

Supplemental Programmatic Environmental Assessment for Army 2020 Force Structure Realignment



June 2014



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1 **4.30 Summary of Potential Environmental Impacts**

2 Implementation of the Proposed Action would result in impacts to the natural, cultural, and
3 socioeconomic environment at each of the 30 locations evaluated.

4 Table 4.30-1 summarizes the intensity of impacts to a variety of VECs that are anticipated under
5 the No Action Alternative. The majority of potential impacts would be negligible to minor, with
6 some less than significant impacts. Significant but mitigable impacts are anticipated to occur at:
7 Fort Bliss for traffic and transportation; Fort Bragg for soils and transportation; Fort Gordon for
8 land use; Fort Sill for noise; Fort Wainwright for cultural resources; Joint Base Elmendorf-
9 Richardson for cultural and biological resources; Joint Base Lewis-McChord for water resources;
10 and USAG Hawaii for cultural resources, noise, and soils. Significant impacts are anticipated
11 under the No Action Alternative at Joint Base Lewis-McChord for airspace, noise
12 and transportation.

13 Table 4.30-2 summarizes the intensity of impacts to VECs that are anticipated as part of the
14 implementation of Alternative 1. The majority of potential impacts anticipated to VECs would
15 either be beneficial or negligible to minor and adverse with a few less than significant impacts.
16 Significant but mitigable impacts are anticipated to occur at Fort Wainwright, Joint Base
17 Elmendorf-Richardson, and USAG Hawaii for cultural resources. Significant socioeconomic
18 impacts are anticipated at: Aberdeen Proving Ground, Fort Benning, Fort Bliss, Fort Bragg, Fort
19 Campbell, Fort Carson, Fort Drum, Fort Gordon, Fort Hood, Fort Huachuca, Fort Jackson, Fort
20 Knox, Fort Leavenworth, Fort Lee, Fort Leonard Wood, Fort Polk, Fort Riley, Fort Rucker, Fort
21 Sill, Fort Stewart, Fort Wainwright, Joint Base Elmendorf-Richardson, Joint Base Langley-
22 Eustis, Joint Base Lewis-McChord, and USAG Hawaii. Socioeconomic resources are comprised
23 of a number of components such as population and demographics, employment and income,
24 housing, schools, Family Support Services, and recreation. Not all of these socioeconomic
25 components would be significantly impacted by Alternative 1. Table 4.30-3 summarizes
26 population and economic impacts and also provides the impacts relative to ROI baseline
27 conditions. Table 4.30-4 provides an impact rating for a number of socioeconomic components,
28 including sales, income, employment, and population.

29 No specific mitigation measures are required to reduce any impacts discussed within the VEC
30 environmental effects sections of each of the 30 locations to less than significant. The Army is
31 committed to implementing required environmental compliance and meeting health and safety
32 requirements as it is not reasonable to have cuts result in the elimination of environmental,
33 safety, and health programs on our installations. These commitments would ensure no significant
34 impacts, other than socioeconomics impacts under the Proposed Action.

35 Some locations, such as the Joint Bases discussed in the SPEA and installations that have major
36 tenants from other service branches, may have personnel reductions in response to other
37 initiatives which are outside the scope of the SPEA. When combined with the Army reductions

1 described in Alternative 1, these actions could affect the cumulative impacts. As of May 2014,
2 however, the other services did not provide any specific projections that would allow the Army
3 to quantify or describe these cumulative impacts. Consequently, this SPEA analysis may assist
4 the other services in analyzing cumulative impacts of their proposed actions.

1 **Table 4.30-1. Potential Environmental Impacts of the No Action Alternative**

Valued Environmental Component	Resource Area													
	Air Quality	Airspace	Cultural Resources	Noise	Soils	Biological Resources	Wetlands	Water Resources	Facilities	Socio-economics	Energy Demand and Generation	Land Use Conflicts and Compatibility	Hazardous Materials and Hazardous Waste	Traffic and Transportation
Aberdeen Proving Ground	M	N	M	M	M	M	M	M	N	B	M	M	M	M
Fort Belvoir	M	N	N	N	M	N	N	M	N	B	M	M	M	LS
Fort Benning	M	M	M	LS	LS	LS	LS	LS	M	B	M	LS	M	M
Fort Bliss	M	M	N	N	M	N	N	M	N	B	N	M	M	SM
Fort Bragg	M	M	N	M	SM	N	M	N	N	B	M	N	N	SM
Fort Campbell	M	N	N	N	M	N	N	M	N	B	N	N	N	N
Fort Carson	LS	N	N	N	LS	N	M	M	M	B	N	N	M	LS
Fort Drum	M	N	M	N	N	M	M	N	N	B	M	N	N	M
Fort Gordon	M	N	N	N	N	N	N	N	LS	B	N	SM	N	N
Fort Hood	M	N	N	N	M	M	N	M	N	B	N	N	N	N
Fort Huachuca	M	N	M	M	M	M	M	M	N	B	M	M	M	N
Fort Irwin	M	N	M	N	M	M	N	LS	M	B	N	M	M	M
Fort Jackson	M	N	N	N	M	M	M	M	N	B	M	M	M	N
Fort Knox	M	N	N	N	M	N	N	M	N	B	N	N	N	N
Fort Leavenworth	M	N	M	N	M	M	N	M	N	B	M	N	M	M
Fort Lee	M	N	M	N	N	N	N	N	N	B	N	N	N	N
Fort Leonard Wood	M	N	N	N	N	N	N	N	N	B	N	N	N	N
Fort Meade	M	N	N	N	N	N	N	N	N	B	M	N	M	M
Fort Polk	N	N	N	N	M	N	N	N	N	B	N	N	N	N
Fort Riley	M	N	N	N	M	N	N	M	N	B	N	N	N	N
Fort Rucker	M	N	N	LS	M	N	M	M	N	B	M	LS	M	LS
Fort Sill	M	N	N	SM	N	N	N	N	N	B	N	N	N	M
Fort Stewart	M	N	N	N	M	N	M	M	N	B	N	N	N	M
Fort Wainwright	M	M	SM	M	M	M	M	M	N	B	N	N	N	M
Joint Base Elmendorf-Richardson	LS	N	SM	M	LS	SM	LS	M	M	B	M	M	LS	LS
Joint Base Langley-Eustis	M	N	M	N	N	M	M	N	M	B	M	N	M	LS
Joint Base Lewis-McChord	LS	S	LS	S	N	LS	N	LS	LS	B	N	M	M	S
Joint Base San Antonio-Fort Sam Houston	M	N	M	N	M	N	M	M	N	B	M	N	M	N
USAG Hawaii—Schofield Barracks and Fort Shafter	N-M	M	M-SM	LS-SM	N-SM	N-SM	M	M	N-M	B	N	N	M	N

2 Notes: B – beneficial, N – negligible/no impact, M – minor, LS – less than significant, SM – significant but mitigable, S – significant

1 **Table 4.30-2. Potential Environmental Impacts of Alternative 1—Implement Force Reductions**

Valued Environmental Component	Resource Area													
	Air Quality	Airspace	Cultural Resources	Noise	Soils	Biological Resources	Wetlands	Water Resources	Facilities	Socio-economics	Energy Demand and Generation	Land Use Conflicts and Compatibility	Hazardous Materials and Hazardous Waste	Traffic and Transportation
Aberdeen Proving Ground	B	N	M	M	B	B	B	B	M	S	B	M	M	B
Fort Belvoir	B	B	M	N	B	B	B	B	M	LS	B	N	M	B
Fort Benning	B	N	M	M	B	B	N	M	M	S	B	M	B	B
Fort Bliss	B	M	M	B	B	B	B	B	M	S	B	M	M	B
Fort Bragg	B	M	M	B	B	B	B	B	M	S	B	N	M	B
Fort Campbell	B	N	N	B	B	N	N	B	M	S	B	N	N	B
Fort Carson	B	B	B	B	B	B	B	B	M	S	B	N	B	B
Fort Drum	B	N	M	N	B	M	B	N	M	S	B	N	N	B
Fort Gordon	B	N	N	B	N	N	N	N	M	S	B	B	N	B
Fort Hood	B	B	M	B	B	B	N	B	M	S	B	N	N	B
Fort Huachuca	B	B	M	B	B	B	B	M	M	S	B	M	M	B
Fort Irwin	B	B	B	B	B	B	N	B	M	LS	B	M	M	M
Fort Jackson	B	B	N	B	B	B	B	B	M	S	B	B	M	B
Fort Knox	B	N	M	B	B	N	N	B	M	S	B	N	M	B
Fort Leavenworth	B	N	M	B	B	B	B	B	M	S	B	N	M	B
Fort Lee	B	N	M	B	N	N	N	N	M	S	B	B	M	B
Fort Leonard Wood	B	N	M	N	N	N	N	N	M	S	B	N	M	B
Fort Meade	B	N	N	N	N	N	N	N	M	LS	B	N	M	B
Fort Polk	B	N	N	N	N	N	B	B	M	S	B	N	M	B
Fort Riley	B	N	M	B	N	B	N	B	M	S	B	N	M	B
Fort Rucker	B	N	N	B	B	B	B	B	M	S	B	B	M	B
Fort Sill	B	N	M	B	N	N	N	B	M	S	B	B	LS	B
Fort Stewart	B	N	M	B	N	B	B	B	M	S	B	B	M	B
Fort Wainwright	B	B	SM	B	N	M	M	M	M	S	B	B	N	B
Joint Base Elmendorf-Richardson	B	B	SM	B	M	M	B	B	M	S	B	M	LS	B
Joint Base Langley-Eustis	B	N	M	B	B	M	B	N	M	S	B	N	M	B
Joint Base Lewis-McChord	B	N	M	B	N	B	N	B	M	S	B	B	LS	B
Joint Base San Antonio-Fort Sam Houston	B	N	M	B	B	B	B	B	M	LS	B	N	M	B
USAG Hawaii—Schofield Barracks and Fort Shafter	B	B	M-SM	B	B	B	M-B	M-B	M	S	B	B	M	B

2 Notes: B – beneficial, N – negligible/no impact, M – minor, LS – less than significant, SM – significant but mitigable, S – significant

1 **Table 4.30-3. Summary of Population and Economic Impacts**

Installation	Fiscal Year of the Baseline Population	Potential Population Loss Analyzed in the SPEA	Baseline Permanent Party Soldier and Army Civilian Population	Population Reduction	Percent of 2012 ROI Population	Employment Reduction	Percent of 2012 ROI Labor Force	Income Reduction	Percent of 2012 ROI Income
Aberdeen Proving Ground	2013	4,272	12,335	10,757	0.9	7,321	1.2	\$382.4M	0.6
Fort Belvoir	2013	4,565	9,721	11,495	0.9	6,479	0.5	\$358.2M	0.2
Fort Benning	2011	10,767	17,501	27,111	5.9	13,859	7.0	\$627.0M	3.7
Fort Bliss	2011	16,000	31,380	40,288	3.6	20,864	4.7	\$925.6M	2.8
Fort Bragg	2011	16,000	52,975	40,288	6.9	21,563	8.6	\$968.6M	4.1
Fort Campbell	2011	16,000	32,281	40,288	14.0	19,605	16.2	\$863.3M	7.7
Fort Carson	2011	16,000	25,702	40,288	4.7	21,331	5.6	\$969.5M	2.1
Fort Drum	2011	16,000	19,011	40,288	33.3	19,102	35.2	\$877.5M	16.5
Fort Gordon	2011	4,683	8,142	11,792	3.1	6,243	3.9	\$282.6M	2.1
Fort Hood	2011	16,000	47,190	40,288	9.6	18,915	10.3	\$870.2M	5.2
Fort Huachuca	2013	2,739	5,841	6,897	5.2	3,820	8.1	\$193.5M	4.1
Fort Irwin	2011	3,524	5,539	8,873	0.4	4,545	0.6	\$210.7M	0.3
Fort Jackson	2013	3,071	5,735	7,733	0.9	4,242	1.0	\$189.4M	0.6
Fort Knox	2011	7,605	13,127	19,149	14.0	9,650	16.0	\$431.2M	8.1
Fort Leavenworth	2013	2,524	5,004	6,355	8.1	3,213	9.4	\$154.2M	5.4
Fort Lee	2011	3,538	6,474	8,909	1.9	4,914	2.3	\$242.9M	1.2
Fort Leonard Wood	2011	5,317	9,161	13,388	5.6	6,857	6.5	\$299.8M	3.8
Fort Meade	2013	3,500	6,638	8,813	0.5	5,150	0.4	\$247.8M	0.2
Fort Polk	2011	6,500	10,836	16,367	5.7	8,425	7.2	\$369.4M	3.4
Fort Riley	2011	16,000	19,995	40,288	28.2	19,633	27.9	\$865.1M	14.4
Fort Rucker	2013	2,490	4,957	6,270	3.1	3,389	3.8	\$157.0M	2.1
Fort Sill	2011	6,842	11,337	17,228	13.6	8,482	14.4	\$374.0M	8.0
Fort Stewart	2011	16,000	18,647	40,288	26.9	18,938	30.4	\$853.9M	18.5
Fort Wainwright	2011	5,811	7,430	14,633	14.6	7,399	14.3	\$413.5M	9.1
Joint Base Elmendorf-Richardson	2011	5,333	6,861	13,428	4.5	6,936	4.4	\$355.1M	2.2
Joint Base Langley-Eustis	2011	4,163	7,382	10,482	2.0	5,776	2.3	\$283.4M	1.3
Joint Base Lewis-McChord	2011	16,000	36,222	40,288	3.8	21,344	4.3	\$971.6M	2.1
Joint Base San Antonio	2013	5,934	12,256	14,942	0.7	8,485	0.9	\$392.7M	0.5
USAG Hawaii—Schofield Barracks and Fort Shafter	2013	19,786	25,871	49,821	5.1	26,776	4.3	\$1.35B	1.2

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1 **Table 4.30-4. Potential Socioeconomic Impacts—Implement Force Reductions**

Installation	Sales	Income	Employment	Population
Aberdeen Proving Ground	LS	LS	LS	S
Fort Belvoir	LS	LS	LS	LS
Fort Benning	LS	LS	LS	S
Fort Bliss	LS	LS	S	S
Fort Bragg	LS	LS	S	S
Fort Campbell	LS	LS	S	S
Fort Carson	LS	LS	S	S
Fort Drum	S	S	S	S
Fort Gordon	LS	LS	LS	S
Fort Hood	LS	LS	S	S
Fort Huachuca	LS	LS	S	S
Fort Irwin	LS	LS	LS	LS
Fort Jackson	LS	LS	LS	S
Fort Knox	LS	S	S	S
Fort Leavenworth	S	S	S	S
Fort Lee	LS	LS	LS	S
Fort Leonard Wood	LS	S	S	S
Fort Meade	LS	LS	LS	LS
Fort Polk	LS	S	S	S
Fort Riley	S	S	S	S
Fort Rucker	LS	LS	LS	S
Fort Sill	S	S	S	S
Fort Stewart	S	S	S	S
Fort Wainwright	LS	LS	S	S
Joint Base Elmendorf-Richardson	LS	LS	S	S
Joint Base Langley-Eustis	LS	LS	S	S
Joint Base Lewis-McChord	LS	LS	LS	S
Joint Base San Antonio-Fort Sam Houston	LS	LS	LS	LS
USAG Hawaii—Schofield Barracks and Fort Shafter	LS	LS	S	S

2 Notes: LS – less than significant, S – significant

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1 **4.31 Conclusion**

2 The SPEA's analysis of the impacts associated with the implementation of the Proposed Action
3 has not identified any significant environmental impacts, other than socioeconomic impacts, for
4 the only action alternative analyzed, Alternative 1—Implement Force Reductions. As discussed in
5 Section 4.30, impacts include effects to air quality, airspace, cultural resources, noise, soils,
6 biological resources, wetlands, water resources, facilities, socioeconomics, energy demand and
7 generation, land use, hazardous materials and hazardous waste, and traffic and transportation.
8 The Army is committed to implementing required environmental compliance and meeting health
9 and safety requirements as it is not reasonable to have cuts result in the elimination of
10 environmental, safety, and health programs on our installations. These commitments would
11 ensure no significant impacts, other than socioeconomics impacts, under the Proposed Action.
12 The SPEA identifies some significant socioeconomic impacts, but these by themselves do not
13 require preparation of an EIS. Under Alternative 1, no specific mitigation measures are needed to
14 reduce the anticipated impacts to less than significant. Therefore, an EIS is not required, and a
15 draft FNSI has been prepared. A Notice of Availability of the SPEA and draft FNSI has been
16 published in the *Federal Register* and *USA Today*. Local announcements in the vicinities of the
17 30 locations analyzed in the SPEA will also be made, inviting the public and all interested parties
18 to provide comment during the 60-day review period.

19 **4.32 Cumulative Effects**

20 **4.32.1 Nationwide Cumulative Impact**

21 In addition to the cumulative impacts discussed under each installation section, there are some
22 resources for which the Army 2020 action as a whole could have a nationwide cumulative effect.
23 Those resources are discussed in this section.

24 **4.32.1.1 Greenhouse Gases and Climate Change**

25 There is broad scientific consensus that humans are changing the chemical composition of
26 Earth's atmosphere. Activities such as fossil fuel combustion, deforestation, and other changes in
27 land use are resulting in the accumulation of GHGs, such as CO₂, in our atmosphere. The
28 increase in GHG emissions correlates to an increase in the average temperature of the Earth's
29 atmosphere and oceans, which is commonly referred to as "global warming." Some of the rise in
30 temperature is due to natural forces (including solar and volcanic activity). The 2014 National
31 Climate Assessment (Melillo et al., 2014) determined that only with the inclusion of human
32 influences can models reproduce the observed temperature changes. The Assessment says that
33 the global warming of the past 50 years is primarily due to human activities. The Assessment
34 then states:

35 Lower emissions of heat-trapping gases and particles mean less future warming
36 and less-severe impacts; higher emissions mean more warming and more severe
37 impacts. Efforts to limit emissions or increase carbon uptake fall into a category

1 of response options known as mitigation,” which refers to reducing the amount
2 and speed of future climate change by reducing emissions of heat-trapping gases
3 or removing carbon dioxide from the atmosphere.

4 Global warming is expected, in turn, to affect weather patterns, average sea level, ocean
5 acidification, chemical reaction rates, and precipitation rates, which is commonly referred to as
6 climate change. U.S. average temperature has increased by 1.3 degrees Fahrenheit (°F) to 1.9°F
7 since record keeping began in 1895 and is projected to lead to more than 8°F warming by 2100,
8 with a high-end possibility of more than 11°F (Melillo et al., 2014). Large increases in global
9 temperatures could have considerable adverse impacts to natural and human environments.

10 GHGs include water vapor, CO₂, methane, nitrous oxide, O₃, and several hydrocarbons and
11 chlorofluorocarbons. Water vapor is a naturally occurring GHG and accounts for the largest
12 percentage of the greenhouse effect. Next to water vapor, CO₂ is the second-most abundant
13 GHG. Uncontrolled CO₂ emissions from power plants, heating sources, and mobile sources are a
14 function of the power rating of each source, the fuel consumed, and the source’s net efficiency at
15 converting the energy in the feedstock into other useful forms of energy (e.g., electricity, heat,
16 and kinetic). Because CO₂ and the other GHGs are relatively stable in the atmosphere and
17 essentially uniformly mixed throughout the troposphere and stratosphere, the climatic impact of
18 these emissions does not depend upon the source location on the earth (i.e., regional climatic
19 impacts/changes will be a function of global emissions).

20 Army installations produce GHGs through vehicle use, heating and cooling of buildings,
21 electricity generation, munitions explosions, and other activities. In Alternative 1, the Army
22 would reduce its Soldier strength an additional 70,000 from the 2012 strength of 562,000 to
23 420,000. It would also reduce employment of civilians and contractor personnel. This reduction
24 would occur over a number of years and its effects would be felt at installations all over the
25 country. It would mean that there would be a net reduction of vehicle engine use, of munitions
26 use, and of energy consumption on each installation. However, the personnel would continue to
27 operate their personal vehicles. People who would have been in the Army in 2020, for instance,
28 would likely continue to live in the U.S. and would continue to be engaged in activities that
29 result in GHG emissions such as commuting to and from locations other than Army installations.
30 Under the No Action Alternative, GHG emissions would likely be marginally higher than if the
31 Army implements Alternative 1, from the continued operation of the larger Army vehicles and
32 equipment used by its Soldiers. That total difference would be hard to quantify, however, and
33 would likely not be noticeable on the larger national scale. In the final analysis, the net effect of
34 the Army 2020 transformation would be very small compared to the Nation’s overall GHG
35 emissions and would have no significant cumulative effect on climate change.

4.32.1.2 Cumulative Economic Effects

The loss of approximately 70,000 Soldier jobs and additional Army civilian positions (in addition to the 72,000 similar positions addressed in the 2013 PEA) would have a cumulative economic effect. It is important to remember that the Soldiers in these units would not all be suddenly discharged from the Army when their units are inactivated. Some would leave the Army through the normal course of events, to include retirement. In addition, the Army would also use involuntary separation programs and policies to reduce the size of the force. The Army would also take in fewer new Soldiers. These changes would occur over a period of several years. There would not be a flood of Soldiers and Army civilians entering the job market. Finally, some people would leave the Army and go into retirement and not seek employment in the civilian job market.

Nevertheless, by 2020 there would be 70,000 additional people in the U.S. who otherwise might be employed as Soldiers in the Army, as well as people who otherwise might be Army civilian or contractor employees. These people would be competing in the job market and could mean that the people with whom they compete have lower paying jobs or no job at all. Of course, by the same token, some of the military employees could become entrepreneurs and create businesses that create jobs.

As of 2012, approximately 144,000,000 people were employed in non-farm jobs in the U.S. The reduction of the 70,000 Soldiers represents about 0.05 percent of this total. Taking the consideration of the reduction of the 72,000 Soldiers assessed in the 2013 PEA for a total reduction of 142,000, it represents about 0.1 percent of this total. For this reason alone, the effect would not be significant. In addition, the negative effect on nationwide employment would be offset as people with discipline and skills developed in the military enter the job force and are productively employed.

There are some states with more than one installation that have the potential for substantial losses that have been included in this analysis. These are Alaska (Fort Wainwright and Joint Base Elmendorf-Richardson), Georgia (Fort Stewart, Fort Benning, and Fort Gordon), Kansas (Fort Leavenworth and Fort Riley), Kentucky (Fort Knox and part of Fort Campbell), Maryland (Aberdeen Proving Ground and Fort Meade), Texas (Fort Bliss, Joint Base San Antonio [Fort Sam Houston], and Fort Hood), and Virginia (Fort Belvoir, Fort Lee, and Joint Base Langley-Eustis). In these states, the economic impacts of the loss of employment in the individual ROIs could combine to produce a greater impact statewide. In Georgia, for instance, all three installations could see significant economic impacts, and these could have a cumulative effect on the overall state economy. Forts Stewart and Gordon are close enough that the economic impacts could combine to produce a cumulatively greater regional effect. Both of these sites already could have significant local economic difficulties; the cumulative effect could add to that already-significant impact. Fort Benning is far enough away, however, so that this would not add to that impact. It is, however, in close proximity to Fort Rucker, Alabama where a cumulative

1 effect could occur. In Maryland, Aberdeen Proving Ground and Fort Meade are close enough to
2 Fort Belvoir, Virginia, that there could be a cumulative effect on the immediate region. Joint
3 Base Langley-Eustis and Fort Lee are close enough that their impacts could combine to produce
4 adverse cumulative impacts. It is possible that this could mean that Fort Lee's less than
5 significant impacts could be amplified by force reductions at Joint Base Langley-Eustis to some
6 extent, though the ROIs of the installations do not overlap. The installations in Alaska, Kansas,
7 Kentucky, and Texas are also distant enough from each other that a regional cumulative effect is
8 not expected.

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5.0 ACRONYMS

Acronym	Definition
AAF	Army Airfield
ABCT	Armored Brigade Combat Team
ACP	Access Control Points
ACS	Army Community Service
ACUB	Army Compatible Use Buffer
AFB	Air Force Base
AHP	Army Heliport
AIT	Advanced Individual Training
APZ	Accident Potential Zones
AQCR	Air Quality Control Region
Army or U.S. Army	United States Department of the Army
ARNG	Army National Guard
AST	aboveground storage tank
BAMC	Brooke Army Medical Center
BCT	Brigade Combat Team
BMP	best management practice
BRAC	Base Realignment and Closure
CASCOM	Combined Arms Support Command
CEQ	Council on Environmental Quality
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CFR	Code of Federal Regulations
CO	carbon monoxide
CO ₂	carbon dioxide
CYSS	Child, Youth, and School Services
dB	decibel
dBA	A-weighted decibel
DEQ	Department of Environmental Quality
DES	Directorate of Emergency Services
DoD	Department of Defense
DPW	Directorate of Public Works
EA	environmental assessment
EIFS	Economic Impact Forecast System

Acronym	Definition
EIS	Environmental Impact Statement
E.O.	Executive Order
EPA	Environmental Protection Agency
ESA	Endangered Species Act
ESMP	Endangered Species Management Plan
°F	degrees Fahrenheit
FAA	Federal Aviation Administration
FBNA	Fort Belvoir North Area
FEMA	Federal Emergency Management Agency
FMWR	Family Morale Welfare and Recreation
FNSB	Fairbanks North Star Borough
FNSI	Finding of No Significant Impact
FORSCOM	Forces Command
FY	Fiscal Year
GHG	greenhouse gas
HQDA	Headquarters, Department of the Army
HWMP	Hazardous Waste Management Program/Plan
I-	Interstate
IAP	Installation Action Plan
IBCT	Infantry Brigade Combat Team
ICRMP	Integrated Cultural Resources Management Plan
ICUZ	Installation Compatible Use Zone
ID	Infantry Division
IET	initial entry training
IMCOM	Army Installation Management Command
INRMP	Integrated Natural Resources Management Plan
IONMP	Installation Operational Noise Management Plan
IRP	Installation Restoration Program
ISC	Installation Spill Contingency
ISD	Independent School District
JCC	Jefferson Community College
JLUS	Joint Land Use Study
JRTC	Joint Readiness Training Center
kV	kilovolt

Acronym	Definition
LBP	lead-based paint
LOS	Level of Service
MARC	Maryland Rail Commuter
mgd	million gallons per day
MILCON	Military Construction
MOAs	Military Operations Areas
MS4	Municipal Separate Storm Sewer System
msl	mean sea level
MTA	Maryland Transit Administration
NAAQS	National Ambient Air Quality Standards
NCO	Noncommissioned Officer
NEPA	National Environmental Policy Act
NHPA	National Historic Preservation Act
NHL	National Historic Landmark
NO ₂	nitrogen dioxide
NO _x	nitrogen oxides
NPDES	National Pollutant Discharge Elimination System
NPL	National Priorities List
NRHP	National Register of Historic Places
NRCS	Natural Resources Conservation Service
NSA	National Security Agency
NWI	National Wetlands Inventory
NZ	Noise Zone
O ₃	ozone
PCBs	polychlorinated biphenyls
PCS	permanent change of station
2013 PEA	2013 Programmatic Environmental Assessment
PEIS	Programmatic Environmental Impact Statement
PM _{2.5}	particulate matter whose diameter is less than or equal to 2.5 micrometers
PM ₁₀	particulate matter whose diameter is less than or equal to 10 micrometers
PRS	petroleum release site
PSA	petroleum storage area
QDR	Quadrennial Defense Review
R	Restricted Area

Acronym	Definition
RCI	Residential Communities Initiative
RCRA	Resource Conservation and Recovery Act
RCW	red-cockaded woodpecker
RDTE	Research, Development, Test & Evaluation
RECONS	Regional Economic System
ROI	region of influence
RPMP	Real Property Master Plan
RV	recreational vehicle
SAMMC	San Antonio Military Medical Center
SAV	submerged aquatic vegetation
SCOE	Sustainment Center of Excellence
SHPO	State Historic Preservation Office
SKIES	Schools of Knowledge, Inspiration, and Exploration & Skills
SO ₂	sulfur dioxide
SOCOM	U.S. Special Operations Command
SPCC	Spill Prevention, Control, and Countermeasures
SPEA	Supplemental Programmatic Environmental Assessment
SUA	Special Use Airspace
SWMU	Solid Waste Management Unit
SWPPP	Stormwater Pollution Prevention Plan
TCP	Traditional Cultural Property
TDY	Temporary Duty
TLEP	Training Land Expansion Program
UAS	Unmanned Aircraft System
U.S.	United States
USAACE	U.S. Army Aviation Center of Excellence
USACE	U.S. Army Corps of Engineers
USAG	U.S. Army Garrison
USARPAC	U.S. Army Reserve Pacific
USFS	U.S. Forest Service
USFWS	U.S. Fish and Wildlife Service
USGS	U.S. Geological Survey
UST	underground storage tank
UXO	unexploded ordnance

Acronym	Definition
VEC	Valued Environmental Component
VOC	volatile organic compound
WMATA	Washington Metropolitan Area Transit Authority
WWTP	wastewater treatment plant

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