations in FY20 (Cleanup ³) (\$000)	Planned Obligations in FY21 (Investigation ²) (\$000)	Planned Obligations in FY21 (Cleanup ³) (\$000)	Planned Obligations after FY21 (Investigation ²) (\$000)	Planned Obligations after FY21 (Cleanup ³) (\$000)
Army - OMNG	OMNG	AAOF Blair Hangar	Virgin Islands	15	0	0	0	125	0	50	0	0	0	0	0
Army - OMNG	OMNG	AASF	Puerto Rico	15	0	0	0	125	0	50	0	0	0	0	0
Army - OMNG	OMNG	AASF #1 R W Shepherd Hope Hull	Alabama	15	0	0	0	125	0	0	0	0	0	0	0
Army - OMNG	OMNG	AASF #2	Tennessee	15	0	0	0	125	0	95	0	0	0	0	0
Army - OMNG	OMNG	AASF #2	Washington	15	0	0	0	0	0	0	0	0	0	0	0
Army - OMNG	OMNG	AASF #2 Birmingham	Alabama	15	0	0	0	125	0	0	0	0	0	0	0
Army - OMNG	OMNG	AASF #3 Bates Field Mobile	Alabama	15	0	0	0	125	0	0	0	0	0	0	0
Army - OMNG	OMNG	AASF Byrd Field	Virginia	15	0	0	0	0	0	95	0	0	0	0	0
Army - OMNG	OMNG	AASF Concord	New Hampshire	15	0	0	0	0	0	50	0	0	0	0	0
Army - OMNG	OMNG	AASF Guam	Guam	15	0	0	0	125	0	50	0	0	0	0	0
Army - OMNG	OMNG	AASF Jackson	Mississippi	15	0	0	0	0	0	95	0	0	0	0	0
Army - OMNG	OMNG	AASF Main Hangar-cold storage	New Jersey	15	0	125	0	0	0	0	0	0	0	0	0
Army - OMNG	OMNG	AASF Meridian	Mississippi	15	0	0	0	125	0	95	0	0	0	0	0
Army - OMNG	OMNG	AASF Tupelo	Mississippi	15	0	125	0	0	0	0	0	0	0	0	0
Army - OMNG	OMNG	AASF Upstate	South Carolina	15	0	0	0	125	0	0	0	0	0	0	0
Army - OMNG	OMNG	AASF-E.J. Garn Aviation Complex	Utah	15	0	125	0	0	0	0	0	0	0	0	0
Army - Active	ERA	Aberdeen Proving Ground	Maryland	356	0	468	0	0	0	25	140	4,553	0	0	0
Army - Active	ERA	Aberdeen Proving Ground - Adelphi Laboratory Center	Maryland	0	0	0	0	0	0	0	0	0	0	0	0
Army - OMNG	OMNG	Albany AASF #3/DMNA HQ //FMS #16	New York	16	0	0	0	125	0	0	0	0	0	0	0
Army - OMNG	OMNG	Allendale Armory	South Carolina	15	0	0	0	0	0	95	0	0	0	0	0
Army - Active	ERA	Anniston Army Depot	Alabama	91	0	236	0	0	0	53	0	252	0	374	0
Army - Active	ERA	ASF New Century	Kansas	0	0	0	0	40	0	38	0	0	0	0	0
Army - OMNG	OMNG	Austin Bergstrom Hangar	Texas	16	0	0	0	125	0	0	0	0	0	0	0
Army - Active	ERA	Badger Army Ammunition Plant	Wisconsin	0	0	0	0	0	0	0	0	0	0	0	0
Army - OMNG	OMNG	Bangor Training Site	Maine	15	0	0	0	125	0	0	0	0	0	0	0
Army - OMNG	OMNG	Belmont Armory	Michigan	15	0	0	0	0	0	0	0	0	0	0	0
Army - OMNG	OMNG	Bend COTEF (Youth Challenge)	Oregon	15	0	0	0	0	0	0	0	0	0	0	0
Army - OMNG	OMNG	Bethel AAOF	Alaska	15	0	0	0	125	0	50	0	0	0	0	0
Army - OMNG	OMNG	Biak Training Areas Brett Hall	Oregon	15	0	0	0	125	0	95	0	0	0	0	0
Army - OMNG	OMNG	Bismarck AASF Complex	North Dakota	15	0	0	0	0	0	50	0	0	0	0	0
Army - Active	ERA	Blue Grass Army Depot	Kentucky	91	0	154	0	0	0	12	0	0	0	0	0
Army - OMNG	OMNG	Boone AASF	Iowa	15	0	0	0	125	0	0	0	0	0	0	0
Army - OMNG	OMNG	Boone National Guard Center - AASF	Kentucky	15	0	0	0	125	0	50	0	0	0	0	0
Army - OMNG	OMNG	Bremerton	Washington	15	0	0	0	0	0	0	0	0	0	0	0
Army - OMNG	OMNG	Brooksville RC, AASF #2	Florida	15	0	0	0	125	0	50	0	0	0	0	0
Army - OMNG	OMNG	Brunswick West	Maine	10	0	0	0	0	0	0	0	0	0	0	0
Army - OMNG	OMNG	Brunswick Armed Forces Reserve Center	Maine	16	0	0	0	0	0	0	0	0	0	0	0
Army - OMNG	OMNG	Brunswick East	Maine	10	0	0	0	0	0	0	0	0	0	0	0
Army - OMNG	OMNG	Bryant Airfield- JBER	Alaska	15	0	0	0	0	0	95	0	0	0	0	0
Army - OMNG	OMNG	Buckley Air Force Base AASF	Colorado	15	0	0	0	125	0	0	0	0	0	0	0
Army - OMNG	OMNG	Camp Adair Corvallis	Oregon	16	0	0	0	125	0	50	0	0	0	0	0
Army - OMNG	OMNG	Camp Atterbury/Range 36 ATG	Indiana	22	0	0	0	125	0	0	0	0	0	0	0
Army - OMNG	OMNG	Camp Beauregard	Louisiana	15	0	0	0	125	0	0	0	0	0	0	0
Army - OMNG	OMNG	Camp Blanding	Florida	22	0	0	0	0	0	95	0	0	0	0	0
Army - OMNG	OMNG	Camp Dodge Johnston Training Site	Iowa	22	0	180	0	125	0	0	0	1,255	0	2,140	0

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DoD Component	Fund Source ¹	Installation Name	State/Territory	Actual Obligations Through FY18 (Investigation ²) (\$000)	Actual Obligations Through FY18 (Cleanup ³) (\$000)	Actual Obligations in FY19 (Investigation ²) (\$000)	Actual Obligations in FY19 (Cleanup ³) (\$000)	Planned Obligations in FY20 (Investigation ²) (\$000)	Planned Obligations in FY20 (Cleanup ³) (\$000)	Actual Obligations in FY20 (Investigation ²) (\$000)	Actual Obligations in FY20 (Cleanup ³) (\$000)	Planned Obligations in FY21 (Investigation ²) (\$000)	Planned Obligations in FY21 (Cleanup ³) (\$000)	Planned Obligations after FY21 (Investigation ²) (\$000)	Planned Obligations after FY21 (Cleanup ³) (\$000)
Army - OMNG	OMNG	Camp Edwards	Massachusetts	15	0	0	0	0	0	0	0	0	0	0	0
Army - OMNG	OMNG	Camp McCain	Mississippi	15	0	0	0	125	0	95	0	0	0	0	0
Army - OMNG	OMNG	Camp Minden	Louisiana	10	0	100	0	0	0	0	0	0	0	0	0
Army - OMNG	OMNG	Camp Murray	Washington	15	0	0	0	0	0	0	0	0	0	0	0
Army - OMNG	OMNG	Camp Navajo	Arizona	16	0	125	0	0	0	0	0	0	0	0	0
Army - OMNG	OMNG	Camp Pendleton SMR	Virginia	15	0	0	0	125	0	50	0	0	0	0	0
Army - OMNG	OMNG	Camp Ripley (Eastern AOIs)	Minnesota	0	0	0	0	125	0	50	0	0	0	0	0
Army - OMNG	OMNG	Camp Ripley (Installation Wide PA) (Western AOI SI)	Minnesota	37	0	125	0	0	0	0	0	0	0	0	0
Army - OMNG	OMNG	Camp Roberts	California	22	0	0	0	125	0	0	0	0	0	0	0
Army - OMNG	OMNG	Camp Robinson	Arkansas	15	0	0	0	125	0	50	0	0	0	0	0
Army - OMNG	OMNG	Camp San Luis Obispo	California	10	0	0	0	125	0	0	0	0	0	0	0
Army - OMNG	OMNG	Camp Santiago Joint Maneuver Training Center	Puerto Rico	22	0	0	0	125	0	0	0	0	0	0	0
Army - OMNG	OMNG	Camp Shelby	Mississippi	15	0	0	0	125	0	0	0	0	0	0	0
Army - OMNG	ERA	Camp Smith/CSMS A	New York	0	0	98	0	0	0	0	0	0	0	0	0
Army - OMNG	OMNG	Camp Smith/CSMS A	New York	16	0	0	0	125	0	0	0	470	0	54	0
Army - OMNG	OMNG	Camp Villere	Louisiana	10	0	0	0	125	0	0	0	0	0	0	0
Army - Active	ERA	Carlisle Barracks	Pennsylvania	43	0	154	0	0	0	12	0	0	0	0	0
Army - OMNG	OMNG	Casper	Wyoming	10	0	0	0	0	0	0	0	0	0	0	0
Army - OMNG	OMNG	Caswell Training Site	Maine	15	0	0	0	0	0	0	0	0	0	0	0
Army - OMNG	OMNG	Central Oregon Unit Training Equipment Site	Oregon	15	0	0	0	0	0	50	0	0	0	0	0
Army - Active	ERA	Charles Melvin Price Support Center	Illinois	0	0	0	0	0	0	0	0	0	0	0	0
Army - OMNG	OMNG	Chesterfield Limited AASF	Virginia	15	0	0	0	0	0	50	0	0	0	0	0
Army - OMNG	OMNG	Cheyenne AASF	Wyoming	15	0	0	0	125	0	95	0	0	0	0	0
Army - OMNG	OMNG	Chicago (Midway Armory, AASF #2)	Illinois	15	0	0	0	125	0	0	0	0	0	0	0
Army - OMNG	OMNG	Christmas Valley Radar Site	Oregon	15	0	0	0	0	0	0	0	0	0	0	0
Army - Active	ERA	Cold Regions Research and Engineering Laboratory	New Hampshire	0	0	0	0	0	0	0	0	0	0	0	0
Army - Active	ERA	Cornhusker Army Ammunition Plant	Nebraska	0	0	0	0	0	0	0	0	0	0	0	0
Army - OMNG	OMNG	CTC Camp Dawson-Kingwood	West Virginia	10	0	0	0	125	0	50	0	0	0	0	0
Army - OMNG	OMNG	Dade City Readiness Center	Florida	15	0	0	0	0	0	0	0	0	0	0	0
Army - OMNG	OMNG	Davenport AASF	Iowa	15	0	0	0	125	0	0	0	0	0	0	0
Army - OMNG	OMNG	Decatur AASF #1	Illinois	15	0	0	0	125	0	0	0	0	0	0	0
Army - Active	ERA	Detroit Arsenal	Michigan	326	0	5	0	0	0	12	0	0	0	0	0
Army - Active	ERA	Devens Reserve Forces Training Area	Massachusetts	43	0	5	0	0	0	0	0	0	0	0	0
Army - Active	ERA	Dugway Proving Ground	Utah	91	0	5	0	450	0	395	0	0	0	0	0
Army - OMNG	OMNG	Duncan Armory AASF	Delaware	15	0	0	0	125	0	50	0	0	0	0	0
Army - OMNG	OMNG	Edgemeade TS Mountain Home	Idaho	15	0	0	0	0	0	0	0	0	0	0	0
Army - OMNG	OMNG	El Campo	Texas	15	5	125	0	0	0	0	0	0	0	0	0
Army - OMNG	OMNG	Ellington Field	Texas	15	0	0	0	125	0	0	0	0	0	0	0
Army - OMNG	OMNG	Esler Field AASF #2	Louisiana	15	0	0	0	125	0	0	0	0	0	0	0
Army - OMNG	OMNG	Fargo AASF #2	North Dakota	15	0	0	0	0	0	50	0	0	0	0	0
Army - OMNG	OMNG	Fixed wing AAS	West Virginia	15	0	0	0	0	0	50	0	0	0	0	0
Army - OMNG	OMNG	Florence Military Reservation	Arizona	15	0	0	0	0	0	0	0	0	0	0	0
Army - OMNG	OMNG	Former Crash Fire Station, Building 241	New Hampshire	15	0	0	0	125	0	0	0	0	0	0	0
Army - OMNG	OMNG	Fort Allen	Puerto Rico	10	0	0	0	125	0	0	0	0	0	0	0
Army - Active	ERA	Fort AP Hill	Virginia	91	0	246	0	0	0	12	0	636	0	0	0
Army - Active	ERA	Fort Belvoir	Virginia	91	0	5	0	282	0	312	0	0	0	0	0

Appendix: Per- and Polyfluoroalkyl Substances Investigation and Cleanup Costs by DoD Installation

DoD Component	Fund Source ¹	Installation Name	State/Territory	Actual Obligations Through FY18 (Investigation ²) (\$000)	Actual Obligations Through FY18 (Cleanup ³) (\$000)	Actual Obligations in FY19 (Investigation ²) (\$000)	Actual Obligations in FY19 (Cleanup ³) (\$000)	Planned Obligations in FY20 (Investigation ²) (\$000)	Planned Obligations in FY20 (Cleanup ³) (\$000)	Actual Obligations in FY20 (Investigation ²) (\$000)	Actual Obligations in FY20 (Cleanup ³) (\$000)	Planned Obligations in FY21 (Investigation ²) (\$000)	Planned Obligations in FY21 (Cleanup ³) (\$000)	Planned Obligations after FY21 (Investigation ²) (\$000)	Planned Obligations after FY21 (Cleanup ³) (\$000)
Army - Active	ERA	Fort Benning	Georgia	91	0	236	0	0	0	112	0	0	0	0	0
Army - Active	ERA	Fort Benning - Camp Merrill	Georgia	0	0	0	0	0	0	0	0	0	0	0	0
Army - Active	ERA	Fort Bliss	Texas	91	0	467	0	0	0	12	0	0	0	0	0
Army - Active	ERA	Fort Bragg	North Carolina	616	0	5	0	0	0	67	0	0	0	0	0
Army - Active	ERA	Fort Bragg - Camp Mackall	North Carolina	56	0	5	0	0	0	12	0	0	0	0	0
Army - Active	ERA	Fort Buchanan	Puerto Rico	23	0	77	0	172	0	164	0	0	0	0	0
Army - Active	ERA	Fort Campbell	Kentucky	524	0	5	0	63	0	12	0	0	0	0	0
Army - Active	ERA	Fort Carson	Colorado	267	0	5	0	0	0	83	0	1,276	0	0	0
Army - Active	ERA	Fort Detrick	Maryland	91	0	154	0	0	0	12	0	0	0	0	0
Army - Active	ERA	Fort Detrick - Forest Glen Annex	Maryland	56	0	5	0	0	0	12	0	0	0	0	0
Army - Active	ERA	Fort Drum	New York	1,583	0	384	0	0	0	222	0	2,624	0	0	0
Army - Active	ERA	Fort Gordon	Georgia	91	0	246	0	0	0	12	0	0	0	0	0
Army - Active	ERA	Fort Gordon - Gillem Annex	Georgia	57	0	5	0	0	0	12	0	0	0	0	0
Army - Active	ERA	Fort Greely	Alaska	330	0	475	0	0	0	12	0	0	0	0	0
Army - Active	ERA	Fort Hamilton	New York	43	0	5	0	0	0	0	0	0	0	0	0
Army - Active	ERA	Fort Hood	Texas	91	0	385	0	0	0	12	0	0	0	0	0
Army - Active	ERA	Fort Huachuca	Arizona	91	0	5	0	450	0	395	0	0	0	0	0
Army - Active	ERA	Fort Hunter Liggett	California	570	0	5	0	0	0	1,122	0	0	0	0	0
Army - Active	ERA	Fort Hunter Liggett - Parks Reserve Forces Training Area	California	291	0	5	0	0	0	12	0	0	0	0	0
Army - OMNG	OMNG	Fort Indiantown Gap	Pennsylvania	16	0	193	0	0	0	50	0	742	0	73	0
Army - Active	ERA	Fort Irwin	California	91	0	5	0	450	0	395	0	0	0	0	0
Army - Active	ERA	Fort Jackson	South Carolina	91	0	385	0	0	0	12	0	0	0	0	0
Army - Active	ERA	Fort Knox	Kentucky	91	0	154	0	0	0	12	0	484	0	0	0
Army - Active	ERA	Fort Leavenworth	Kansas	542	0	5	0	2,400	0	1,239	0	60	0	0	0
Army - Active	ERA	Fort Lee	Virginia	91	0	154	0	0	0	12	0	0	0	0	0
Army - Active	ERA	Fort Leonard Wood	Missouri	91	0	5	0	450	0	395	0	0	0	0	0
Army - OMNG	OMNG	Fort McClellan	Alabama	15	0	0	0	125	0	0	0	0	0	0	0
Army - Active	ERA	Fort McCoy	Wisconsin	271	0	5	0	0	0	12	0	2,252	0	0	0
Army - Active	ERA	Fort Meade	Maryland	91	0	246	0	0	0	12	0	0	0	0	0
Army - Active	ERA	Fort Meade - Phoenix Military Reservation	Maryland	43	0	5	0	0	0	0	0	0	0	0	0
Army - OMNG	OMNG	Fort Pickett MTC	Virginia	10	0	0	0	125	0	0	0	0	0	0	0
Army - OMNG	OMNG	Fort Pierce Readiness Center	Florida	15	0	0	0	0	0	0	0	0	0	0	0
Army - Active	ERA	Fort Polk	Louisiana	91	0	154	0	0	0	12	0	0	0	0	0
Army - Active	ERA	Fort Polk - Peason Ridge	Louisiana	56	0	5	0	0	0	0	0	0	0	0	0
Army - Active	ERA	Fort Riley	Kansas	91	0	467	0	0	0	147	0	278	0	1,371	0
Army - Active	ERA	Fort Rucker	Alabama	91	0	467	0	0	0	307	0	0	0	0	0
Army - OMNG	OMNG	Fort Ruger	Hawaii	15	0	0	0	0	0	0	0	0	0	0	0
Army - Active	ERA	Fort Sill	Oklahoma	234	0	5	0	0	0	68	0	673	0	0	0
Army - Active	ERA	Fort Stewart	Georgia	91	0	5	0	282	0	256	0	0	0	0	0
Army - Active	ERA	Fort Stewart - Hunter AAF	Georgia	56	0	5	0	282	0	256	0	0	0	0	0
Army - Active	ERA	Fort Wainwright	Alaska	239	0	5	0	0	0	73	0	0	0	0	0
Army - Active	ERA	Fort Wainwright - Gerstle River Test Site	Alaska	43	0	5	0	0	0	0	0	0	0	0	0
Army - Active	ERA	Fort Wainwright - Haines Pipeline Facilities	Alaska	59	0	5	0	0	0	0	0	0	0	0	0
Army - OMNG	OMNG	Fort William Henry Harrison /JFHQ MT	Montana	15	0	174	0	828	0	0	0	71	0	0	0
Army - OMNG	OMNG	Fresno TASMG	California	15	0	125	0	0	0	0	0	0	0	0	0
Army - OMNG	OMNG	Ft Custer	Michigan	15	0	0	0	125	0	0	0	0	0	0	0
Army - OMNG	OMNG	Ft. Belvoir AASF	District of Columbia	15	0	0	0	125	0	0	0	0	0	0	0
Army - OMNG	OMNG	Gary AASF	Indiana	15	0	0	0	125	0	50	0	0	0	0	0

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DoD Component	Fund Source ¹	Installation Name	State/Territory	Actual Obligations Through FY18 (Investigation ²) (\$000)	Actual Obligations Through FY18 (Cleanup ³) (\$000)	Actual Obligations in FY19 (Investigation ²) (\$000)	Actual Obligations in FY19 (Cleanup ³) (\$000)	Planned Obligations in FY20 (Investigation ²) (\$000)	Planned Obligations in FY20 (Cleanup ³) (\$000)	Actual Obligations in FY20 (Investigation ²) (\$000)	Actual Obligations in FY20 (Cleanup ³) (\$000)	Planned Obligations in FY21 (Investigation ²) (\$000)	Planned Obligations in FY21 (Cleanup ³) (\$000)	Planned Obligations after FY21 (Investigation ²) (\$000)	Planned Obligations after FY21 (Cleanup ³) (\$000)
Army - OMNG	OMNG	General Lucius D. Clay National Guard Center	Georgia	15	0	0	0	125	0	0	0	0	0	0	0
Army - OMNG	OMNG	Georgia Garrison Training Center	Georgia	15	0	0	0	0	0	0	0	0	0	0	0
Army - OMNG	OMNG	Gowen Field Boise/Airport Training Area	Idaho	16	0	0	0	125	0	0	0	0	0	0	0
Army - OMNG	OMNG	Grand Island AASF/RC	Nebraska	15	0	0	0	125	0	50	0	0	0	0	0
Army - OMNG	OMNG	Grand Ledge AASF	Michigan	10	0	209	0	0	0	50	0	1,066	0	77	0
Army - OMNG	OMNG	Grand Prairie (DNAS)	Texas	15	0	0	0	125	0	0	0	0	0	0	0
Army - OMNG	OMNG	Green Army AASF#1	Ohio	15	0	0	0	125	0	0	0	0	0	0	0
Army - OMNG	OMNG	Groton AVCRAD and TASMG Hangar 2	Connecticut	15	0	0	0	125	0	95	0	0	0	0	0
Army - OMNG	OMNG	Gurabo Readiness Center	Puerto Rico	15	0	0	0	0	0	0	0	0	0	0	0
Army - OMNG	OMNG	Gypsum (HAATS)	Colorado	15	0	0	0	125	0	95	0	0	0	0	0
Army - OMNG	OMNG	Hammond AASF #1	Louisiana	15	0	0	0	0	0	50	0	0	0	0	0
Army - Active	ERA	Hawthorne Army Depot	Nevada	234	0	5	0	0	0	316	0	0	0	0	0
Army - OMNG	OMNG	Helena Aviation Readiness Center - AASF	Montana	10	0	0	0	125	0	0	0	0	0	0	0
Army - OMNG	OMNG	Hilo AASF #2	Hawaii	15	0	0	0	0	0	0	0	0	0	0	0
Army - OMNG	OMNG	Holman Field AASF	Minnesota	15	0	0	0	125	0	95	0	0	0	0	0
Army - Active	ERA	Holston Army Ammunition Plant	Tennessee	91	0	35	0	0	0	12	0	0	0	0	0
Army - OMNG	OMNG	Hunter AAF - AASF Hangar 805	Georgia	15	0	0	0	125	0	0	0	0	0	0	0
Army - Active	ERA	Indiana Army Ammunition Plant	Indiana	0	0	0	0	0	0	0	0	0	0	0	0
Army - Active	ERA	Iowa Army Ammunition Plant	Iowa	91	0	344	0	0	0	7	0	0	0	0	0
Army - OMNG	OMNG	Jackson Airport Armory/AASF #3	Tennessee	10	0	0	0	125	0	0	0	0	0	0	0
Army - OMNG	OMNG	Jacksonville, Cecil Field, AASF #1	Florida	15	0	0	0	125	0	0	0	0	0	0	0
Army - Active	ERA	JB Lewis McChord	Washington	1,358	0	485	0	2,931	0	2,030	0	3,979	0	4,059	0
Army - Active	ERA	JB Lewis McChord - Yakima Training Center	Washington	91	0	5	0	172	0	164	0	0	0	0	0
Army - Active	ERA	JB Myer Henderson Hall	Virginia	23	0	77	0	0	0	12	0	0	0	0	0
Army - OMNG	OMNG	Jefferson City AASF/Armory	Missouri	15	0	0	0	125	0	0	0	0	0	0	0
Army - OMNG	OMNG	JFHQ Camp Johnson	Vermont	15	0	0	0	0	0	0	0	0	0	0	0
Army - OMNG	ERA	JFTB Los Alamitos	California	0	0	0	0	1,267	0	0	0	368	0	118	0
Army - OMNG	OMNG	JFTB Los Alamitos	California	16	0	157	0	0	0	0	0	0	0	0	0
Army - OMNG	OMNG	Johnstown AASF #2/Readiness Center	Pennsylvania	15	0	0	0	125	0	50	0	0	0	0	0
Army - OMNG	OMNG	Joint Base Berry Field	Tennessee	10	0	0	0	0	0	0	0	0	0	0	0
Army - OMNG	OMNG	Joint Forces Headquarters	South Dakota	15	0	0	0	0	0	0	0	0	0	0	0
Army - Active	ERA	Joliet Army Ammunition Plant	Illinois	0	0	0	0	0	0	0	0	0	0	0	0
Army - OMNG	OMNG	Juneau AAOF	Alaska	15	0	0	0	125	0	50	0	0	0	0	0
Army - OMNG	OMNG	Kalaaloa Facility (Former Barbers Point-NAS)	Hawaii	15	0	0	0	125	0	50	0	0	0	0	0
Army - OMNG	OMNG	Kankakee AASF / Readiness Center	Illinois	15	0	0	0	125	0	0	0	0	0	0	0
Army - Active	ERA	Kwajalein Atoll	Marshall Islands	0	0	0	0	79	0	0	0	0	0	0	0
Army - OMNG	OMNG	Lake Charles Chenault Airfield	Louisiana	0	0	0	0	0	0	0	0	0	0	0	0
Army - Active	ERA	Lake City Ammunition Plant	Missouri	326	0	5	0	0	0	12	0	583	0	595	0
Army - OMNG	OMNG	Lakeland Readiness Center	Florida	15	0	0	0	0	0	0	0	0	0	0	0
Army - OMNG	OMNG	Lansing Airport Hangar	Michigan	15	0	0	0	0	0	50	0	0	0	0	0
Army - OMNG	OMNG	Las Vegas Cheyenne AASF	Nevada	15	0	0	0	0	0	50	0	0	0	0	0
Army - Active	ERA	Letterkenny Army Depot	Pennsylvania	91	0	5	0	172	0	164	0	0	0	0	0

Appendix: Per- and Polyfluoroalkyl Substances Investigation and Cleanup Costs by DoD Installation

DoD Component	Fund Source ¹	Installation Name	State/Territory	Actual Obligations Through FY18 (Investigation ²) (\$000)	Actual Obligations Through FY18 (Cleanup ³) (\$000)	Actual Obligations in FY19 (Investigation ²) (\$000)	Actual Obligations in FY19 (Cleanup ³) (\$000)	Planned Obligations in FY20 (Investigation ²) (\$000)	Planned Obligations in FY20 (Cleanup ³) (\$000)	Actual Obligations in FY20 (Investigation ²) (\$000)	Actual Obligations in FY20 (Cleanup ³) (\$000)	Planned Obligations in FY21 (Investigation ²) (\$000)	Planned Obligations in FY21 (Cleanup ³) (\$000)	Planned Obligations after FY21 (Investigation ²) (\$000)	Planned Obligations after FY21 (Cleanup ³) (\$000)
Army - OMNG	OMNG	Lexington AASF #1	Oklahoma	15	0	0	0	125	0	50	0	0	0	0	0
Army - Active	ERA	Lima Army Tank Plant	Ohio	57	0	5	0	172	0	76	0	0	0	0	0
Army - OMNG	OMNG	Lincoln AASF/Readiness Center	Nebraska	15	0	0	0	125	0	50	0	0	0	0	0
Army - Active	ERA	Longhorn Army Ammunition Plant	Texas	0	0	0	0	0	0	0	0	0	0	0	0
Army - OMNG	OMNG	Madison AASF #2	Wisconsin	15	0	0	0	0	0	50	0	0	0	0	0
Army - OMNG	OMNG	Mansfield LAHM Fire Station	Ohio	15	0	0	0	0	0	0	0	0	0	0	0
Army - OMNG	OMNG	Mariana Readiness Ctr	Florida	15	0	0	0	0	0	95	0	0	0	0	0
Army - OMNG	OMNG	Martindale - AASF	Texas	15	0	0	0	125	0	95	0	0	0	0	0
Army - OMNG	OMNG	Mayaguez Readiness Center	Puerto Rico	15	0	0	0	0	0	0	0	0	0	0	0
Army - Active	ERA	McAlester Army Ammunition Plant	Oklahoma	234	0	5	0	0	0	56	0	132	0	394	0
Army - OMNG	OMNG	McCrary Training Site	South Carolina	16	0	0	0	0	0	95	0	0	0	0	0
Army - OMNG	OMNG	McEntire ANG AASF	South Carolina	15	0	0	0	0	0	0	0	0	0	0	0
Army - OMNG	OMNG	McNary Field Salem AASF	Oregon	15	0	126	0	0	0	95	0	480	0	54	0
Army - Active	ERA	Milan Army Ammunition Plant	Tennessee	91	0	246	0	0	0	12	0	0	0	0	0
Army - Active	ERA	Military Ocean Terminal Concord	California	91	0	246	0	0	0	12	0	0	0	0	0
Army - Active	ERA	Military Ocean Terminal Sunny Point	North Carolina	186	0	5	0	0	0	5	0	112	0	333	0
Army - OMNG	OMNG	Morrisville AASF #1	North Carolina	15	0	0	0	125	0	0	0	0	0	0	0
Army - OMNG	OMNG	MTA Camp Rilea	Oregon	15	0	0	0	125	0	95	0	0	0	0	0
Army - OMNG	OMNG	MTC-H Camp Grayling Aifield (installation-wide PA)	Michigan	22	0	334	0	990	550	95	0	0	0	0	0
Army - OMNG	OMNG	MTC-H Camp Grayling-Cantonment	Michigan	0	0	229	0	0	0	0	0	0	0	0	0
Army - OMNG	OMNG	MTC-H Camp Grayling-MATES	Michigan	0	0	179	0	0	0	0	0	1,066	0	77	0
Army - OMNG	OMNG	MTCH Camp Guernsey	Wyoming	22	0	0	0	125	0	95	0	0	0	0	0
Army - OMNG	OMNG	Muscatatuck Urban Training Center	Indiana	10	0	0	0	0	0	95	0	0	0	0	0
Army - Active	ERA	Natick Soldier Systems Center	Massachusetts	56	0	5	0	0	0	0	0	0	0	0	0
Army - OMNG	OMNG	NG Sacramento Mather (AASF)	California	10	0	0	0	125	0	0	0	0	0	0	0
Army - OMNG	OMNG	Nome AAOF	Alaska	15	0	0	0	0	0	50	0	0	0	0	0
Army - OMNG	OMNG	Norfolk FMS #7	Nebraska	15	0	0	0	0	0	50	0	0	0	0	0
Army - OMNG	OMNG	North Smithfield	Rhode Island	15	0	0	0	0	0	0	0	0	0	0	0
Army - OMNG	OMNG	Orchard MATES Boise	Idaho	15	0	0	0	125	0	0	0	0	0	0	0
Army - OMNG	OMNG	Pang Base Enclave	Oregon	15	0	0	0	0	0	0	0	0	0	0	0
Army - OMNG	OMNG	Parkersburg AASF #1	West Virginia	15	0	0	0	125	0	50	0	125	0	0	0
Army - OMNG	OMNG	Pelham Range	Alabama	15	0	0	0	125	0	0	0	0	0	0	0
Army - OMNG	OMNG	Pendleton Complex Armory / AASF	Oregon	15	0	0	0	125	0	95	0	0	0	0	0
Army - OMNG	OMNG	Pensacola (Ellyson Field)	Florida	15	0	0	0	0	0	0	0	0	0	0	0
Army - OMNG	OMNG	Peoria AASF #3 and AASF #4	Illinois	15	0	0	0	125	0	0	0	0	0	0	0
Army - Active	ERA	Picatinny Arsenal	New Jersey	1,241	0	11	0	0	0	12	0	414	0	828	0
Army - Active	ERA	Pine Bluff Arsenal	Arkansas	91	0	154	0	0	0	12	0	91	0	271	0
Army - OMNG	OMNG	Plant City Readiness Center	Florida	15	0	0	0	0	0	0	0	0	0	0	0
Army - OMNG	OMNG	Popago Military Reservation	Arizona	15	0	0	0	125	0	0	0	0	0	0	0
Army - Active	ERA	Presidio of Monterey	California	43	0	5	0	0	0	0	0	0	0	0	0
Army - Active	ERA	Presidio of Monterey - Sharpe Army Depot	California	91	0	154	0	0	0	12	0	0	0	0	0
Army - OMNG	OMNG	Presque Isle SFRO	Maine	15	0	0	0	0	0	0	0	0	0	0	0
Army - Active	ERA	Pueblo Army Depot	Colorado	23	0	44	0	0	0	7	0	0	0	0	0

Appendix: Per- and Polyfluoroalkyl Substances Investigation and Cleanup Costs by DoD Installation

DoD Component	Fund Source ¹	Installation Name	State/Territory	Actual Obligations Through FY18 (Investigation ²) (\$000)	Actual Obligations Through FY18 (Cleanup ³) (\$000)	Actual Obligations in FY19 (Investigation ²) (\$000)	Actual Obligations in FY19 (Cleanup ³) (\$000)	Planned Obligations in FY20 (Investigation ²) (\$000)	Planned Obligations in FY20 (Cleanup ³) (\$000)	Actual Obligations in FY20 (Investigation ²) (\$000)	Actual Obligations in FY20 (Cleanup ³) (\$000)	Planned Obligations in FY21 (Investigation ²) (\$000)	Planned Obligations in FY21 (Cleanup ³) (\$000)	Planned Obligations after FY21 (Investigation ²) (\$000)	Planned Obligations after FY21 (Cleanup ³) (\$000)
Army - OMNG	OMNG	Quonset Point-AASF	Rhode Island	15	0	0	0	125	0	50	0	0	0	0	0
Army - Active	ERA	Radford Army Ammunition Plant	Virginia	91	0	154	0	0	0	12	0	0	0	0	0
Army - OMNG	OMNG	Rapid City Airport Complex	South Dakota	16	0	0	0	0	0	50	0	0	0	0	0
Army - Active	ERA	Red River Army Depot	Texas	234	0	5	0	0	0	32	0	0	0	0	0
Army - Active	ERA	Redstone Arsenal	Alabama	91	0	5	0	450	0	395	0	0	0	0	0
Army - OMNG	OMNG	Reno AASF	Nevada	15	0	0	0	0	0	50	0	0	0	0	0
Army - OMNG	OMNG	Rickenbacker (MTA) - AASF #2	Ohio	15	0	0	0	125	0	50	0	0	0	0	0
Army - OMNG	OMNG	Riorancho	New Mexico	15	0	0	0	0	0	50	0	0	0	0	0
Army - OMNG	OMNG	River Road Training Site	Delaware	15	0	0	0	0	0	0	0	0	0	0	0
Army - OMNG	OMNG	Rochester Readiness Center/AASF #2	New York	10	0	0	0	125	0	50	0	0	0	0	0
Army - Active	ERA	Rock Island Arsenal	Illinois	91	0	246	0	0	0	36	0	0	0	0	0
Army - Active	ERA	Rocky Mountain Arsenal	Colorado	0	0	0	0	0	0	0	0	0	0	0	0
Army - OMNG	OMNG	Ronkonkoma Readiness Center/AASF #1	New York	10	0	0	0	0	0	50	0	0	0	0	0
Army - OMNG	OMNG	Roseville Armory	California	15	0	0	0	125	0	95	0	0	0	0	0
Army - OMNG	OMNG	Roswell	New Mexico	15	0	0	0	0	0	50	0	0	0	0	0
Army - OMNG	OMNG	Salina AASF #2	Kansas	15	0	0	0	0	0	50	0	0	0	0	0
Army - OMNG	OMNG	Salisbury AASF #2	North Carolina	15	0	0	0	125	0	0	0	0	0	0	0
Army - OMNG	OMNG	Santa Fe AASF	New Mexico	15	0	0	0	0	0	50	0	0	0	0	0
Army - Active	ERA	Scranton Army Ammunition Plant	Pennsylvania	23	0	44	0	0	0	5	0	0	0	0	0
Army - OMNG	OMNG	Shelbyville AASF	Indiana	10	0	0	0	125	0	0	0	0	0	0	0
Army - Active	ERA	Sierra Army Depot	California	629	0	5	0	0	0	150	0	331	0	987	0
Army - OMNG	OMNG	Silver Bell Army Heliport	Arizona	10	0	125	0	0	0	0	0	0	0	0	0
Army - OMNG	OMNG	South Burlington AASF / Readiness Center	Vermont	15	0	0	0	0	0	0	0	0	0	0	0
Army - OMNG	OMNG	Sparta Armory	Illinois	0	0	0	0	0	0	0	0	0	0	0	0
Army - OMNG	OMNG	Springfield AVCRAD	Missouri	15	0	0	0	125	0	0	0	0	0	0	0
Army - OMNG	OMNG	St Cloud AASF	Minnesota	15	0	100	0	0	0	0	0	0	0	0	0
Army - Active	ERA	St Louis Army Ammunition Plant	Missouri	0	0	0	0	0	0	0	0	0	0	0	0
Army - OMNG	OMNG	State Military Reservation	New Hampshire	15	0	0	0	125	0	50	0	0	0	0	0
Army - OMNG	OMNG	Stern Armory	Delaware	15	0	0	0	0	0	0	0	0	0	0	0
Army - OMNG	OMNG	Stockton AASF	California	15	0	0	0	125	0	0	0	0	0	0	0
Army - OMNG	OMNG	Strafford TS - New Hampshire TS	New Hampshire	15	0	102	0	0	0	50	0	0	0	0	0
Army - Active	ERA	Sunflower Army Ammunition Plant	Kansas	0	0	0	0	0	0	0	0	0	0	0	0
Army - OMNG	OMNG	Sustained Airborne TNG FAC	Utah	15	0	0	0	0	0	95	0	0	0	0	0
Army - Active	ERA	Tarheel Army Missile Plant	North Carolina	0	0	0	0	0	0	0	0	0	0	0	0
Army - OMNG	OMNG	TASMG Gulfport	Mississippi	15	0	0	0	125	0	0	0	0	0	0	0
Army - OMNG	OMNG	Tempe Readiness Center	Arizona	10	0	0	0	0	0	0	0	0	0	0	0
Army - Active	ERA	Tobyhanna Army Depot	Pennsylvania	91	0	5	0	172	0	247	0	0	0	0	0
Army - Active	ERA	Tooele Army Depot	Utah	91	0	5	0	450	0	395	0	0	0	0	0
Army - Active	ERA	Tooele Army Depot South (Deseret Chemical Depot)	Utah	57	0	5	0	282	0	256	0	0	0	0	0
Army - OMNG	OMNG	Topeka Forbes Field AASF #1	Kansas	10	0	0	0	125	0	0	0	0	0	0	0
Army - OMNG	ERA	TS Ethan Allen Range	Vermont	0	0	0	0	125	0	0	0	0	0	0	0
Army - OMNG	OMNG	TS Ethan Allen Range	Vermont	22	2	0	0	0	0	0	0	0	0	0	0
Army - OMNG	OMNG	Tulsa AASF #2	Oklahoma	15	0	0	0	125	0	50	0	0	0	0	0
Army - Active	ERA	Twin Cities Army Ammunition Plant	Minnesota	0	0	0	0	0	0	0	0	0	0	0	0
Army - OMNG	OMNG	Umatilla Depot	Oregon	15	0	0	0	125	0	95	0	0	0	0	0

Appendix: Per- and Polyfluoroalkyl Substances Investigation and Cleanup Costs by DoD Installation

DoD Component	Fund Source ¹	Installation Name	State/Territory	Actual Obligations Through FY18 (Investigation ²) (\$000)	Actual Obligations Through FY18 (Cleanup ³) (\$000)	Actual Obligations in FY19 (Investigation ²) (\$000)	Actual Obligations in FY19 (Cleanup ³) (\$000)	Planned Obligations in FY20 (Investigation ²) (\$000)	Planned Obligations in FY20 (Cleanup ³) (\$000)	Actual Obligations in FY20 (Investigation ²) (\$000)	Actual Obligations in FY20 (Cleanup ³) (\$000)	Planned Obligations in FY21 (Investigation ²) (\$000)	Planned Obligations in FY21 (Cleanup ³) (\$000)	Planned Obligations after FY21 (Investigation ²) (\$000)	Planned Obligations after FY21 (Cleanup ³) (\$000)
Army - Active	ERA	USAG HI - Dillingham Military Reservation	Hawaii	45	0	5	0	0	0	0	0	0	0	0	0
Army - Active	ERA	USAG HI - Fort Shafter/Tripler Army Medical Center	Hawaii	45	0	5	0	0	0	12	0	0	0	0	0
Army - Active	ERA	USAG HI - Helemano RAD REC Station	Hawaii	45	0	5	0	0	0	12	0	0	0	0	0
Army - Active	ERA	USAG HI - Kahuku Training Area	Hawaii	45	0	5	0	0	0	0	0	0	0	0	0
Army - Active	ERA	USAG HI - Kilauea Military Reservation	Hawaii	45	0	5	0	0	0	12	0	0	0	0	0
Army - Active	ERA	USAG HI - Kipapa Ammunition Storage Site	Hawaii	45	0	5	0	0	0	0	0	0	0	0	0
Army - Active	ERA	USAG HI - Kunia Field Station	Hawaii	45	0	5	0	0	0	0	0	0	0	0	0
Army - Active	ERA	USAG HI - Makua Military Reservation	Hawaii	60	0	5	0	0	0	0	0	0	0	0	0
Army - Active	ERA	USAG HI - Pohakuloa Training Center	Hawaii	45	0	5	0	282	0	275	0	0	0	0	0
Army - Active	ERA	USAG HI - Schofield Barracks	Hawaii	99	0	5	0	450	0	571	0	0	0	0	0
Army - Active	ERA	USAG HI - Waikakalaua Ammunition Storage Tunnels	Hawaii	45	0	5	0	0	0	0	0	0	0	0	0
Army - Active	ERA	USAG HI - Wheeler Army Airfield	Hawaii	60	0	5	0	0	0	12	0	0	0	0	0
Army - OMNG	OMNG	Vega Baja Readiness Center	Puerto Rico	15	0	0	0	0	0	50	0	0	0	0	0
Army - Active	ERA	Volunteer Army Ammunition Plant	Tennessee	0	0	0	0	0	0	0	0	0	0	0	0
Army - OMNG	ERA	VTS Smyrna	Tennessee	0	0	0	0	125	0	0	0	0	0	0	0
Army - OMNG	OMNG	VTS Smyrna	Tennessee	15	0	126	0	0	0	0	0	0	0	0	0
Army - OMNG	OMNG	W.H. Ford Regional Training Center	Kentucky	22	0	0	0	125	0	50	0	0	0	0	0
Army - OMNG	OMNG	Waiawa Unit Training Equipment Site (UTES)	Hawaii	15	0	0	0	125	0	0	0	0	0	0	0
Army - OMNG	OMNG	Watercraft Maintenance Support Center	Puerto Rico	15	0	0	0	0	0	0	0	0	0	0	0
Army - OMNG	OMNG	Waterloo Big Rock AASF #2	Iowa	15	0	0	0	125	0	0	0	0	0	0	0
Army - Active	ERA	Watervliet Arsenal	New York	91	0	154	0	0	0	12	0	342	0	1,018	0
Army - OMNG	OMNG	Weide AASF (enclave on APG)	Maryland	15	0	0	0	0	0	0	0	0	0	0	0
Army - OMNG	OMNG	Wendover Airport - AVFAC	Utah	15	0	0	0	0	0	50	0	0	0	0	0
Army - OMNG	OMNG	West Bend AASF #1 / Armory	Wisconsin	15	0	0	0	125	0	0	0	0	0	0	0
Army - Active	ERA	West Point	New York	524	0	5	0	0	0	12	0	0	0	0	0
Army - OMNG	OMNG	Westfield/Barnes AASF	Massachusetts	10	0	0	0	0	0	0	0	0	0	0	0
Army - OMNG	OMNG	Wheeling - AASF #2	West Virginia	15	0	0	0	125	0	0	0	0	0	0	0
Army - Active	ERA	White Sands Missile Range	New Mexico	91	0	246	0	0	0	12	0	0	0	0	0
Army - Active	ERA	White Sands Missile Range - Green River Test Site	Utah	56	0	5	0	0	0	7	0	0	0	0	0
Army - OMNG	OMNG	Whiteman Flight Facility	Missouri	15	0	0	0	125	0	0	0	0	0	0	0
Army - OMNG	OMNG	Wilmington Armory	Delaware	15	0	0	0	0	0	0	0	0	0	0	0
Army - OMNG	OMNG	Winder Barrow County Airport (enclave)	Georgia	15	0	0	0	125	0	50	0	0	0	0	0
Army - OMNG	OMNG	Windsor Locks AASF	Connecticut	16	0	0	0	125	0	0	0	0	0	0	0
Army - Active	ERA	Yuma Proving Ground	Arizona	756	0	5	0	0	0	12	0	0	0	0	0
Army - Active	ERA	N/A - Program Management ⁴	N/A	0	0	0	0	0	0	2,753	0	0	0	71,770	0

Appendix: Per- and Polyfluoroalkyl Substances Investigation and Cleanup Costs by DoD Installation

DoD Component	Fund Source ¹	Installation Name	State/Territory	Actual Obligations Through FY18 (Investigation ²) (\$000)	Actual Obligations Through FY18 (Cleanup ³) (\$000)	Actual Obligations in FY19 (Investigation ²) (\$000)	Actual Obligations in FY19 (Cleanup ³) (\$000)	Planned Obligations in FY20 (Investigation ²) (\$000)	Planned Obligations in FY20 (Cleanup ³) (\$000)	Actual Obligations in FY20 (Investigation ²) (\$000)	Actual Obligations in FY20 (Cleanup ³) (\$000)	Planned Obligations in FY21 (Investigation ²) (\$000)	Planned Obligations in FY21 (Cleanup ³) (\$000)	Planned Obligations after FY21 (Investigation ²) (\$000)	Planned Obligations after FY21 (Cleanup ³) (\$000)
Army - OMNG	OMNG	N/A - Program Management	N/A	0	0	0	0	0	0	4,176	349	0	0	14,208	0
Army Subtotals:				19,455	6	11,935	0	26,518	550	23,616	489	24,589	0	98,801	0
Navy - Active	ERA	AMCHITKA AK FLTURSPTDET1	Alaska	0	0	0	0	50	0	395	0	0	0	0	0
Navy - Active	ERA	ANACOSTIA DC NS	District of Colum	156	0	0	0	0	0	0	0	0	0	0	0
Navy - Active	ERA	ANNAPOLIS MD NS	Maryland	156	0	0	0	0	0	0	0	0	0	0	0
Navy - Active	ERA	AZUSA CA NCCOSC MORRIS DA	California	0	0	629	0	0	0	0	0	826	0	0	0
Navy - Active	ERA	BAINBRIDGE MD NTC	Maryland	0	0	0	0	50	0	42	0	0	0	0	0
Navy - Active	ERA	BARBERS POINT HI NAS	Hawaii	199	0	0	0	0	0	0	0	0	0	0	0
Navy - Active	ERA	BARKING SANDS HI PMRF	Hawaii	317	0	0	0	221	0	96	0	0	0	2,061	0
Navy - Active	ERA	BARROW AK NARL	Alaska	708	0	0	0	403	0	99	0	2,397	0	500	0
Navy - Active	ERA	BEDFORD MA NWRIP	Massachusetts	24	3	3	0	3	0	3	0	3	0	13	0
Navy - Active	ERA	BETHPAGE NY NWIRP	New York	137	0	0	0	0	0	0	0	0	0	0	0
Navy - Active	ERA	BLOOMFIELD CT NWIRP	Connecticut	0	0	0	0	50	0	0	0	0	0	0	0
Navy - Active	ERA	BREMERTON WA NAVBASE	Washington	1,082	0	0	2,177	1,368	0	1,001	0	0	395	3,902	0
Navy - Active	ERA	BREMERTON PUGTSND WA FISC	Washington	482	0	0	0	0	0	95	0	0	0	0	0
Navy - Active	ERA	BRISTOL TN NWIRP	Tennessee	177	0	0	0	0	0	0	0	0	0	0	0
Navy - Active	ERA	CALVERTON NY NPRO	New York	1,801	0	1,966	0	583	0	3,550	0	0	0	2,071	0
Navy - Active	ERA	CHESAPEAKE BEACH MD RESLB	Maryland	782	0	239	0	0	0	0	0	289	0	0	681
Navy - Active	ERA	CHESAPEAKE VA NSGA NW	Virginia	81	0	688	0	0	0	0	0	0	0	562	0
Navy - Active	ERA	CHESAPEAKE VA STJULCREEK	Virginia	234	0	0	0	0	0	325	0	0	0	4,110	0
Navy - Active	ERA	CHINA LAKE CA NAWCWPNNDIV	California	633	0	0	0	700	0	700	0	2,102	0	5,299	0
Navy - Active	ERA	CID CORRY STATION	Florida	50	0	374	0	843	0	944	0	425	0	850	0
Navy - Active	ERA	CORPUS CHRISTI TX NAS	Texas	393	0	896	0	0	0	0	0	450	0	900	0
Navy - Active	ERA	CRANEY ISLAND VA NFD/NSC	Virginia	0	0	0	0	0	0	0	0	0	0	561	0
Navy - Active	ERA	DAHLGREN VA NSWCTR DIV	Virginia	273	0	0	0	0	0	0	0	0	0	318	0
Navy - Active	ERA	DALLAS TX NWIRP	Texas	264	0	0	0	0	0	0	0	0	0	0	0
Navy - Active	ERA	DAM NECK VA	Virginia	300	0	175	0	597	0	597	0	0	0	4,098	0
Navy - Active	ERA	EL CENTRO CA NAF	California	297	0	0	0	0	0	0	0	2,004	0	0	0
Navy - Active	ERA	FALLON NV NAS	Nevada	515	0	0	0	333	0	333	0	1,568	0	0	0
Navy - Active	ERA	FISC JAX (NWCF)	Florida	50	0	0	0	0	0	0	0	0	0	0	0
Navy - Active	ERA	FT WORTH TX NAS JRB	Texas	538	0	0	0	0	0	0	0	441	0	882	0
Navy - Active	ERA	GREAT LAKES IL NSTC	Illinois	5	0	507	0	0	0	0	0	0	0	668	0
Navy - Active	ERA	GUAM NAVACTS	Guam	1,100	0	2,973	0	2,126	0	1,904	0	0	0	2,419	0
Navy - Active	ERA	GULFPORT MS NCBC	Mississippi	737	0	546	0	0	0	0	0	441	0	502	0
Navy - Active	ERA	IMPERIAL BEACH CA NAVALF	California	452	0	0	0	0	0	0	0	0	0	1,470	0
Navy - Active	ERA	INDIAN HEAD MD NSWCTRDIV	Maryland	454	0	0	0	0	0	0	0	0	0	0	0
Navy - Active	ERA	INDIAN ISLAND WA NAVMAG	Washington	376	0	0	0	1,280	0	1,290	0	0	0	0	0
Navy - Active	ERA	JACKSONVILLE FL NAS	Florida	910	0	853	0	1,125	0	2,387	0	450	0	1,803	0
Navy - Active	ERA	JBPHH PEARL HARBOR HI	Hawaii	1,281	0	0	0	106	0	44	0	0	0	2,476	0
Navy - Active	ERA	KEY WEST FL NAS	Florida	426	0	0	0	0	0	0	0	0	0	1,350	0
Navy - Active	ERA	KEYPORT WA NUWC DIV	Washington	493	0	0	0	687	0	1,431	0	0	0	1,265	0
Navy - Active	ERA	KINGS BAY GA NSB	Georgia	446	0	0	0	0	0	0	0	0	0	900	0
Navy - Active	ERA	KINGSVILLE TX NAS	Texas	376	0	0	0	0	0	0	0	452	0	904	0
Navy - Active	ERA	LEMOORE CA NAS	California	355	0	0	0	0	0	0	0	1,574	0	0	0

Appendix: Per- and Polyfluoroalkyl Substances Investigation and Cleanup Costs by DoD Installation

DoD Component	Fund Source ¹	Installation Name	State/Territory	Actual Obligations Through FY18 (Investigation ²) (\$000)	Actual Obligations Through FY18 (Cleanup ³) (\$000)	Actual Obligations in FY19 (Investigation ²) (\$000)	Actual Obligations in FY19 (Cleanup ³) (\$000)	Planned Obligations in FY20 (Investigation ²) (\$000)	Planned Obligations in FY20 (Cleanup ³) (\$000)	Actual Obligations in FY20 (Investigation ²) (\$000)	Actual Obligations in FY20 (Cleanup ³) (\$000)	Planned Obligations in FY21 (Investigation ²) (\$000)	Planned Obligations in FY21 (Cleanup ³) (\$000)	Planned Obligations after FY21 (Investigation ²) (\$000)	Planned Obligations after FY21 (Cleanup ³) (\$000)
Navy - Active	ERA	LITTLE CREEK VA NAVPHIBSE	Virginia	455	0	63	0	0	0	1,670	0	1,263	0	1,632	0
Navy - Active	ERA	MANCHESTER WA FUELDP TSPND	Washington	328	0	0	0	717	0	523	0	0	0	547	0
Navy - Active	ERA	MAYPORT FL NS	Florida	358	0	448	0	0	0	0	0	441	0	932	0
Navy - Active	ERA	MCCLENNAN TX NIROP	Texas	262	0	0	0	343	0	0	0	0	0	696	0
Navy - Active	ERA	MECHANICSBURG PA NAVICP	Pennsylvania	265	0	678	0	0	0	0	0	0	0	3,356	0
Navy - Active	ERA	MERIDIAN MS NAS	Mississippi	2,249	0	0	0	2,410	0	4,332	0	1,428	0	2,102	6,263
Navy - Active	ERA	MILLINGTON TN SUPPACT	Tennessee	204	0	0	0	0	0	0	0	0	0	882	0
Navy - Active	ERA	MINNEAPOLIS MN NIROP	Minnesota	0	0	0	0	50	0	50	0	0	0	0	0
Navy - Active	ERA	NAS PT MUGU CA NAVAIRWARC	California	353	0	0	0	1,475	0	1,475	0	0	0	0	0
Navy - Active	ERA	NAVBASE CORONADO	California	948	0	0	0	0	0	0	0	780	0	2,185	0
Navy - Active	ERA	NAVBASE SAN DIEGO	California	358	0	117	0	0	0	0	0	0	0	1,411	0
Navy - Active	ERA	NAVCOMTELSTA STOCKTON	California	466	0	0	0	0	0	0	0	1,375	0	0	0
Navy - Active	ERA	NAVFAC HAWAII P HARBOR	Hawaii	181	0	0	0	240	0	213	0	0	0	0	0
Navy - Active	ERA	NAVSURFWARCEN WBETH DD	Maryland	260	0	0	0	0	0	0	0	0	0	209	0
Navy - Active	ERA	NAVSURFWARCENDIV CRANE	Indiana	238	0	487	0	0	0	0	0	0	0	1,768	0
Navy - Active	ERA	NCTAMSLANT DET CUTLER	Maine	410	0	268	0	0	0	0	0	657	0	1,314	0
Navy - Active	ERA	NEW LONDON CT NSB	Connecticut	185	0	419	0	0	0	0	0	0	0	655	0
Navy - Active	ERA	NEW ORLEANS LA NAS JRB	Louisiana	445	0	604	0	0	0	0	0	441	0	909	0
Navy - Active	ERA	NEWPORT RI NETC	Rhode Island	873	0	0	0	83	0	459	0	129	0	2,452	0
Navy - Active	ERA	NMC DET EARLE	New Jersey	1,093	59	304	0	378	584	378	0	0	0	1,545	333
Navy - Active	ERA	NMC DET YORKTOWN	Virginia	431	0	157	0	0	0	0	0	0	0	2,397	0
Navy - Active	ERA	NMC EAD DET PEARL HARBOR	Hawaii	532	0	0	0	0	0	0	0	0	0	0	0
Navy - Active	ERA	NORFOLK VA FISC	Virginia	266	0	0	0	0	0	0	0	0	0	555	0
Navy - Active	ERA	NORFOLK VA NB	Virginia	1,000	0	0	0	0	0	0	0	0	0	2,314	0
Navy - Active	ERA	NSA ANDERSEN GUAM	Guam	869	0	1,262	0	0	0	806	0	7	0	2,063	0
Navy - Active	ERA	NSWC DIV PANAMA CITY	Florida	125	0	0	0	0	0	0	0	0	0	450	0
Navy - Active	ERA	OCEANA VA NAS	Virginia	4,140	95	2,097	8,704	3,712	602	2,475	602	0	353	7,247	9,955
Navy - Active	ERA	PATUXENT RIVER MD NAS	Maryland	1,315	0	0	0	4,097	0	3,519	0	0	0	2,101	0
Navy - Active	ERA	PEARL HARBOR HI FISC	Hawaii	81	0	0	0	92	0	85	0	288	0	0	0
Navy - Active	ERA	PEARL HARBOR HI NSY	Hawaii	396	0	0	0	0	0	22	0	0	0	415	0
Navy - Active	ERA	PENSACOLA FL NAS	Florida	1,061	0	1,625	0	1,125	0	1,414	0	425	0	1,435	0
Navy - Active	ERA	PORT HUENEME CA	California	9	0	0	0	814	0	814	0	0	0	0	0
Navy - Active	ERA	PORTS NSYD PORTS NH	Maine	278	0	0	0	458	0	0	0	0	0	0	5
Navy - Active	ERA	PORTSMOUTH VA NORFOLK NSY	Virginia	666	0	0	0	0	0	491	0	0	0	5,231	0
Navy - Active	ERA	PUGET SOUND WA NAVSHIPYD	Washington	1,751	0	0	0	2,052	0	3,538	0	0	0	0	0
Navy - Active	ERA	ROCKET CTR WVA WV ABL MNR	West Virginia	447	0	0	0	0	0	0	0	0	0	1,148	0
Navy - Active	ERA	ROOSEVELT ROADS RQ CGARCA	Puerto Rico	10	0	87	0	1,231	0	1,270	0	109	0	5,425	0
Navy - Active	ERA	SAN DIEGO CA AUXLNDFLD	California	282	0	0	0	406	0	0	0	0	0	414	0
Navy - Active	ERA	SAN DIEGO CA FASWTC PAC	California	212	0	0	0	0	0	0	0	0	0	960	0
Navy - Active	ERA	SAN DIEGO CA NISE-WEST	California	212	0	0	0	0	0	0	0	0	0	965	0

Appendix: Per- and Polyfluoroalkyl Substances Investigation and Cleanup Costs by DoD Installation

DoD Component	Fund Source ¹	Installation Name	State/Territory	Actual Obligations Through FY18 (Investigation ²) (\$000)	Actual Obligations Through FY18 (Cleanup ³) (\$000)	Actual Obligations in FY19 (Investigation ²) (\$000)	Actual Obligations in FY19 (Cleanup ³) (\$000)	Planned Obligations in FY20 (Investigation ²) (\$000)	Planned Obligations in FY20 (Cleanup ³) (\$000)	Actual Obligations in FY20 (Investigation ²) (\$000)	Actual Obligations in FY20 (Cleanup ³) (\$000)	Planned Obligations in FY21 (Investigation ²) (\$000)	Planned Obligations in FY21 (Cleanup ³) (\$000)	Planned Obligations after FY21 (Investigation ²) (\$000)	Planned Obligations after FY21 (Cleanup ³) (\$000)
Navy - Active	ERA	SAN NICOLAS IS CA OLF	California	150	0	0	0	0	0	0	0	0	0	0	0
Navy - Active	ERA	SAUFLEY FLD FL NAS	Florida	53	0	450	951	0	0	1,320	440	0	0	0	0
Navy - Active	ERA	SEAL BEACH CA WPNSUPFAC	California	640	0	0	0	587	0	706	0	0	0	1,489	0
Navy - Active	ERA	SOLOMONS MD NRECC	Maryland	30	0	0	0	0	0	97	0	0	0	0	0
Navy - Active	ERA	SPAWARSSYSCEN PACIFIC SD	California	212	0	0	0	813	0	497	0	0	0	0	0
Navy - Active	ERA	ST INIGOES MD NAVELEXSYS	Maryland	86	0	0	0	0	0	130	0	399	0	399	0
Navy - Active	ERA	W REED NAT MIL MED CTR	Maryland	62	0	0	0	0	0	0	0	0	0	0	0
Navy - Active	ERA	WASHINGTON DC COMNAVDIST	District of Colum	15	0	0	0	0	0	0	0	0	0	0	0
Navy - Active	ERA	WASHINGTON DC NAVSECSTA	District of Colum	0	0	0	0	50	0	42	0	0	0	0	0
Navy - Active	ERA	WASHINGTON DC NRL	District of Colum	260	0	0	0	0	0	0	0	0	0	387	0
Navy - Active	ERA	WHIDBEY IS WA NAS	Washington	8,036	7,077	375	5,351	1,990	4,103	6,862	2,089	3,761	2,099	8,806	7,143
Navy - Active	ERA	WHITING FLD FL NAS	Florida	609	437	0	0	1,125	128	1,573	154	0	0	3,150	0
Navy - Active	ERA	WILLIAMSBURG VA FISC CA	Virginia	144	0	455	0	0	0	0	0	0	0	2,221	0
Navy Subtotals:				51,369	7,672	19,745	17,183	34,773	5,417	49,997	3,285	24,925	2,847	112,051	24,380
USMC - Active ⁵	ERA	ALBANY GA MCLB	Georgia	545	0	0	0	0	0	0	0	0	0	0	0
USMC - Active ⁵	ERA	BARSTOW CA MCLB	California	1,009	6	1,300	6	0	0	0	0	0	0	0	51
USMC - Active ⁵	ERA	BEAUFORT SC MCAS	South Carolina	520	0	886	0	0	0	0	0	0	0	0	0
USMC - Active ⁵	ERA	CAMP LEJEUNE NC MCB	North Carolina	2,075	0	947	0	0	0	1,472	0	0	0	18,875	0
USMC - Active ⁵	ERA	CAMP PENDLETON CA MCB	California	516	0	1,707	0	0	0	0	0	0	0	0	0
USMC - Active ⁵	ERA	CHERRY POINT NC MCAS	North Carolina	3,473	0	1,293	0	444	0	875	0	1,465	0	9,017	0
USMC - Active ⁵	ERA	KANEOHE BAY HI MCB	Hawaii	436	0	0	0	250	0	105	0	0	0	823	0
USMC - Active ⁵	ERA	KANSAS CITY MO	Missouri	179	0	0	0	0	0	0	0	0	0	0	0
USMC - Active ⁵	ERA	MIRAMAR CA MCAS	California	614	0	771	0	0	0	0	0	465	0	1,421	0
USMC - Active ⁵	ERA	PARRIS ISLAND SC MCRD	South Carolina	445	0	181	0	0	0	0	0	0	0	126	0
USMC - Active ⁵	ERA	QUANTICO VA MCCOMBDEV CMD	Virginia	593	0	0	0	41	0	65	0	333	0	567	0
USMC - Active ⁵	ERA	SAN JUAN PR MCRC	Puerto Rico	5	0	0	0	0	0	0	0	0	0	0	0
USMC - Active ⁵	ERA	TWENTYNINE PALMS CA MAGCC	California	767	0	1,779	0	0	0	0	0	836	0	0	0
USMC - Active ⁵	ERA	YUMA AZ MCAS	Arizona	818	0	700	0	0	0	0	0	1,689	0	0	0
USMC Subtotals:				11,996	6	9,564	6	735	0	2,517	0	4,788	0	30,829	51
Air Force - Active	ERA	Air Force Plant 3	Oklahoma	1,186	0	8	303	0	0	0	0	0	0	568	0
Air Force - Active	ERA	Air Force Plant 36	Ohio	371	0	8	0	0	0	0	0	0	0	0	0
Air Force - Active	ERA	Air Force Plant 4	Texas	1,186	0	8	303	0	0	0	0	0	0	649	0
Air Force - Active	ERA	Air Force Plant 42	California	1,186	0	8	303	0	0	0	0	0	0	4,012	0
Air Force - Active	ERA	Air Force Plant 44	Arizona	686	0	8	303	0	0	0	0	0	0	0	0
Air Force - Active	ERA	Air Force Plant 6	Georgia	679	0	8	303	0	0	0	0	0	0	1,446	0
Air Force - Active	ERA	Air Force Plant 85	Ohio	723	0	8	303	0	0	0	0	0	0	293	0
Air Force - Active	ERA	Air Force Plant PJKS	Colorado	720	0	8	303	0	0	0	0	0	0	0	0
Air Force - Active	ERA	Air Force Research Laboratory Rome	New York	672	0	8	303	0	0	0	0	0	0	0	0
Air Force - ANG	ANG	Alpena	Michigan	0	0	0	0	0	0	2,512	0	0	0	0	0
Air Force - ANG	ERA	Alpena	Michigan	184	0	0	0	0	0	0	0	0	0	0	0
Air Force - Active	ERA	Altus AFB	Oklahoma	1,095	0	8	303	0	0	0	0	0	0	1,328	0
Air Force - Active	ERA	Arnold AFB	Tennessee	1,186	0	8	405	0	0	2,053	0	0	0	0	0
Air Force - ANG	ANG	Atlantic City	New Jersey	0	0	0	0	0	0	438	0	0	0	1,951	814
Air Force - ANG	ERA	Atlantic City	New Jersey	133	0	0	0	0	0	0	0	0	0	0	0

Appendix: Per- and Polyfluoroalkyl Substances Investigation and Cleanup Costs by DoD Installation

DoD Component	Fund Source ¹	Installation Name	State/Territory	Actual Obligations Through FY18 (Investigation ²) (\$000)	Actual Obligations Through FY18 (Cleanup ³) (\$000)	Actual Obligations in FY19 (Investigation ²) (\$000)	Actual Obligations in FY19 (Cleanup ³) (\$000)	Planned Obligations in FY20 (Investigation ²) (\$000)	Planned Obligations in FY20 (Cleanup ³) (\$000)	Actual Obligations in FY20 (Investigation ²) (\$000)	Actual Obligations in FY20 (Cleanup ³) (\$000)	Planned Obligations in FY21 (Investigation ²) (\$000)	Planned Obligations in FY21 (Cleanup ³) (\$000)	Planned Obligations after FY21 (Investigation ²) (\$000)	Planned Obligations after FY21 (Cleanup ³) (\$000)
Air Force - Active	ERA	Avon Park Air Force Reserve	Florida	673	0	8	303	0	0	0	0	0	0	464	0
Air Force - ANG	ANG	Bangor International Airport	Maine	0	0	0	0	0	0	0	0	0	0	1,951	0
Air Force - ANG	ERA	Bangor International Airport	Maine	149	0	0	0	0	0	0	0	0	0	0	0
Air Force - Active	ERA	Barksdale AFB	Louisiana	1,186	0	8	303	0	0	0	0	0	0	4,414	0
Air Force - ANG	ANG	Barnes Municipal	Massachusetts	0	0	0	1,351	0	0	0	0	0	0	1,951	10,811
Air Force - ANG	ERA	Barnes Municipal	Massachusetts	970	0	0	0	0	0	0	0	0	0	0	0
Air Force - Active	ERA	Beale AFB	California	1,094	0	8	303	0	0	0	0	0	0	2,549	0
Air Force - Active	ERA	Bellows Air Force Station	Hawaii	120	0	8	0	0	0	0	0	0	0	0	0
Air Force - ANG	ERA	Birmingham International Airport	Alabama	80	0	0	0	0	0	0	0	0	0	0	0
Air Force - ANG	ANG	Birmingham International Airport	Alabama	0	0	0	0	0	0	0	0	0	0	1,951	0
Air Force - ANG	ANG	Boise	Idaho	0	0	0	0	0	0	309	0	0	0	1,951	814
Air Force - ANG	ERA	Boise	Idaho	121	0	0	0	0	0	0	0	0	0	0	0
Air Force - ANG	ANG	Bradley International Airport	Connecticut	0	0	0	0	0	0	0	0	0	0	1,951	0
Air Force - ANG	ERA	Bradley International Airport	Connecticut	105	0	0	0	0	0	0	0	0	0	0	0
Air Force - Active	ERA	Buckley AFB	Colorado	722	0	8	405	0	0	6,250	0	0	0	0	0
Air Force - ANG	ANG	Burlington	Vermont	0	0	0	696	0	0	0	0	0	0	1,951	0
Air Force - ANG	ERA	Burlington	Vermont	743	377	0	41	0	0	0	0	0	0	0	0
Air Force - Active	ERA	Calumet Air Force Station	Michigan	97	0	8	0	0	0	0	0	0	0	0	0
Air Force - Active	ERA	Cannon AFB	New Mexico	1,186	0	8	405	0	0	9,116	0	0	281	3,686	3,404
Air Force - Active	ERA	Cape Canaveral Air Force Station	Florida	2,139	0	8	303	0	0	0	0	0	0	1,352	0
Air Force - Active	ERA	Cavalier Air Force Station	North Dakota	47	0	8	405	0	0	2,647	0	0	0	0	0
Air Force - ANG	ANG	Channel Islands	California	0	0	0	0	0	0	197	0	0	0	1,951	814
Air Force - ANG	ERA	Channel Islands	California	95	0	0	0	0	0	0	0	0	0	0	0
Air Force - ANG	ANG	Charlotte Douglas	North Carolina	0	0	0	0	0	0	0	0	300	0	1,951	814
Air Force - ANG	ERA	Charlotte Douglas	North Carolina	114	0	0	0	0	0	0	0	0	0	0	0
Air Force - Active	ERA	Cheyenne Mountain Air Force Station	Colorado	111	0	8	303	0	0	0	0	0	0	0	0
Air Force - ANG	ANG	Cheyenne Municipal	Wyoming	0	0	0	0	0	0	0	0	0	0	1,951	0
Air Force - ANG	ERA	Cheyenne Municipal	Wyoming	105	0	0	0	0	0	0	0	0	0	0	0
Air Force - Active	ERA	Clear Air Force Station	Alaska	1,052	0	8	0	0	0	0	0	0	0	0	0
Air Force - Active	ERA	Columbus AFB	Mississippi	1,186	0	8	303	0	0	0	0	0	0	1,322	0
Air Force - Active	ERA	Crech AFB	Nevada	954	0	8	303	0	0	0	0	0	0	3,904	0
Air Force - Active	ERA	Davis-Monthan AFB	Arizona	1,186	0	8	812	0	0	6,353	0	0	0	116	0
Air Force - ANG	ANG	Des Moines	Iowa	0	0	0	0	0	0	84	0	0	0	1,951	814
Air Force - ANG	ERA	Des Moines	Iowa	110	0	0	0	0	0	0	0	0	0	0	0
Air Force - Active	ERA	Dobbins Air Reserve Base	Georgia	672	0	8	303	0	0	1,000	0	0	0	149	0
Air Force - Active	ERA	Dover AFB	Delaware	1,543	1,348	8	431	0	10	3,062	69	0	11	125	62
Air Force - ANG	ANG	Duluth International Airport	Minnesota	0	0	0	0	0	0	139	0	0	0	1,951	814
Air Force - ANG	ERA	Duluth International Airport	Minnesota	93	0	0	0	0	0	0	0	0	0	0	0
Air Force - Active	ERA	Dyess AFB	Texas	1,186	0	8	405	0	0	0	0	0	0	2,127	0
Air Force - Active	ERA	Eareckson AFS	Alaska	2,090	0	8	303	0	0	2,893	0	0	0	0	0
Air Force - Active	ERA	Edwards AFB	California	1,224	0	8	405	0	0	5,655	0	0	0	3,890	0
Air Force - Active	ERA	Eglin AFB	Florida	1,333	0	8	303	0	0	3,117	0	0	0	136	0
Air Force - Active	ERA	Eielson AFB	Alaska	4,154	14,662	743	47,133	2,876	5,751	5,193	2,735	0	3,297	276	9,887
Air Force - ANG	ANG	Ellington Field	Texas	0	0	0	0	0	0	0	0	0	0	1,951	0
Air Force - ANG	ERA	Ellington Field	Texas	103	0	0	0	0	0	0	0	0	0	0	0
Air Force - Active	ERA	Ellsworth AFB	South Dakota	1,710	3,027	3,223	1,981	0	20,035	10,930	1,873	0	17,589	348	0
Air Force - ANG	ANG	EWVRA Shepherd Field (Martinsburg)	West Virginia	0	0	0	4,916	0	0	0	0	0	0	1,951	10,811
Air Force - ANG	ERA	EWVRA Shepherd Field (Martinsburg)	West Virginia	837	0	0	0	0	0	0	0	0	0	0	0
Air Force - Active	ERA	Fairchild AFB	Washington	1,186	1,157	8	2,335	0	2,259	4,498	1,530	0	2,224	0	38,980
Air Force - Active	ERA	FE Warren AFB	Wyoming	884	0	8	405	0	0	0	0	0	0	723	0
Air Force - ANG	ANG	Forbes Field	Kansas	0	0	0	0	0	0	0	0	0	0	1,951	0

Appendix: Per- and Polyfluoroalkyl Substances Investigation and Cleanup Costs by DoD Installation

DoD Component	Fund Source ¹	Installation Name	State/Territory	Actual Obligations Through FY18 (Investigation ²) (\$000)	Actual Obligations Through FY18 (Cleanup ³) (\$000)	Actual Obligations in FY19 (Investigation ²) (\$000)	Actual Obligations in FY19 (Cleanup ³) (\$000)	Planned Obligations in FY20 (Investigation ²) (\$000)	Planned Obligations in FY20 (Cleanup ³) (\$000)	Actual Obligations in FY20 (Investigation ²) (\$000)	Actual Obligations in FY20 (Cleanup ³) (\$000)	Planned Obligations in FY21 (Investigation ²) (\$000)	Planned Obligations in FY21 (Cleanup ³) (\$000)	Planned Obligations after FY21 (Investigation ²) (\$000)	Planned Obligations after FY21 (Cleanup ³) (\$000)
Air Force - ANG	ERA	Forbes Field	Kansas	125	0	0	0	0	0	0	0	0	0	0	0
Air Force - ANG	ANG	Fort Wayne Municipal	Indiana	0	0	0	0	0	0	0	0	0	0	1,951	0
Air Force - ANG	ERA	Fort Wayne Municipal	Indiana	113	0	0	0	0	0	0	0	0	0	0	0
Air Force - ANG	ANG	Francis S. Gabreski	New York	0	0	0	4,023	0	0	0	0	0	0	1,951	10,811
Air Force - ANG	ERA	Francis S. Gabreski	New York	814	1	0	0	0	0	0	0	0	0	0	0
Air Force - ANG	ANG	Fresno Air Guard	California	0	0	0	0	0	0	179	0	0	0	1,951	814
Air Force - ANG	ERA	Fresno Air Guard	California	212	0	0	0	0	0	0	0	0	0	0	0
Air Force - ANG	ANG	Ft. Smith	Arkansas	0	0	0	0	0	0	0	0	0	0	1,951	0
Air Force - ANG	ERA	Ft. Smith	Arkansas	129	0	0	0	0	0	0	0	0	0	0	0
Air Force - ANG	ANG	General Mitchell	Wisconsin	0	0	0	0	0	0	0	0	0	0	1,951	0
Air Force - ANG	ERA	General Mitchell	Wisconsin	185	0	0	0	0	0	0	0	0	0	0	0
Air Force - Active	ERA	Goodfellow AFB	Texas	1,186	0	8	303	0	0	0	0	0	0	0	0
Air Force - Active	ERA	Grand Forks AFB	North Dakota	738	0	8	405	0	0	0	0	0	0	1,675	0
Air Force - ANG	ANG	Great Falls International Airport	Montana	0	0	0	0	0	0	0	0	0	0	1,951	0
Air Force - ANG	ERA	Great Falls International Airport	Montana	116	0	0	0	0	0	0	0	0	0	0	0
Air Force - ANG	ANG	Greater Peoria	Illinois	0	0	0	0	0	0	1,845	0	0	0	0	0
Air Force - ANG	ERA	Greater Peoria	Illinois	100	0	0	0	0	0	0	0	0	0	0	0
Air Force - Active	ERA	Grissom Air Reserve Base	Indiana	734	0	8	405	0	0	0	0	0	0	585	0
Air Force - ANG	ANG	Gulfport Biloxi	Mississippi	0	0	0	0	0	0	863	0	0	0	1,951	814
Air Force - ANG	ERA	Gulfport Biloxi	Mississippi	123	0	0	0	0	0	0	0	0	0	0	0
Air Force - ANG	ANG	Hancock Field	New York	0	0	0	0	0	0	234	0	0	0	1,951	814
Air Force - ANG	ERA	Hancock Field	New York	105	0	0	0	0	0	0	0	0	0	0	0
Air Force - Active	ERA	Hanscom AFB	Massachusetts	1,701	0	8	303	0	0	0	0	0	0	980	838
Air Force - ANG	ANG	Harrisburg International Airport	Pennsylvania	0	0	0	0	0	0	459	0	0	0	1,951	814
Air Force - ANG	ERA	Harrisburg International Airport	Pennsylvania	53	0	0	0	0	0	0	0	0	0	0	0
Air Force - ANG	ANG	Hector Field	North Dakota	0	0	0	0	0	0	0	0	0	0	1,951	0
Air Force - ANG	ERA	Hector Field	North Dakota	102	0	0	0	0	0	0	0	0	0	0	0
Air Force - Active	ERA	Hill AFB	Utah	889	0	8	405	0	0	5,744	0	0	0	0	0
Air Force - Active	ERA	Holloman AFB	New Mexico	1,186	0	8	0	0	0	0	0	0	0	1,064	0
Air Force - Active	ERA	Homestead Air Reserve Base	Florida	674	0	8	405	0	0	0	0	0	0	1,846	0
Air Force - ANG	ERA	Horsham WILLOW GROVE ANG (EESOH-MIS name)	Pennsylvania	1,603	21,117	1,459	0	261	261	0	0	0	269	0	20,137
Air Force - ANG	ANG	Hulman	Indiana	0	0	0	0	0	0	1,950	0	0	0	0	0
Air Force - ANG	ERA	Hulman	Indiana	137	0	0	0	0	0	0	0	0	0	0	0
Air Force - Active	ERA	Hurlburt Field	Florida	1,186	0	8	303	0	0	0	0	0	0	731	0
Air Force - ANG	ANG	Jackson	Mississippi	0	0	0	0	0	0	161	0	0	0	1,951	814
Air Force - ANG	ERA	Jackson	Mississippi	73	0	0	0	0	0	0	0	0	0	0	0
Air Force - ANG	ANG	Jacksonville	Florida	0	0	0	0	0	0	0	0	0	0	1,951	0
Air Force - ANG	ERA	Jacksonville	Florida	87	0	0	0	0	0	0	0	0	0	0	0
Air Force - ANG	ANG	Joe Foss Field (Sioux Falls)	South Dakota	0	0	0	0	0	0	1,730	0	0	0	0	0
Air Force - ANG	ERA	Joe Foss Field (Sioux Falls)	South Dakota	975	0	0	0	0	0	0	0	0	0	0	0
Air Force - Active	ERA	Joint Base Andrews	Maryland	676	0	15	405	0	0	0	0	0	0	1,280	0
Air Force - Active	ERA	Joint Base Charleston	South Carolina	675	0	8	303	0	0	1,676	0	0	0	1,568	0
Air Force - Active	ERA	Joint Base Elmendorf-Richardson	Alaska	2,101	0	16	0	0	0	4,558	0	0	0	0	0
Air Force - Active	ERA	Joint Base Langley-Eustis	Virginia	1,344	0	16	303	0	0	0	0	0	0	1,596	0
Air Force - Active	ERA	Joint Base McGuire-Dix-Lakehurst	New Jersey	4,384	9,657	8	0	0	0	13,699	0	0	0	846	0

Appendix: Per- and Polyfluoroalkyl Substances Investigation and Cleanup Costs by DoD Installation

DoD Component	Fund Source ¹	Installation Name	State/Territory	Actual Obligations Through FY18 (Investigation ²) (\$000)	Actual Obligations Through FY18 (Cleanup ³) (\$000)	Actual Obligations in FY19 (Investigation ²) (\$000)	Actual Obligations in FY19 (Cleanup ³) (\$000)	Planned Obligations in FY20 (Investigation ²) (\$000)	Planned Obligations in FY20 (Cleanup ³) (\$000)	Actual Obligations in FY20 (Investigation ²) (\$000)	Actual Obligations in FY20 (Cleanup ³) (\$000)	Planned Obligations in FY21 (Investigation ²) (\$000)	Planned Obligations in FY21 (Cleanup ³) (\$000)	Planned Obligations after FY21 (Investigation ²) (\$000)	Planned Obligations after FY21 (Cleanup ³) (\$000)
Air Force - Active	ERA	Joint Base San Antonio - Lackland, Randolph, Ft Sam Houston, Camp Bullis	Texas	2,985	0	24	303	0	0	751	0	0	0	2,430	0
Air Force - Active	ERA	Keesler AFB	Mississippi	1,186	0	8	303	0	0	0	0	0	0	594	0
Air Force - ANG	ANG	Key Field	Mississippi	0	0	0	0	0	0	0	0	0	0	1,951	0
Air Force - ANG	ERA	Key Field	Mississippi	80	0	0	0	0	0	0	0	0	0	0	0
Air Force - Active	ERA	King Salmon	Alaska	1,202	0	8	303	0	0	0	0	0	0	0	0
Air Force - Active	ERA	Kirtland AFB	New Mexico	947	0	8	405	0	0	0	0	0	0	583	0
Air Force - ANG	ANG	Klamath Falls	Oregon	0	0	0	0	0	0	833	0	0	0	1,951	0
Air Force - ANG	ERA	Klamath Falls	Oregon	95	0	0	0	0	0	0	0	0	0	0	0
Air Force - ANG	ANG	Lambert St. Louis	Missouri	0	0	0	0	0	0	0	0	0	0	1,951	0
Air Force - ANG	ERA	Lambert St. Louis	Missouri	78	0	0	0	0	0	0	0	0	0	0	0
Air Force - Active	ERA	Laughlin AFB	Texas	1,186	0	8	0	0	0	0	0	0	0	602	0
Air Force - ANG	ANG	Lincoln Municipal	Nebraska	0	0	0	0	0	0	84	0	0	0	1,951	814
Air Force - ANG	ERA	Lincoln Municipal	Nebraska	113	0	0	0	0	0	0	0	0	0	0	0
Air Force - Active	ERA	Little Rock AFB	Arkansas	1,241	0	8	405	0	0	0	0	0	0	2,044	0
Air Force - Active	ERA	Los Angeles AFB	California	111	0	8	0	0	0	0	0	0	0	0	0
Air Force - Active	ERA	Luke AFB	Arizona	1,186	0	322	812	0	0	8,560	0	0	0	2,484	0
Air Force - Active	ERA	MacDill AFB	Florida	1,186	0	8	303	0	0	0	0	0	0	1,898	0
Air Force - Active	ERA	Malmstrom AFB	Montana	718	0	8	0	0	0	0	0	0	0	607	0
Air Force - ANG	ANG	Mansfield	Ohio	0	0	0	0	0	0	230	0	300	0	1,951	814
Air Force - ANG	ERA	Mansfield	Ohio	105	0	0	0	0	0	0	0	0	0	0	0
Air Force - Active	ERA	March Air Reserve Base	California	1,186	0	8	303	0	0	2,477	0	0	0	400	0
Air Force - ANG	ANG	Martin State	Maryland	0	0	0	0	0	0	0	0	0	0	1,951	0
Air Force - ANG	ERA	Martin State	Maryland	142	0	0	0	0	0	0	0	0	0	0	0
Air Force - Active	ERA	Maxwell-Gunter AFB	Alabama	1,186	0	8	405	0	0	0	0	0	0	1,022	0
Air Force - Active	ERA	McConnell AFB	Kansas	726	0	8	405	0	0	1,342	0	0	0	3,739	0
Air Force - ANG	ANG	McEntire Air Guard	South Carolina	0	0	0	0	0	0	233	0	0	0	1,951	814
Air Force - ANG	ERA	McEntire Air Guard	South Carolina	157	0	0	0	0	0	0	0	0	0	0	0
Air Force - ANG	ANG	McGhee-Tyson	Tennessee	0	0	0	0	0	0	0	0	0	0	1,951	0
Air Force - ANG	ERA	McGhee-Tyson	Tennessee	121	0	0	0	0	0	0	0	0	0	0	0
Air Force - ANG	ANG	Memphis International Airport	Tennessee	0	0	0	0	0	0	174	0	0	0	1,951	814
Air Force - ANG	ERA	Memphis International Airport	Tennessee	74	0	0	0	0	0	0	0	0	0	0	0
Air Force - Active	ERA	Minneapolis-St Paul Air Reserve Station	Minnesota	39	0	8	303	0	0	0	0	0	0	0	0
Air Force - ANG	ANG	Minneapolis-St Paul IAP	Minnesota	0	0	0	0	0	0	0	0	0	0	1,951	0
Air Force - ANG	ERA	Minneapolis-St Paul IAP	Minnesota	108	0	0	0	0	0	0	0	0	0	0	0
Air Force - Active	ERA	Minot AFB	North Dakota	750	0	15	405	0	0	0	0	0	0	2,238	0
Air Force - ANG	ANG	Moffett Field	California	0	0	0	0	0	0	0	0	0	0	1,951	0
Air Force - ANG	ERA	Moffett Field	California	76	0	0	0	0	0	0	0	0	0	0	0
Air Force - ANG	ANG	Montgomery Regional (Dannelly Field) MONTGOMERY ANGB (EESOH-MIS name)	Alabama	0	0	0	0	0	0	0	0	0	0	1,951	0
Air Force - ANG	ERA	Montgomery Regional (Dannelly Field) MONTGOMERY ANGB (EESOH-MIS name)	Alabama	87	0	0	0	0	0	0	0	0	0	0	0
Air Force - Active	ERA	Moody AFB	Georgia	672	0	15	303	0	0	688	0	0	0	0	0
Air Force - ANG	ANG	Morris (Tucson International Airport)	Arizona	0	0	0	0	0	0	0	0	0	0	1,951	0
Air Force - ANG	ERA	Morris (Tucson International Airport)	Arizona	163	0	0	0	0	0	0	0	0	0	0	0
Air Force - Active	ERA	Mountain Home AFB	Idaho	1,786	0	8	405	0	0	2,240	0	0	0	0	0
Air Force - ANG	ANG	Nashville Metro	Tennessee	0	0	0	0	0	0	193	0	0	0	1,951	814
Air Force - ANG	ERA	Nashville Metro	Tennessee	75	0	0	0	0	0	0	0	0	0	0	0

Appendix: Per- and Polyfluoroalkyl Substances Investigation and Cleanup Costs by DoD Installation

DoD Component	Fund Source ¹	Installation Name	State/Territory	Actual Obligations Through FY18 (Investigation ²) (\$000)	Actual Obligations Through FY18 (Cleanup ³) (\$000)	Actual Obligations in FY19 (Investigation ²) (\$000)	Actual Obligations in FY19 (Cleanup ³) (\$000)	Planned Obligations in FY20 (Investigation ²) (\$000)	Planned Obligations in FY20 (Cleanup ³) (\$000)	Actual Obligations in FY20 (Investigation ²) (\$000)	Actual Obligations in FY20 (Cleanup ³) (\$000)	Planned Obligations in FY21 (Investigation ²) (\$000)	Planned Obligations in FY21 (Cleanup ³) (\$000)	Planned Obligations after FY21 (Investigation ²) (\$000)	Planned Obligations after FY21 (Cleanup ³) (\$000)
Air Force - Active	ERA	Nellis AFB	Nevada	947	0	8	303	0	0	5,719	0	0	0	0	0
Air Force - Active	ERA	New Boston Air Force Station	New Hampshire	248	0	8	303	0	0	0	0	0	0	0	0
Air Force - ANG	ANG	New Castle	Delaware	0	0	0	0	0	0	0	0	0	0	1,951	0
Air Force - ANG	ERA	New Castle	Delaware	76	0	0	0	0	0	0	0	0	0	0	0
Air Force - Active	ERA	Niagara Falls Air Reserve Station	New York	681	0	8	405	0	0	0	0	0	0	1,184	0
Air Force - Active	ERA	Offutt AFB	Nebraska	729	0	15	405	0	0	1,900	0	0	0	0	0
Air Force - ANG	ERA	Otis ANG (Joint Base Cape Cod -Massachusetts Military Reservation)	Massachusetts	9,954	1,497	8	0	0	0	0	0	0	0	0	0
Air Force - ANG	ANG	Otis ANG (Joint Base Cape Cod -Massachusetts Military Reservation)	Massachusetts	0	2,851	0	487	0	0	0	0	0	0	0	0
Air Force - Active	ERA	Patrick AFB	Florida	1,335	0	8	405	0	0	0	0	0	0	1,674	0
Air Force - ANG	ERA	Pease	New Hampshire	0	0	0	0	0	0	0	0	0	0	0	0
Air Force - Active	ERA	Peterson AFB	Colorado	2,266	55,419	2,474	9,789	5,625	5,625	7,894	5,426	0	4,230	543	104,782
Air Force - Active	ERA	Pittsburgh Air Reserve Station	Pennsylvania	39	0	8	0	0	0	0	0	0	0	0	0
Air Force - ANG	ANG	Pittsburgh ANGB	Pennsylvania	0	0	0	0	0	0	304	0	0	0	1,951	814
Air Force - ANG	ERA	Pittsburgh ANGB	Pennsylvania	229	0	0	0	0	0	0	0	0	0	0	0
Air Force - ANG	ANG	Portland International Airport PORTLAND (EESOH-MIS name)	Oregon	0	0	0	0	0	0	1,149	0	0	0	0	0
Air Force - ANG	ERA	Portland International Airport PORTLAND (EESOH-MIS name)	Oregon	600	0	0	0	0	0	0	0	0	0	0	0
Air Force - ANG	ANG	Puerto Rico Muniz International Airport LUIS MUNIZ MARIN (EESOH-MIS name)	Puerto Rico	0	0	0	0	0	0	0	0	0	0	1,951	0
Air Force - ANG	ERA	Puerto Rico Muniz International Airport LUIS MUNIZ MARIN (EESOH-MIS name)	Puerto Rico	115	0	0	0	0	0	0	0	0	0	0	0
Air Force - ANG	ANG	Quonset Point State Airport	Rhode Island	0	0	0	0	0	0	0	0	0	0	1,951	0
Air Force - ANG	ERA	Quonset Point State Airport	Rhode Island	53	0	0	0	0	0	0	0	0	0	0	0
Air Force - ANG	ANG	Reno Tahoe	Nevada	0	0	0	0	0	0	0	0	0	0	1,951	0
Air Force - ANG	ERA	Reno Tahoe	Nevada	113	0	0	0	0	0	0	0	0	0	0	0
Air Force - ANG	ANG	Richmond International Airport Byrd Field	Virginia	0	0	0	0	0	0	679	0	0	0	1,951	814
Air Force - ANG	ERA	Richmond International Airport Byrd Field	Virginia	108	0	0	0	0	0	0	0	0	0	0	0
Air Force - ANG	ANG	Rickenbacker	Ohio	0	0	0	0	0	0	0	0	300	0	1,951	814
Air Force - ANG	ERA	Rickenbacker	Ohio	83	0	0	0	0	0	0	0	0	0	0	0
Air Force - Active	ERA	Robins AFB	Georgia	1,493	0	15	303	0	0	0	0	0	0	2,721	0
Air Force - ANG	ANG	Rosecrans Memorial	Missouri	0	0	0	0	0	0	0	0	300	0	1,951	814
Air Force - ANG	ERA	Rosecrans Memorial	Missouri	97	0	0	0	0	0	0	0	0	0	0	0
Air Force - ANG	ANG	Salt Lake City	Utah	0	0	0	0	0	0	177	0	0	0	1,951	814
Air Force - ANG	ERA	Salt Lake City	Utah	110	0	0	0	0	0	0	0	0	0	0	0
Air Force - ANG	ANG	Savannah International Airport	Georgia	0	0	0	0	0	0	215	0	0	0	1,951	814
Air Force - ANG	ERA	Savannah International Airport	Georgia	108	0	0	0	0	0	0	0	0	0	0	0
Air Force - ANG	ANG	Schenectady Airport	New York	0	0	0	0	0	0	239	0	0	0	1,951	814
Air Force - ANG	ERA	Schenectady Airport	New York	115	0	0	0	0	0	0	0	0	0	0	0
Air Force - Active	ERA	Schriever AFB	Colorado	120	0	8	303	0	0	2,862	0	0	0	0	0

Appendix: Per- and Polyfluoroalkyl Substances Investigation and Cleanup Costs by DoD Installation

DoD Component	Fund Source ¹	Installation Name	State/Territory	Actual Obligations Through FY18 (Investigation ²) (\$000)	Actual Obligations Through FY18 (Cleanup ³) (\$000)	Actual Obligations in FY19 (Investigation ²) (\$000)	Actual Obligations in FY19 (Cleanup ³) (\$000)	Planned Obligations in FY20 (Investigation ²) (\$000)	Planned Obligations in FY20 (Cleanup ³) (\$000)	Actual Obligations in FY20 (Investigation ²) (\$000)	Actual Obligations in FY20 (Cleanup ³) (\$000)	Planned Obligations in FY21 (Investigation ²) (\$000)	Planned Obligations in FY21 (Cleanup ³) (\$000)	Planned Obligations after FY21 (Investigation ²) (\$000)	Planned Obligations after FY21 (Cleanup ³) (\$000)
Air Force - Active	ERA	Scott AFB	Illinois	723	0	8	405	0	0	0	0	0	0	609	0
Air Force - ANG	ANG	Selfridge	Michigan	0	0	0	0	0	0	0	0	0	0	1,951	0
Air Force - ANG	ERA	Selfridge	Michigan	220	0	0	0	0	0	0	0	0	0	0	0
Air Force - Active	ERA	Seymour Johnson AFB	North Carolina	674	0	8	303	0	0	0	0	0	0	0	0
Air Force - Active	ERA	Shaw AFB	South Carolina	1,537	0	8	3,262	0	0	2,790	0	0	0	0	0
Air Force - Active	ERA	Sheppard AFB	Texas	1,186	0	8	303	0	0	0	0	0	0	770	0
Air Force - ANG	ANG	Sioux Gateway (Sioux City) SIOUX CTY APT ANG (EESOH-MIS name)	Iowa	0	0	0	0	0	0	0	0	0	0	1,951	0
Air Force - ANG	ERA	Sioux Gateway (Sioux City) SIOUX CTY APT ANG (EESOH-MIS name)	Iowa	102	0	0	0	0	0	0	0	0	0	0	0
Air Force - ANG	ANG	Sky Harbor International Airport	Arizona	0	0	0	0	0	0	0	0	0	0	1,951	0
Air Force - ANG	ERA	Sky Harbor International Airport	Arizona	171	0	0	0	0	0	0	0	0	0	0	0
Air Force - ANG	ERA	Springfield Municipal (Capital)	Illinois	80	0	0	0	0	0	0	0	0	0	0	0
Air Force - ANG	ANG	Springfield Municipal (Capital)	Illinois	0	0	0	0	0	1,542	0	0	0	0	0	0
Air Force - ANG	ANG	Springfield-Beckley Municipal	Ohio	0	0	0	0	0	0	0	0	0	0	1,951	0
Air Force - ANG	ERA	Springfield-Beckley Municipal	Ohio	107	0	0	0	0	0	0	0	0	0	0	0
Air Force - ANG	ANG	Standiford Field Air National Guard	Kentucky	0	0	0	0	0	0	0	0	0	0	1,951	0
Air Force - ANG	ERA	Standiford Field Air National Guard	Kentucky	92	0	0	0	0	0	0	0	0	0	0	0
Air Force - ANG	ANG	Stanly/Badin County Airport Air National Guard Base	North Carolina	0	0	0	0	0	0	0	0	0	0	1,951	0
Air Force - ANG	ERA	Stanly/Badin County Airport Air National Guard Base	North Carolina	53	0	0	0	0	0	0	0	0	0	0	0
Air Force - ANG	ANG	Stewart International Airport	New York	0	0	0	2,809	0	0	0	0	0	0	1,951	0
Air Force - ANG	ERA	Stewart International Airport	New York	1,075	0	0	0	0	0	0	0	0	0	0	0
Air Force - Active	ERA	Tinker AFB	Oklahoma	1,095	0	8	303	0	0	0	0	0	0	714	0
Air Force - ANG	ANG	Toledo Express	Ohio	0	0	0	0	0	2,233	0	0	0	0	0	0
Air Force - ANG	ERA	Toledo Express	Ohio	109	1	0	0	0	0	0	0	0	0	0	0
Air Force - Active	ERA	Travis AFB	California	1,095	0	319	405	0	0	4,607	0	0	0	145	0
Air Force - ANG	ANG	Truax Field	Wisconsin	0	0	0	0	0	1,147	0	0	0	0	0	814
Air Force - ANG	ERA	Truax Field	Wisconsin	139	0	0	0	0	0	0	0	0	0	0	0
Air Force - ANG	ANG	Tulsa International Airport	Oklahoma	0	0	0	0	0	0	0	0	300	0	1,951	814
Air Force - ANG	ERA	Tulsa International Airport	Oklahoma	98	0	0	0	0	0	0	0	0	0	0	0
Air Force - Active	ERA	Tyndall AFB	Florida	674	0	8	0	0	0	0	0	0	0	2,119	0
Air Force - Active	ERA	USAF Academy	Colorado	120	0	852	405	0	737	0	0	0	40	2,729	3,283
Air Force - Active	ERA	Vance AFB/Kegelman	Oklahoma	1,186	0	8	405	0	0	0	0	0	0	485	0
Air Force - Active	ERA	Vandenberg AFB	California	1,186	0	8	0	0	0	0	0	0	0	0	0
Air Force - ANG	ANG	Volk Field	Wisconsin	0	0	0	0	0	1,354	0	0	0	0	0	0
Air Force - ANG	ERA	Volk Field	Wisconsin	220	0	0	0	0	0	0	0	0	0	0	0
Air Force - Active	ERA	Wake Island	Wake Island	1,994	0	8	0	0	0	0	0	0	0	0	0
Air Force - Active	ERA	Westover Air Reserve Base	Massachusetts	673	0	8	303	0	0	0	0	0	0	899	0
Air Force - Active	ERA	Whiteman AFB	Missouri	722	0	8	0	0	0	0	0	0	0	795	0
Air Force - ANG	ANG	Will Rogers International Airport	Oklahoma	0	0	0	0	0	254	0	0	0	0	1,951	814
Air Force - ANG	ERA	Will Rogers International Airport	Oklahoma	101	0	0	0	0	0	0	0	0	0	0	0
Air Force - ANG	ANG	WK Kellogg	Michigan	0	0	0	0	0	2,512	0	0	0	0	0	0
Air Force - ANG	ERA	WK Kellogg	Michigan	122	0	0	0	0	0	0	0	0	0	0	0
Air Force - Active	ERA	Wright Patterson AFB	Ohio	1,992	5,446	164	0	0	0	4,211	0	0	0	107	0
Air Force - ANG	ANG	Yeager (McLaughlin)	West Virginia	0	0	0	0	0	0	0	0	0	0	1,951	0

Appendix: Per- and Polyfluoroalkyl Substances Investigation and Cleanup Costs by DoD Installation

DoD Component	Fund Source ¹	Installation Name	State/Territory	Actual Obligations Through FY18 (Investigation ²) (\$000)	Actual Obligations Through FY18 (Cleanup ³) (\$000)	Actual Obligations in FY19 (Investigation ²) (\$000)	Actual Obligations in FY19 (Cleanup ³) (\$000)	Planned Obligations in FY20 (Investigation ²) (\$000)	Planned Obligations in FY20 (Cleanup ³) (\$000)	Actual Obligations in FY20 (Investigation ²) (\$000)	Actual Obligations in FY20 (Cleanup ³) (\$000)	Planned Obligations in FY21 (Investigation ²) (\$000)	Planned Obligations in FY21 (Cleanup ³) (\$000)	Planned Obligations after FY21 (Investigation ²) (\$000)	Planned Obligations after FY21 (Cleanup ³) (\$000)
Air Force - ANG	ERA	Yeager (McLaughlin)	West Virginia	119	0	0	0	0	0	0	0	0	0	0	0
Air Force - Active	ERA	Youngstown Air Reserve Station	Ohio	703	0	8	303	0	0	0	0	0	0	0	0
Air Force - Active	ERA	N/A - Program Management ⁴	N/A	0	0	0	0	0	0	1,829	12,849	0	9,149	0	58,732
Air Force - ANG	ANG	N/A - Program Management ⁴	N/A	0	0	0	0	0	0	4,589	0	0	0	0	0
Air Force Subtotals:				121,651	116,560	10,279	103,121	8,762	34,679	165,552	24,483	1,500	37,091	201,128	293,709
DLA - Active	ERA	Defense Distribution Center Susquehanna	Pennsylvania	0	0	0	0	51	0	25	0	0	0	0	0
DLA - Active	ERA	Defense Supply Center Richmond	Virginia	0	42	0	0	0	0	0	0	0	0	0	0
DLA - Active	ERA	DFSP Newington	New Hampshire	0	0	137	0	0	0	23	0	0	0	0	0
DLA - Active	ERA	DFSP Norwalk	California	0	0	87	0	0	0	0	0	0	0	0	0
DLA - Active	ERA	DFSP Ozol	California	0	0	68	0	0	0	0	0	200	0	0	0
DLA - Active	ERA	DFSP San Pedro	California	0	0	100	0	0	0	0	0	200	0	0	0
DLA - Active	ERA	DFSP Verona	New York	67	0	0	477	0	0	560	0	0	0	0	0
DLA Subtotals:				67	42	392	477	51	0	608	0	400	0	0	0
FUDS	ERA	KINCHELOE AIR FORCE BASE	Michigan	0	0	0	0	0	0	0	0	75	0	0	0
FUDS	ERA	MANCHESTER ANNEX	Washington	0	0	0	0	0	0	244	0	65	0	10	0
FUDS	ERA	NAVAL AUX LANDING FIELD	Rhode Island	0	0	0	0	0	0	0	0	90	0	0	0
FUDS Subtotals:				0	0	0	0	0	0	244	0	230	0	10	0
DoD Totals:				204,538	124,286	51,914	120,787	70,839	40,646	242,534	28,257	56,432	39,938	442,819	318,140

Footnotes:

- "ERA" applies to funding for investigating and cleaning up releases of per- and polyfluoroalkyl substances (PFAS) caused by past DoD activities at Environmental Restoration Account (ERA)-funded sites; and funding to address perfluorooctane sulfonate (PFOS) and perfluorooctanoic acid (PFOA) at Army and Air National Guard facilities. "OMNG" and "ANG" apply to funding for investigating and cleaning up PFAS caused by National Guard activities at Army National Guard (OMNG) and Air National Guard (ANG) Operation & Maintenance-funded sites. Installations shaded gray are listed twice because there are multiple fund sources. This table does not include Base Realignment and Closure funding.
- Investigation costs include but are not limited to site investigation work (e.g., preliminary assessments, site inspections, remedial investigations) and monitoring.
- Cleanup costs include but are not limited to site restoration; remedial action (e.g., supplying bottled water, installing granular activated carbon filters).
- These funds are for investigations of known or suspected PFAS releases at multiple installations.
- The Navy plans, programs, budgets, and executes the Defense Environmental Restoration Program for the U.S. Marine Corps.