

SUMMARY OF SCENARIO ENVIRONMENTAL IMPACTS

[TABS FINAL VERSION]

SCENARIO # S&S-0035RV3

TITLE: S&S-0035RV3 ICP TO DLA

General Description:

Proposal affects the following Army installations:

1. Aberdeen PG gains approximately 230 personnel and construction of approximately 32,000 SF MilCon
2. Detroit Arsenal gains approximately 600 personnel and construction of approximately 108,000 SF MilCon.
3. Fort Belvoir gains approximately 10 personnel but no new MilCon.
4. Redstone, Huachuca, Rock Island, Soldier System Center are losing personnel only.

ANALYST _____

LAST UPDATE: 5/06/05

Env Resource Area	#1 Gaining Installation Assessment Inst Name: Aberdeen Proving Ground	Analyst Comments (& data source(s) that drive assessment)
Air Quality	Impact Expected. APG is currently in Non-Attainment area for Ozone. Addition of operations may exceed major source thresholds for NOx and VOCs. Added operations will require New Source Review permitting and Air Conformity Analysis.	#213, 219 – In non-attainment for Ozone (EPA web site confirms non-attainment for Ozone 8-hour) #211 – Projected to exceed Major Source thresholds for Nox. #220 – Holds 2 Major Operating Permits (SIC code 9711) #222 – Emissions Credit Trading program available for NOx and VOCs #218 – No restrictions to operations reported due to air quality requirements
Cultural/Archeological/Tribal Resources	78 Historic properties, 5 archeological resources identified to date and areas with high archeological potential, but no restrictions to mission reported. A very limited portion of the installation has been surveyed for cultural resources; therefore, the extent of the cultural resources on the installation and impacts to those resources is uncertain. Potential impacts may occur as result of increased times delays and negotiated restrictions, due to tribal government interest. Potential impacts may occur, since resource must be evaluated on a case-by-case basis, thereby causing increased delays and costs.	#233- A very limited portion of the installation has been surveyed for cultural resources (<5%) therefore the extent of cultural resources on the installation and impacts to these resources is uncertain. #235 – 78 Historic properties identified #229 – No known limitations to fee-simple ownership #230 – 5 archaeological resources known on installation; no restrictions reported #231 – Native People sites identified #236 – No Programmatic Agreement with SHPO #201 – Operations are not restricted due to cultural/archaeological/tribal resources however, these resources were identified. #234 – 5 tribes have asserted interest in burial/sacred sites; in contact, but no formal consultation yet. #232 – Areas with high archaeological potential identified.
Dredging	No Impact. If the new unit/activity requires dredging, then UXO and endangered species surveys may be required.	#227 – If new unit/activity requires dredging, then dredging may not be able to occur in the short term due to known dredging impediments. #226 – If the new unit/activity requires dredging, then UXO and endangered species surveys may be required.

<p style="text-align: center;">Land Use Constraints/Sensitive Resource Areas</p>	<p>No Impact.</p> <p>Four SRAs identified but cause no restrictions.</p>	<p>#30 – 2,863 buildable acres reported, approximately 10 acres required. (based on the 24% the size of a Large Admin Organization Bldg that houses 970)</p> <p>#201 - Constraints listed include (4) limited ability to accept new or different missions due to availability of unconstrained land, (5) altered, modified or re-routed flight operations and/or flight patterns and (6) altered, modified or re-routed ground operations.</p> <p>#256 – 4 Sensitive Resource Areas identified but cause no restrictions</p> <p>CERL Encroachment Study – Moderate Encroachment Projection</p>
<p style="text-align: center;">Marine Mammals/Marine Resources/ Marine Sanctuaries</p>	<p>No impact.</p>	<p>#248, #250, #252, #253 - No restrictions</p> <p>#249 – TES listed include Shortnosed Sturgeon (<i>Accipenser brevorostrum</i>) (restricting Poole's Island Shoal waters around island) and Bald Eagle (<i>Haliaeetus leucocephalus</i>), (restricting Poole's Island areas near nest sites, APG Shoreline & Areas near nest sites- affecting 17.2 acres of installation)</p>
<p style="text-align: center;">Noise</p>	<p>No impact. No noise expected to be generated by this proposal.</p>	<p>#239 – 235,848 acres of Noise Zone 2 extend outside installation, which is not highly encroached by development.</p> <p>#202 – Installation has published noise abatement procedures for main installation and training range but not for auxiliary airfield.</p>

<p style="writing-mode: vertical-rl; transform: rotate(180deg);">Threatened & Endangered Species/Critical Habitat</p>	<p>Installation has Federally listed species (Shortnosed Sturgeon, Bald Eagle), that affect 17.2 acres of the installation and restricts night time flying operations (protection buffers around nests) on 7.9% of installation. Additional operations may further impact threatened/endangered species leading to additional restrictions on training or operations.</p>	<p>#249 – TES listed include Shortnosed Sturgeon (<i>Accipenser brevorostrum</i>) (restricting Poole's Island Shoal waters around island) and Bald Eagle (<i>Haliaeetus leucocephalus</i>), (restricting Poole's Island areas near nest sites, APG Shoreline & Areas near nest sites- affecting 17.2 acres of installation) #259 – TES listed include Shortnosed Sturgeon (<i>Accipenser brevorostrum</i>) and Bald Eagle (<i>Haliaeetus leucocephalus</i>). The Bald Eagle has delayed operations due to protection of buffers around nests during nesting season on approximately 7.9% of installation. #260 – No critical habitat identified #261 – Biological Opinion for Bald Eagle restricts range operations #262 – Development restrictions reported. Eagles: Existing Biological Opinions have limited impacts as they impose a monitoring responsibility primarily; some sites are protected. The ongoing Biological Assessment and subsequent Opinion will include an incidental take statement and some mitigation limits for some of the SOCOM training functions is expected. The extent of the limits is unclear, as the BA is still in development. Sturgeon: APG has a BA and BO from NOAA containing no limitations. APG is to coordinate with them if specific projects pose a risk. #263, #264 – No candidate species/habitat reported #201 - TES have restricted operations by limiting night flying times.</p>
<p style="writing-mode: vertical-rl; transform: rotate(180deg);">Waste Management</p>	<p>No impact.</p>	<p>#269 – Interim RCRA Subpart X OB/OD Permit, Permit has been submitted #265- Installation is a permitted hazardous waste RCRA Treatment Storage and Disposal (TSD) facility. #272 – Not a permitted solid waste disposal facility</p>

Water Resources	<p>Minimal impact expected.</p> <p>Water quality is impaired by pollutant loadings. Significant mitigation measures to limit releases may be required to reduce impacts to water quality and achieve US EPA water quality standards.</p>	<p>#276 – Installation not located over a sole-source aquifer</p> <p>#278 – McCarren Amendment does not apply</p> <p>#293 – Potable water restrictions in FY99 (33 days), FY01 (134 days) and FY02 (147 days). Source restrictions to prevent exceeding withdrawal permits, FY99 (9% of time restriction in place), FY01 (37%), FY02 (40%) from CHPPM Water Resources Report.</p> <p>#291 – Installation uses one Gov’t owned on-installation plant and one publicly owned off-installation plant for potable water.</p> <p>IREM indicates capacity for potable water to support 33,500+ personnel</p> <p>#279 – Installation discharges to impaired waterway; nutrient discharges from installation further impair waterway but is not a source of potable water.</p> <p>#297 – Two Sewage treatment plants on site; 1 gov’t owned, 1 privatized.</p> <p>#282 – Industrial Gov’t owned wastewater treatment system located on installation.</p> <p>#822, 824, 825, 826, ISRII – no restrictions reported</p>
Wetlands	No impact.	<p>#251- Survey completed 04/92.</p> <p>#257 – Wetlands affect 0.3% of range and installation each but do not restrict operations.</p>

SUBJECT: SUMMARY OF SCENARIO ENVIRONMENTAL IMPACTS (CONTINUED);**SCENARIO # S&S-0035RV3**

Env Resource Area	#2 <i>Gaining</i> Installation Assessment Inst Name: Detroit Arsenal	Analyst Comments (& data source(s) that drive assessment)
Air Quality	No impact. Installation is in Attainment area for all Criteria Pollutants.	#213 – In attainment for all criteria pollutants #211 – No permit or major source thresholds projected to be exceeded, based on a 15% increase in emissions at Detroit Arsenal. #220 – Holds 2 Synthetic Minor Operating Permits (SIC code 8733- Permit # 566-96A & 146-02) #222 – Emissions Credit Trading program available for NO2, VOCs, PM10, PM2.5 Pb, SO2, CO #218 – No restrictions to operations reported due to air quality requirements
Cultural/Archeological/Tribal Resources	18 Historic properties identified to date but no restrictions to mission reported. Potential impacts may occur, since resource must be evaluated on a case-by-case basis, thereby causing increased delays and costs.	#233 - N/A answer = No survey done #235 – 18 historic prop identified #230 –No arch resources reported #231 – N/A #236 – No Programmatic Agreement in place #234 – N/A #232 – N/A
Dredging	No impact	#226, #227, #228 – N/A
Land Use Constraints/Sensitive Resource Areas	May not be sufficient buildable acres.	#30 – 21.2 buildable acres reported, approximately 27 acres required. (based on one 60% of a Large Admin Organization that typically houses 970 people) #201 – No restrictions CERL Encroachment Study – High Encroachment Projection
Marine Mammals/Marine Resources/Marine Sanctuarie	No impact	#248, #249, #250, #252, #253 – N/A
Noise	No impact	#239 – N/A
Threatened& Endangered Species/Critical Habitat	No impact	#259 – No TES listed (N/A) #260 – No critical habitat identified (N/A) #261 – No Biological Opinion (answered N/A) #262 – No restrictions reported #263, #264 – No candidate species/habitat reported

Waste Management	No impact.	#269 –No RCRA Subpart X OB/OD Permit #265- No RCRA TSD facility #272 – Not a permitted solid waste disposal facility
Water Resources	Minimal impact expected. Water quality is impaired by pollutant loadings. Significant mitigation measures to limit releases may be required to reduce impacts to water quality and achieve US EPA water quality standards.	#276 – Installation is not located over a sole-source aquifer (N/A) #278 – McCarren Amend does not apply #293 – No potable water restrictions reported #291 – Installation uses 1 Off Military Installation Publicly Owned plant for potable water. IREM indicates remaining capacity for potable water to support 295,850 personnel #279 –Installation discharges to impaired waterway; unknown if installation contributes to status of waterway #297 – 1 Off Military Installation Publicly Owned Plant for Sewage Treatment #282 – No Industrial wastewater treatment system reported #822, 824, 825, 826 – no restrictions reported
Wetlands	Wetlands Survey may need to be conducted to determine impact, as appropriate	#251- N/A #257 – N/A

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Env Resource Area	#3 <i>Gaining</i> Installation Assessment Inst Name: <u>Fort Belvoir</u>	Analyst Comments (& data source(s) that drive assessment)
Air Quality	No impact.	#213 –Moderate Non-Attainment for Ozone (8-hour) per EPA web and proposed/projected for Non-Attainment for PM2.5. #211 - No permit thresholds projected to be exceeded (substantial buffers exist on current permit) #218 – No operational restrictions associated with air issues #222 – Emissions Credit Trading program not available #220 – Has a Major Title V Permit and (Natural) Minor Operating Permit.
Cultural/Archeological/ Tribal Resources	No impact. 12 historic/prehistoric sites archeological resources identified to date with some restrictions on future construction. 58 historic properties identified. Cultural/archeological/tribal resources currently restrict operations. Additional operations may impact these resources, which may lead to increased delays and costs – impacts very unlikely since no construction or training is planned.	#230- 12 historic/prehistoric sites that restrict future construction in certain areas. #231 - No Native People’s Sites #232 – No sites of archeological potential #233 – 100% surveyed #235 - 58 historic properties #234 – No tribes interested in resources. #236 – No Programmatic Agreement. .
Dredg-ing	No impact.	#227 - If new activity requires dredging, then dredging may not be able to occur in the short term due to known dredging impediments #226, 228 - N/A
Land Use Constraints/Sen sitive Resource Areas	No impact.	Buildable Acres - approx 2,355 acres available, no MilCon required. #201, 254– No restrictions/coordination required. #256 – One Sensitive Resource Area that restricts airspace. CERL Study – high encroachment projected.
Mari ne Ma mm als/ Mari	No impact	#248, 250, 252, 253 – N/A
Noise	No impact.	#239 - No noise contours off-installation.

Threatened & Endangered Species/Critical Habitat	No impact, since no training involved in this action. Installation has Federally listed species, Bald Eagle, that results in aircraft height restriction over nest during nesting season, no land-disturbing training or timber clear cutting along undeveloped/undisturbed shorelines (750 feet inland), and helicopter flying restrictions	#249 Restrictions for TES are in place – no clear cutting or training 750 feet inland along undisturbed and undeveloped shoreline. Restricted helicopter flying #259 1 TES identified, Bald Eagle #260-262,264 - No habitat restrictions, no proposed critical habitat #263 – No candidate species ISR2 shows no impact.
Waste Management	No impact.	#269 – No RCRA Subpart X Permit; none required.
Water Resources	No impact.	#276,278 – No restrictions #279 – Does not discharge to imp waterway. #293 – No water use restrictions have been reported #824/825 indicates adequate water avail IREM – potable water infr. can support 19,000 more people, only 36 added. #282 – No industrial wastewater treatment plant
Wetlands	No impact. No construction planned.	#251 – Installation was surveyed in 97 #257 – 10.2% of installation has wetlands that restrict operations, permits needed if planning to disturb wetlands.

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SCENARIO # S&S-0035RV3

Env Resource Area	<i>#1 Losing Installation Assessment</i> Inst Name: Redstone, Huachuca, Rock Island, Soldier Systems Center	Analyst Comments (& data source(s) that drive assessment)
Air Quality	No impact	Environmental impact is considered neutral or positive to losing installation for all 10 environmental resource areas.
Cultural/ Archeological Resources	No impact	
Dredging	No impact	
Land Use Constraints/Sensitive Resource Areas	No impact	
Marine Mammals/ Marine Resources / Marine Sanctuaries	No impact	
Noise	No impact	
Threatened & Endangered Species/ Critical Habitat	No impact	
Waste Management	No impact	
Water Resources	No impact	
Wetlands	No impact	

SUBJECT: SUMMARY OF SCENARIO ENVIRONMENTAL IMPACTS (CONTINUED);

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IMPACTS OF COSTS

Env Resource Area	Gaining Installation Inst Name: Aberdeen Proving Ground, Fort Belvoir, Detroit Arsenal	Losing Installation Inst Name: Redstone, Huachuca, Rock Island, Soldier Systems
Environmental Restoration*	None.	None.
Waste Management	None.	None.

Environmental Compliance	<p><u>Aberdeen Proving Ground</u> -Air Conformity Analysis - \$25K-\$75K -New Source Review Analysis and -Permitting - \$100K-\$500K -Archeological/tribal resources inventory - \$25-\$100 per acre. - Historical building/structure inventory - \$500 - \$1,500 per structure -Evaluation to determine if arch/tribal site is significant - \$15K - \$40K per site - Evaluation to determine if historic buildings/structures are significant. -Conduct Tribal government to government consultation \$500 to \$2,000 per meeting (TDY costs) -Develop Programmatic Agreement -Endangered Species Management (includes monitoring) \$20K-\$2M - Install BMPs to protect impaired waterways and reduce non-point source pollution - \$100K-\$3M -Realignment NEPA (EA) \$100K.</p> <p><u>Detroit Arsenal</u> -Evaluation to determine if arch/tribal site is significant - \$15K - \$40K per site - Evaluation to determine if historic buildings/structures are significant. -Develop Programmatic Agreement - Survey for jurisdictional wetlands - Install BMPs to protect impaired waterways and reduce non-point source runoff from training areas and ranges. -Realignment NEPA < 1000 people (EA) - \$100K</p> <p><u>Fort Belvoir</u></p>	<p>None.</p>
<p>COBRA Costs:</p>	<p><u>Aberdeen Proving Ground</u> Air Conformity Analysis - \$50K New Source Review - \$100K NEPA (EA) - \$100K</p> <p><u>Detroit Arsenal</u> NEPA (EA) - \$100K</p> <p><u>Fort Belvoir</u> \$0</p>	<p>None</p>