

SUMMARY OF SCENARIO ENVIRONMENTAL IMPACTS**[TABS FINAL VERSION]****SCENARIO #695****TITLE: USA-0243 REALIGN FORT KNOX**

GENERAL DESCRIPTION: Realign Fort Knox, KY, by relocating the Armor Center and School to Fort Benning, GA; relocating the 84th Army Reserve Regional Training Center from Fort McCoy, WI to Fort Knox, KY; relocating various combat support and combat service support units from Europe and Korea; and activating an Infantry Brigade Combat Team (BCT) at Fort Knox, KY.

Notes:

- 1) Although BCT is moving to Fort Knox, overall there is a negative net personnel change to Ft Knox due to Armor Center and School moving to Fort Benning. MilCon of approximately 34,000 SF is required.
- 2) Significantly less acreage will be impacted by this move, since Brigade will occupy/use most of the empty facilities, training land, and ranges resulting from moving the Armor Center and School from Fort Knox to Fort Benning.
- 3) Fort Benning gains approximately 9,900 personnel and requires approximately 3,000,000 SF new MilCon.

ANALYST: _____**LAST UPDATE:** 4/18/05

Env Resource Area	#1 Gaining Installation Assessment Inst Name: Ft Knox	Analyst Comments (& data source(s) that drive assessment)
Air Quality	No impact. Installation is in attainment area for all criteria pollutants.	#213 – Installation is in attainment area for all criteria pollutants. #211 - No major source thresholds projected to be exceeded #220 -Major operating permit (but no permit limits shown on #211) #218/ISR2 - No mission impact indicated.
Cultural/Archeological/Tribal Resources	194 historic properties listed. 1 Native American tribe has asserted an interest in archeological sites. Due to interest from Native American tribes, a potential impact may occur as a result of increased time delays and negotiated restrictions. Also resources must be evaluated on a case-by-case basis, thereby causing increased delays and costs since there is no Programmatic Agreement in place.	#230-232 - No arch resources and not a high potential for archeological sites #233 - 32% surveyed; #234 - 1 tribe (Cherokee) asserts interest #235- 194 historic props #236 - No Programmatic Agreement ISR2 - No adverse impact to mission
Dredging	No impacts	#226, 227, 228 – N/A
Land Use Constraints/Sensitive Resource Areas	No impacts.	#30 - Buildable Acres – 1321 acres available; 10.5 required based on 1.5 small admin organizations. #201, 254- no restrictions. #256 - 1 SRA, restricts development on 1.3% of inst CERL Study – moderate encroachment projected
Marine Mammals/Marine Resources/Marine	No impacts	#248, 249, 250, 252, 253 – N/A

Noise	Operations are not currently restricted due to noise considerations, however noise associated with mission increase may result in increased noise off-installation. Further evaluation required.	#239 – 11,647 acres of Noise Zone 2 and 691 acres of Noise Zone 3 that extend off the installation, which is moderately encroached by development. ISR2- no restr
Threatened& Endangered Species/Critical Habitat	Three TES exist on main installation (Bald Eagle, Indiana Bat, Grey Bat), with no restrictions to operations. Additional operations may impact threatened / endangered species possibly leading to restrictions on training or operations	#259 – Three TES identified on main installation (Bald Eagle, Indiana Bat, Grey Bat), w/ no restr. #260-264 - No habitat/candidate species ISR2 shows no impact.
Waste Management	No impacts	Q#269 – Installation does not have RCRA Subpart X permit
Water Resources	Installation / range is located over the recharge zone of a sole-source aquifer, which may result in future regulatory limitations on training activities.	#276 – over sole source aquifer #278, 279, 293 – No water restr IREM - infr can support 65K more people #291 –2 on-installation govt owned production plants #297 – 1 on-installation dom ww treatment plt #282 – no industrial ww treatment plts
Wetlands	No impacts	#251 - Survey dated 11/1994 #257 - Wetlands restrict less than 3% of the range and less than 3% of the main installation.

Env Resource Area	#2 Gaining Installation Assessment Inst Name: Ft Benning	Analyst Comments (& data source(s) that drive assessment)
Air Quality	Impact Expected. Ft. Benning is projected to be in Non-Attainment for PM2.5. Added operations, new construction and large incoming new population will require Air Conformity Analysis and New Source Review.	#213, #219 - All NAAQS in Attainment currently, but projected to be Non-Attainment for PM2.5 (state of GA is contesting). #211 Emissions inventory shows permit limits exceeded for VOC, NOx, CO, PM, & Major source threshold limits exceeded for NOx and PM2.5. However, the State of Georgia exempts emissions from prescribed burning activities. 99.4% of CO, 68.2% of Nox, 94% of PM, 92% of all PM 10 and 60.3% of VOC are attributed to prescribed burning activities. Therefore the emissions reported to the State are under permitted thresholds. #220 Has Major Source permit

Cultural/Archeological/Tribal Resources	<p>1226 archeological sites identified, with restrictions on vehicle traffic and digging. 1617 historic properties. 12 Native American tribes have asserted an interest in archeological sites.</p> <p>Cultural/archaeological resources currently restrict operations. Additional operations may impact these resources, which may lead to additional restrictions. Due to interest from Native American tribes, a potential impact may occur as a result of increased time delays and negotiated restrictions. Resources must be evaluated on a case-by-case basis, thereby causing increased delays and costs since there is no Programmatic Agreement in place.</p>	<p>#230-1226 arch sites listed, with restrictions on vehicle traffic and digging within designated sites #231-Native People Sites Identified #232 –Areas with high potential for archaeological resources identified #233 - 90% surveyed #234 – 12 tribes asserted interest in burial/sacred sites; in formal consultation #235 - 1617 historic properties listed #236-No Programmatic Agreement ISR2 shows access to sites is impacting mission.</p>
Dr ed g- ing	No impact.	#226-228 –No restr
Land Use Constraints/Sensitive Resource Areas	No impact.	<p>#30 - Buildable Acres – 655 req'd; >2500 non-training acres available (based on 15.2 large admin organizations) #256 – 1 Sensitive Resource Area identified but causes no restrictions CERL Study – moderate encroachment projected</p>
Mar ine Mamm als/ Mar	No impact.	#248, #249, #250, #252, #253 - No restrictions
Noise	Due to 9K+ increase in population, current noise restrictions and moderate encroachment, noise analysis and monitoring is required.	#201, #239 - 9003 acres of Noise Zone 2, and 1785 acres of Zone 3 extend outside installation boundary. IENMP imposes ban on firing .50 Cal or larger from 1100-0600 hours
Threatened& Endangered Species/Critical Habitat	<p>5 TES listed (Bald Eagle, Wood Stork, American Alligator, Relict Trillium, and Red-Cockaded Woodpecker), with restrictions to 0.1% of the installation. Bald Eagle restrictions affect airspace for flight operations 1,000 vertical feet and 1,000 horizontal feet from nest site. Ground training is restricted to no training within 1,500 feet of nest sites. These restrictions are implemented during the nesting period (Dec-May). Relict Trillium area restricted to foot traffic only and no digging allowed. Red-Cockaded Woodpecker restricts vehicle use, maneuver and bivouac, weapons firing, pyrotechnics use, and digging within 200 feet of individual red-cockaded woodpecker cavity trees.</p> <p>TES already restrict operations. Additional operations may further impact TES, leading to additional restrictions on operations.</p>	<p>#201, 259, 261 - 5 TES listed (Bald Eagle, Wood Stork, American Alligator, Relict Trillium, and Red-Cockaded Woodpecker), with restrictions to 0.1% of the installation. Bald Eagle restrictions affect airspace for flight operations 1,000 vertical feet and 1,000 horizontal feet from nest site. Ground training is restricted to no training within 1,500 feet of nest sites. These restrictions are implemented during the nesting period (Dec-May). Relict Trillium area restricted to foot traffic only and no digging allowed. Red-Cockaded Woodpecker restricts vehicle use, maneuver and bivouac, weapons firing, pyrotechnics use, and digging within 200 feet of individual red-cockaded woodpecker cavity trees.</p> <p>#260 - No critical habitat #262 - BO restrictions impede expansion #263 - 1 candidate species (Georgia Rockcross) affects 0.005% of range.</p>

Waste Management	No Impact.	#269 No RCRA Subpart X Permit - but none needed.
Water Resources	<p>No impact.</p> <p>Water quality impaired by pollutant loadings. Current operations may contribute to impaired water quality. Significant mitigation measures may be required to reduce impacts to water quality and achieve US EPA water quality standards.</p>	<p>#276- Not over a recharge zone</p> <p>#278, 293 - No previous restrictions</p> <p>#279 - installation discharges to 7 impaired waterways, but is not currently a polluter of impaired waterways</p> <p>#291 – Has 5 potable water production plants on-installation</p> <p>#297 – Installation uses 2 On Military Installation plants for sewage treatment</p> <p>IREM shows water infrastructure can support 17,009 more people</p> <p>ISR2 indicates WQM and WWQM issues adversely impact the mission.</p>
Wetlands	No impacts.	<p>#251 - Wetlands survey completed 1995</p> <p>#257 – Wetlands restrict 9% of range</p>

SUBJECT: SUMMARY OF SCENARIO ENVIRONMENTAL IMPACTS (CONTINUED)

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Env Resource Area	<i>Losing</i> Installation Assessment Inst Name: <u>Fort McCoy</u>	Analyst Comments (& data source(s) that drive assessment)
Air Quality	No impacts.	Environmental impact to losing installation is considered neutral or positive to all ten resource areas.
Cultural/Archaeological/ Tribal Resources	No impacts.	
Dredging	No impacts.	
Land Use Constraints/Sensitive Resources	No impacts.	
Marine Mammals/Marine Resources	No impacts.	
Noise	No impacts.	
Threatened & Endangered Species/Critical	No impacts.	
Waste Management	No impacts.	
Water Resources	No impacts.	
Wetlands	No impacts.	

SUBJECT: SUMMARY OF SCENARIO ENVIRONMENTAL IMPACTS (CONTINUED);

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IMPACTS OF COSTS

Env Resource Area	Gaining Installation Inst Name: <u>Ft Knox, Fort Benning</u>	Losing Installation Inst Name: <u>Fort McCoy</u>
Environmental Restoration*	None.	None.
Waste Management	None.	None.

<p>Environmental Compliance</p>	<p><u>Knox:</u> - Evaluation to determine if buildings/structures are significant - \$1,000 to \$2000 per building depending on size, complexity, and location. - Evaluation to determine if archeological/tribal site is significant - \$15,000 to \$40,000 per site -Develop Programmatic Agreement (PA) - \$10K -Conduct Tribal govt to govt consultations - \$2K-\$10K per meeting. -ESA Consultation (BA Prep) \$10K-\$100K -Endangered Species Management (includes monitoring) \$20K-\$2M -Noise analysis and monitoring -\$5K-\$75K -NEPA Environmental Assessment - \$100K</p> <p><u>Ft Benning:</u> -Air Conformity Analysis - \$25K-\$75K -New Source Review -\$100K-\$500K -Re-alignment NEPA at gaining base – 9K+ personnel - \$1M (EIS) - Evaluation to determine if buildings/structures are significant - \$1,000 to \$2000 per building depending on size, complexity, and location. - Evaluation to determine if archeological/tribal site is significant - \$15,000 to \$40,000 per site -Develop Programmatic Agreement (PA) - \$10K -Conduct Tribal govt to govt consultations - \$2K-\$10K per meeting. -Install Best Mgt Practices to protect impaired waterways and reduce non-point source runoff from training areas and ranges - \$100K - \$3M. -Noise analysis and monitoring -\$5K-\$75K -ESA Consultation (BA Prep) \$10K-\$100K -Endangered Species Management (includes monitoring) \$20K-\$2M</p>	<p>None.</p>
<p>COBRA Costs:</p>	<p><u>Knox:</u> NEPA (EA) - \$100K Noise Analysis - \$20K</p> <p><u>Ft Benning:</u> Air Conformity Analysis - \$50K. New Source Review -\$100K NEPA (EIS) - \$1M. Noise Analysis - \$20K</p>	<p>None.</p>