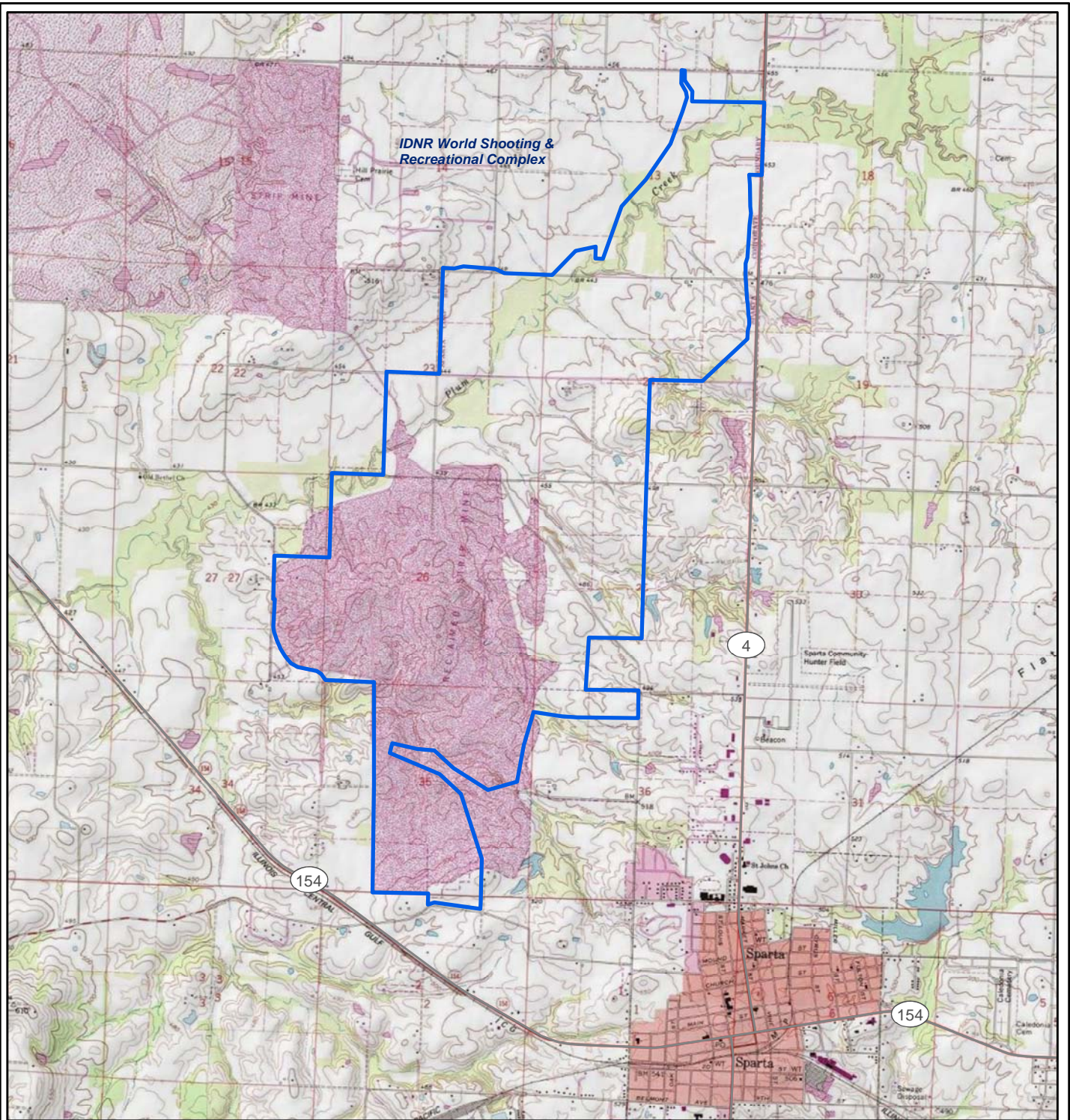


Catalog

ALL_Figures	1
Map1_SiteLocMap.pdf	2
Map2_LandCover.pdf	3
Map3_TopoMap.pdf	4
Map4_SoilsMap.pdf	5
Map5_WaterMap.pdf	-1
Map6_FacilityMap.pdf	-1
Map7_BurnUnitMap.pdf	-1
AppB_REC	9
2013 INRMP Update_REC.pdf	-1
Page 1	11
Page 2	12
Page 3	13
AppC_Laws&Regs	16
AppD_IWFMP	36
ALL_Figures_BurnUnits.pdf	-1
Sparta_burn 101-1.pdf	72
Sparta_burn 102-1.pdf	73
Sparta_burn 103-1.pdf	74
Sparta_burn 103-2.pdf	75
Sparta_burn 104-1.pdf	76
Sparta_burn 105-1.pdf	77
Sparta_burn 105-2.pdf	78
Sparta_burn 107-1.pdf	79
Sparta_burn 107-2.pdf	80
Sparta_burn 108-1.pdf	81
Sparta_burn 108-2.pdf	82
Sparta_burn 108-3.pdf	83
Sparta_burn 108-4.pdf	84
Sparta_burn 110-1.pdf	85
Sparta_burn 201-1.pdf	86
Sparta_burn 202-1.pdf	87
Sparta_burn 202-2.pdf	88
AppE_ALLCorrespondence_July2013	89
INRMP Agency Consultation_Part2.pdf	95
INRMP Agency Consultation_Part3.pdf	99
INRMP Agency Consultation_Part4.pdf	103
INRMP Agency Consultation_Part5.pdf	107
INRMP Agency Consultation_Part6.pdf	111
INRMP Agency Consultation_Part7.pdf	115
AppF_SpeciesLists	153
AppG_AnnualReview	197

APPENDIX A

MAPS



Legend

 Sparta Training Area



Notes: Spatial Data courtesy of ILARNG and Illinois Natural Resources Geospatial Data Clearinghouse;
 Projection: NAD 1983 UTM Zone 16N



**MAP 1
SITE LOCATION MAP**

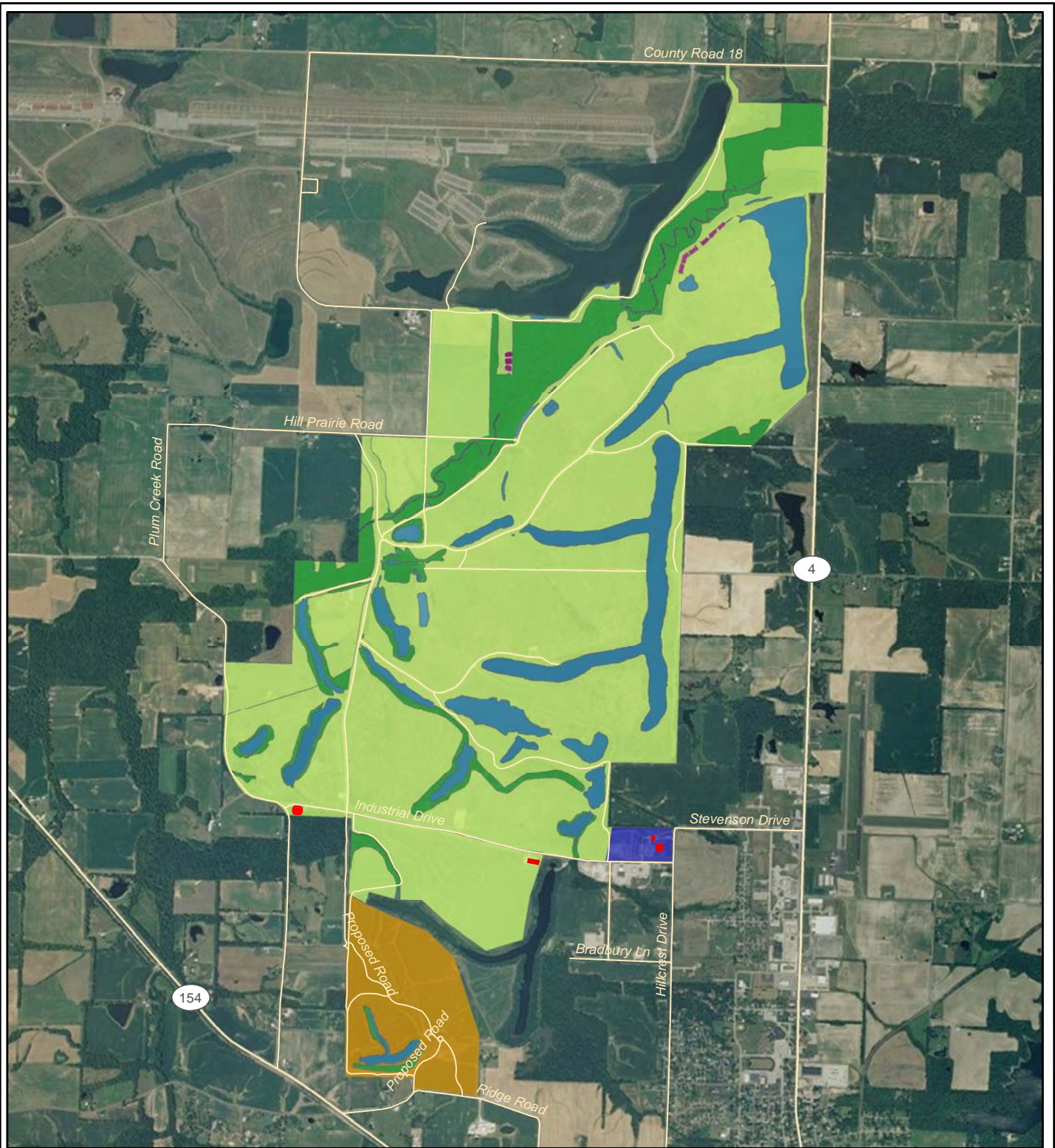
**Integrated Natural Resources
Management Plan
Sparta Training Area
Randolph County, Illinois**

0 1,000 2,000
Meters

0 2,500 5,000 7,500
Feet



"No warranty is made by the ILARNG/ARNG-ILE as to the accuracy, reliability, or completeness of these data for individual use or aggregate use with other data. This map is a "living document", in that it is intended to change as new data become available and is incorporated into the Enterprise GIS database."



Legend

Existing Infrastructure

Land Cover

Agriculture

STA Headquarters Complex

Forest

Grassland

Water

Sediment Basins

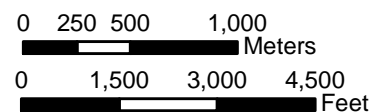


**MAP 2
LAND COVER MAP**

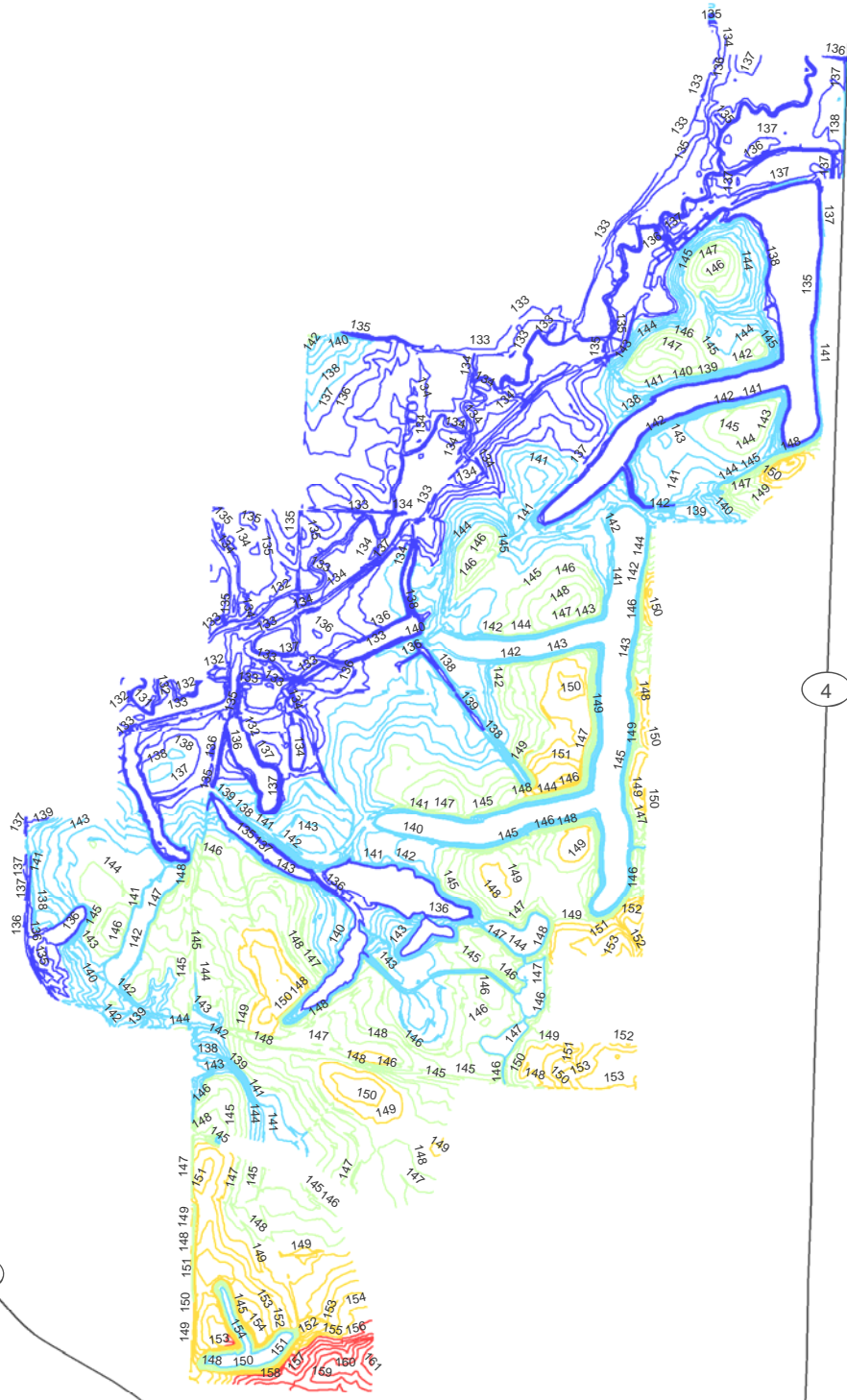
**Integrated Natural Resources
Management Plan
Sparta Training Area
Randolph County, Illinois**

Notes: Spatial Data courtesy of ILARNG and Illinois Natural Resources Geospatial Data Clearinghouse; Projection: NAD 1983 UTM Zone 16N

Illinois Army National Guard



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Legend

Elevations (meters)

- 130 - 137
- 138 - 143
- 143 - 148
- 149 - 154
- 155 - 162

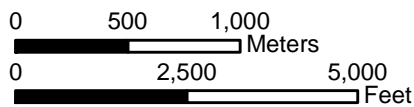


Notes: Spatial Data courtesy of ILARNG.
Projection: NAD 1983 UTM Zone 16N




















MAP 3 TOPOGRAPHY MAP

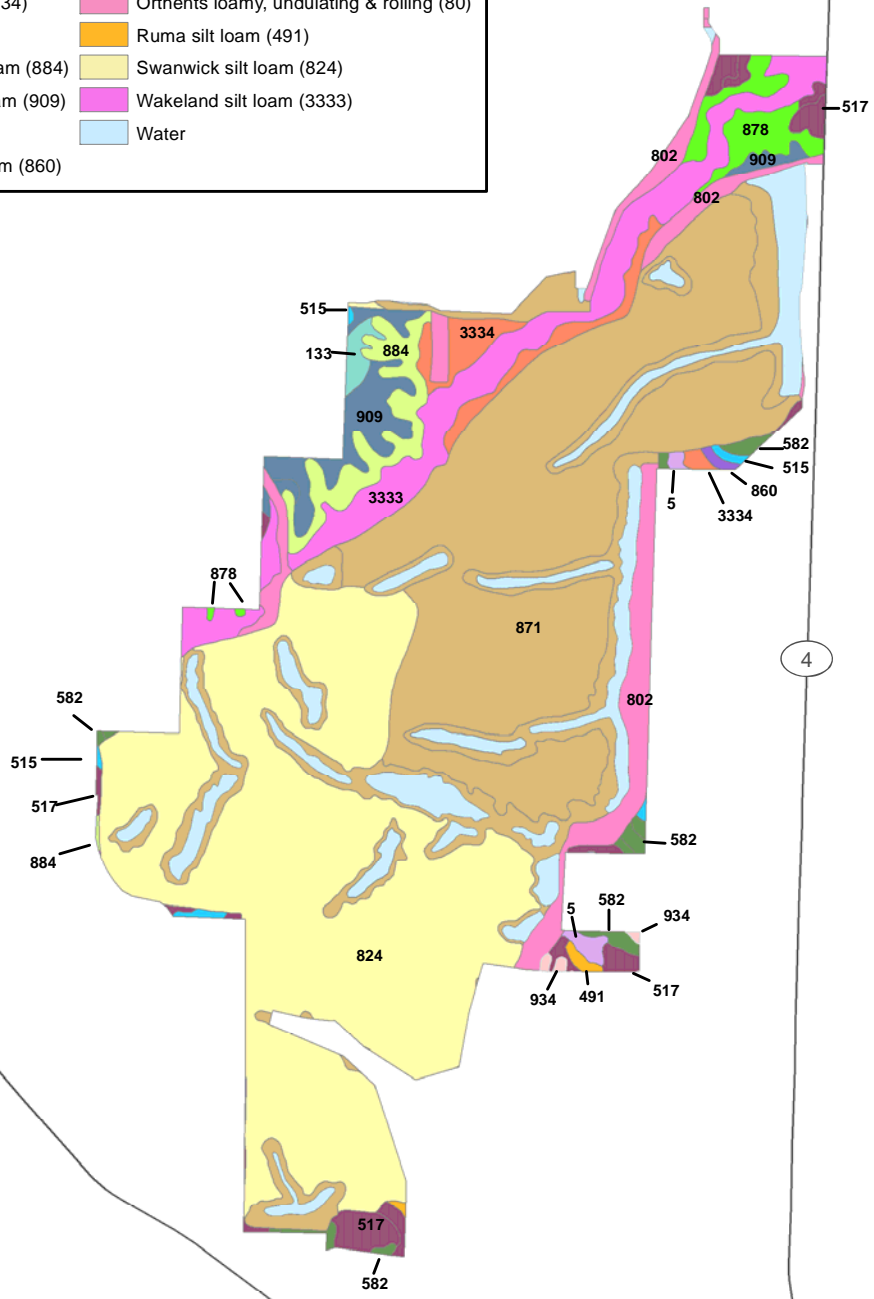
Integrated Natural Resources Management Plan Sparta Training Area Randolph County, Illinois



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NRCS Soil Map Units

- | | |
|--|---|
|  Banlic silt loam (878) |  Lenzburg gravelly silty clay loam (871) |
|  Birds silt loam, wet (3334) |  Marine silt loam (517) |
|  Blair silt loam (5) |  Oconee silt loam (113) |
|  Blair-Grantfork silt loam (934) |  Orthents loamy, undulating & rolling (80) |
|  Bunkum silt loam (515) |  Ruma silt loam (491) |
|  Bunkum-Couterville silt loam (884) |  Swanwick silt loam (824) |
|  Couterville-Oconee silt loam (909) |  Wakeland silt loam (3333) |
|  Homen silt loam (582) |  Water |
|  Homen-Atlas silty clay loam (860) | |



Legend

— Roads



Notes: Spatial Data courtesy of ILARNG.
Projection: NAD 1983 UTM Zone 16N



**MAP 4
SOILS MAP**

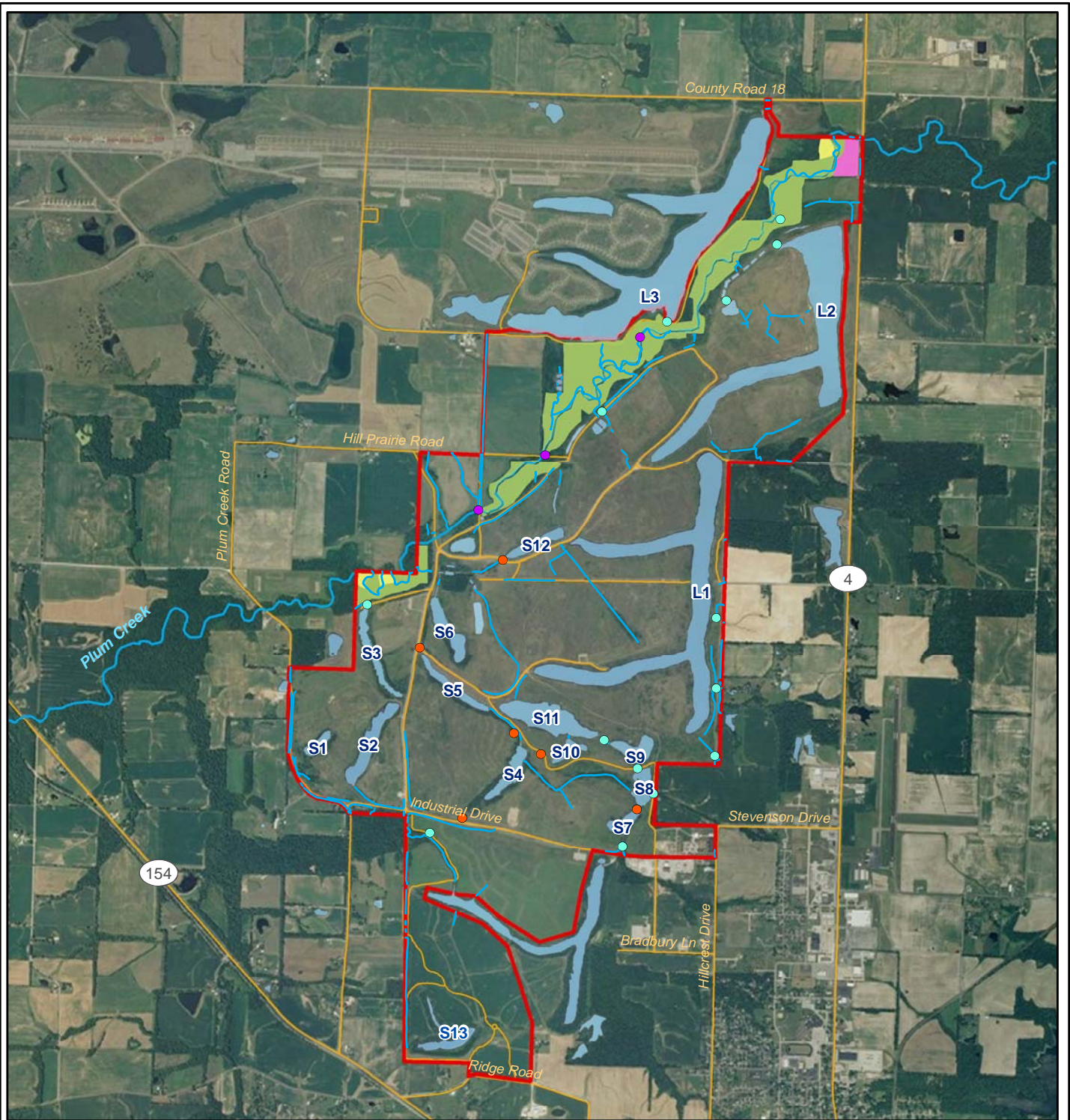
**Integrated Natural Resources
Management Plan
Sparta Training Area
Randolph County, Illinois**

0 500 1,000
Meters

0 2,500 5,000
Feet



"No warranty is made by the ILARNG/ARNG-ILE as to the accuracy, reliability, or completeness of these data for individual use or aggregate use with other data. This map is a "living document", in that it is intended to change as new data become available and is incorporated into the Enterprise GIS database."



Legend

- Culverts
- Low Water Crossings
- Bridge
- Streams
- Waterbodies
- Wetlands**
- Forested
- Scrub shrub / Emergent
- Scrub shrub
- Roads and Trails



**MAP 5
SURFACE WATERS,
WETLANDS &
FLOODPLAINS MAP**

**Integrated Natural Resources
Management Plan
Sparta Training Area
Randolph County, Illinois**

Notes: Spatial Data courtesy of ILARNG.
Projection: NAD 1983 UTM Zone 16N

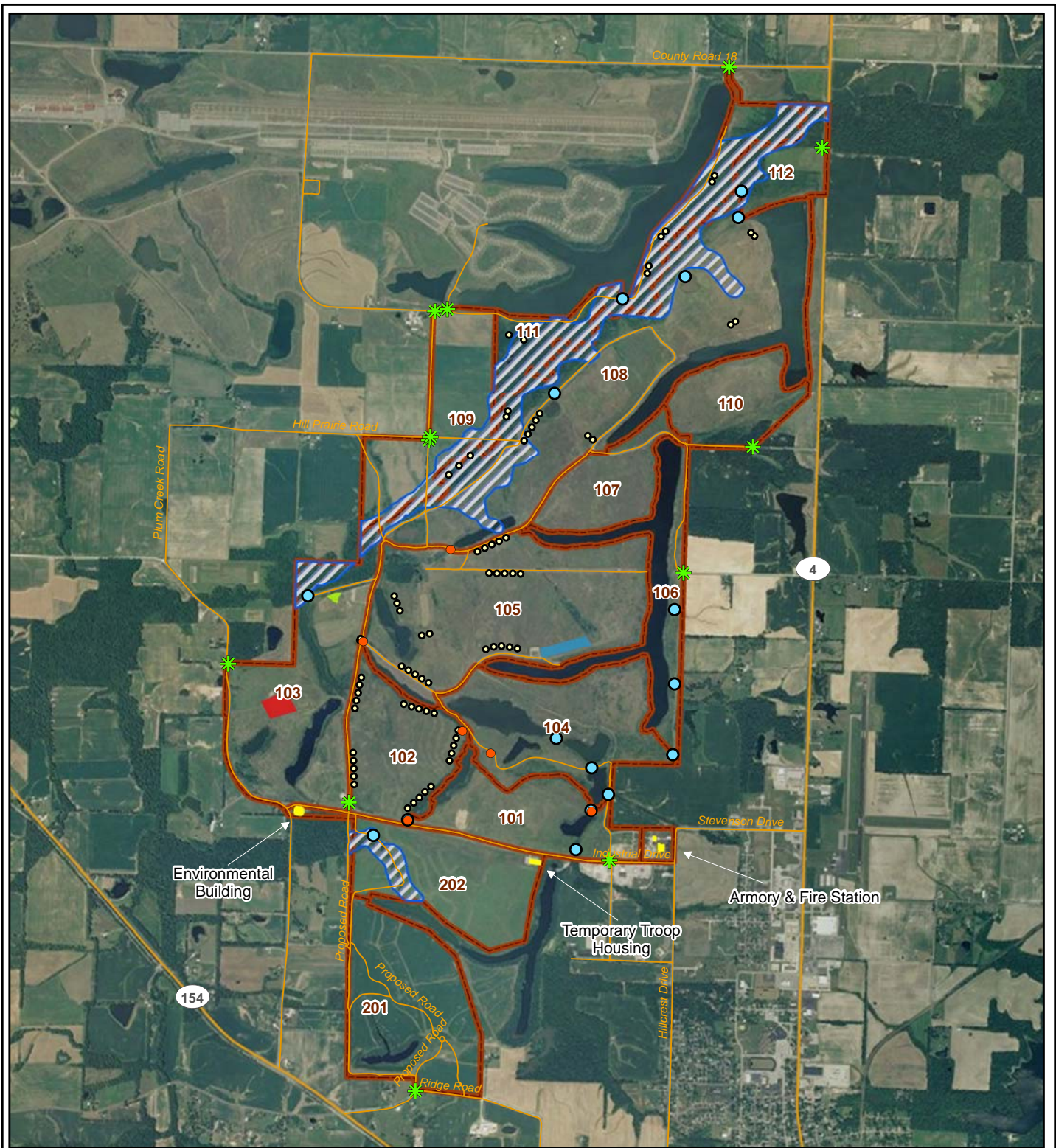
Illinois Army National Guard



0 500 1,000
Meters

0 2,500 5,000
Feet

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Legend

- Culverts
- Low Water Crossings
- Land Navigation Posts
- ✱ Gates
- Roads and Trails
- Hand Grenade Course
- Bayonet Course
- M203 Range
- FEMA 100-Year Floodplain
- Existing Infrastructure
- Training Areas

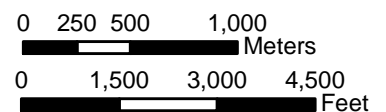


**MAP 6
SITE FACILITY MAP**

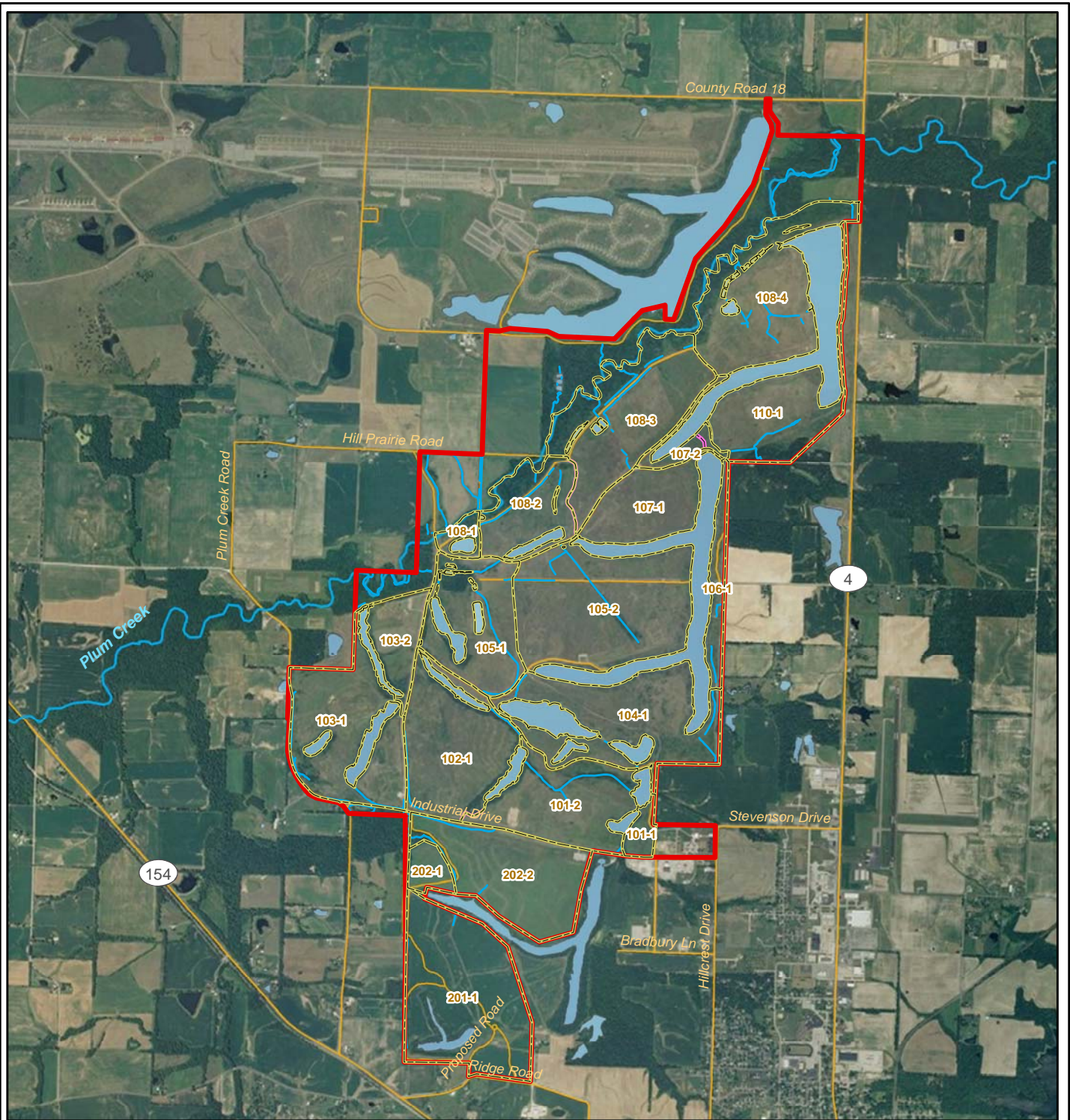
**Integrated Natural Resources
Management Plan
Sparta Training Area
Randolph County, Illinois**

Notes: Spatial Data courtesy of ILARNG and Illinois Natural Resources Geospatial Data Clearinghouse;
Projection: NAD 1983 UTM Zone 16N







Illinois Army National Guard



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Legend

-  Roads and Trails
-  Firebreaks
-  Streams
-  Prescribed Burn Units
-  Waterbodies
-  Sparta Training Area



MAP 7 PRESCRIBED BURN UNIT MAP

Integrated Natural Resources Management Plan Sparta Training Area Randolph County, Illinois

Notes: Spatial Data courtesy of ILARNG.
Projection: NAD 1983 UTM Zone 16N

Illinois Army National Guard



0 500 1,000
Meters

0 2,500 5,000
Feet

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APPENDIX B

RECORD OF ENVIRONMENTAL CONSIDERATION (REC)

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Enviro Tracking #:	ARNG ENVIRONMENTAL CHECKLIST	State ARNG
FY13-17C80-03	Enter information in the yellow shaded areas.	Illinois
PART A - PROJECT INFORMATION		
1. PROJECT NAME: Update the 2005 Sparta Training Area Integrated Natural Resources Management Plan (INRMP)		
2. PROJECT NUMBER: (MILCON if applicable) N/A	3. DATE PREPARED: 11-Jul-13	
4. DESCRIPTION AND LOCATION OF THE PROJECT/PROPOSED ACTION:		
a. Location (Include a detailed map, if applicable): The Sparta Training Area (STA) is located in southwestern Illinois, In Randolph County, approximately 55 miles southeast of St. Louis, MO and is 40 miles northwest of Carbondale, Illinois. The STA is approximately 2,642 acres in size and is zoned as industrial land by the City of Sparta. This site is reclaimed mining land.		
b. Description: This INRMP is an update and reorganization of the 2005 STA INRMP, developed for the planning period from fiscal year (FY) 2005 through 2011, and is the result of a review for operation and effect done by the United States Fish and Wildlife Service (USFWS), Illinois Department of Natural Resources (IDNR), and ILARNG. This INRMP integrates all aspects of natural resources management with the rest of the STA's mission, and therefore becomes the primary tool for managing the STA's ecosystem and habitat while ensuring the successful accomplishment of the military mission at the highest possible levels of efficiency. The INRMP is the guide for the management and stewardship of all natural resources present on STA. A multiple-use approach will be implemented to allow for the presence of mission-oriented activities, as well as protecting environmental quality through the efficient management of natural resources.		
c. The proposed action will involve (check all that apply):		
<input type="checkbox"/> Training activities/areas <input type="checkbox"/> Construction <input checked="" type="checkbox"/> Natural resource management <input type="checkbox"/> Maintenance/repair/rehabilitation <input type="checkbox"/> Real estate action <input type="checkbox"/> Environmental plans/surveys <input type="checkbox"/> Innovative readiness training project <input type="checkbox"/> Other (Explain):		
d. Project size (acres): (if applicable)	N/A	Acres of new surface disturbance (proposed): (if applicable)
		N/A
5. START DATE of PROPOSED ACTION (dd-mmm-yy): 1-Aug-13 Note: This must be a future date.		
6. PROGRAMMED FISCAL YEAR (if applicable): N/A		
7. END DATE (if applicable): 1-Aug-18		
PART B - DECISION ANALYSIS GUIDE		
To use a categorical exclusion, the project must satisfy the following three screening criteria: no segmentation, no exceptional circumstances and a qualifying categorical exclusion that covers the project. The following decision tree will guide the application and documentation of these three screening criteria. The criteria were extracted from 32 CFR Section 651.29 and represent the most common screening conditions experienced in the ARNG. NOTE: Each question in Part B must have an applicable block checked for concurrence with REC.		
1. Is this action segmented (the scope of the action must include the consideration of connected, cumulative, and similar actions)? <input type="checkbox"/> YES (go to #30) <input checked="" type="checkbox"/> NO (go to #2)		
2. Is there reasonable likelihood of significant environmental effects (direct, indirect, and cumulative)? If action meets screening criteria but is assessed in an existing EA or EIS, check NO and proceed to the next question. <input type="checkbox"/> YES (go to #30) <input checked="" type="checkbox"/> NO (go to #3)		
3. Is there a reasonable likelihood of significant effects on public health, safety or the environment? If action meets screening criteria but is assessed in an existing EA or EIS, check NO and proceed to the next question. <input type="checkbox"/> YES (go to #30) <input checked="" type="checkbox"/> NO (go to #4)		
4. Is there an imposition of uncertain or unique environmental risks? If action meets screening criteria but is assessed in an existing EA or EIS, check NO and proceed to the next question. <input type="checkbox"/> YES (go to #30) <input checked="" type="checkbox"/> NO (go to #5)		
5. Is the project of greater scope or size than is normal for the category of action? If action meets screening criteria but is assessed in an existing EA or EIS, check NO and proceed to the next question. <input type="checkbox"/> YES (go to #30) <input checked="" type="checkbox"/> NO (go to #6)		
6. Does the project introduce or employ unproven technology? If action meets screening criteria but is assessed in an existing EA or EIS, check NO and proceed to the next question. <input type="checkbox"/> YES (go to #30) <input checked="" type="checkbox"/> NO (go to #7)		

PART B - DECISION ANALYSIS (continued)

7. Will there be reportable releases of hazardous or toxic substances as specified in 40 CFR Part 302? If action meets screening criteria but is assessed in an existing EA or EIS, check NO and proceed to the next question.

- YES (go to #30) NO (go to #8)

8. If proposed action is in a non-attainment or maintenance area, will air emissions exceed de minimus levels or otherwise require a formal Clean Air Act (CAA) conformity determination? If action meets screening criteria but is assessed in an existing EA or EIS, check NO and proceed to the next question.

- YES (go to #30) NO (go to #9) N/A (go to #9)

9. Will the project have effects on the quality of the environment that are likely to be highly controversial? If action meets screening criteria but is assessed in an existing EA or EIS, check NO and proceed to the next question.

- YES (go to #30) NO (go to #10)

10. Will the project establish a precedent (or make decisions in principle) for future or subsequent actions that are reasonably likely to have future significant effects? If action meets screening criteria but is assessed in an existing EA or EIS, check NO and proceed to the next question.

- YES (go to #30) NO (go to #11)

11. Has federal funding been secured for the Innovative Readiness Training (IRT) project?

- N/A (go to #13) YES (go to #13) NO (go to #12)

12. NOTE: IRT projects not currently funded can secure approved NEPA documentation. However, once funding is secured State ARNG is required to coordinate with ARNG-ILE-T to complete natural and cultural surveys via proponent funding.

- CONFIRMED (go to #27)

13. Do you have a species list from the U.S. Fish and Wildlife Service that is less than 90 days old?

- YES (go to #14) **Date of List: 11 July 2013** NO (update species list return to #13)

14. In reviewing the species list, what determination was made by the State ARNG?

- No species present (go to #16)
 No affect (go to #16)
 May affect but not likely to adversely affect (go to # **Date of USFWS concurrence:**)
 May affect likely to adversely affect (go to #15)

15. Does an existing Biological Opinion cover the action?

- YES (go to #16) **Date of BO: 10 July 2013** NO (go to #30)

16. Have the Endangered Species Act, Section 7 requirements completed?

- YES (go to #17) **Date of Documentation: 10 July 2013** NO (complete documentation, return to #16)

17. Does the project involve an undertaking to a building or structure that is 50 years of age or older?

- YES (go to #18) NO (go to #20)

18. Has the building or structure been surveyed for the National Register of Historic Places?

- YES (go to #19) NO (complete inventory, return to #18)

19. Is the building or structure eligible for or listed on the National Register of Historic Places?

- YES (go to #20) NO (go to #20)

20. Does the action involve ground disturbing activities?

- YES (go to #21) NO (go to #22)

21. Has an archaeological inventory or research been completed to determine if there are any archeological resources present?

- YES (go to #22) NO (complete inventory or conduct research, return to #21)

22. In reviewing the undertaking, under the National Historic Preservation Act (NHPA) (for both above and below ground resources), what determination was made by the State ARNG?

- No 106 undertaking; no additional consultation required under NHPA (go to question #27)
 No properties affected (go to #24) **Date of SHPO Concurrence: 19 October 2004**
 No adverse effect (go to #24) **Date of SHPO Concurrence:**
 Adverse effect (go to #23)

23. Has the State ARNG addressed the adverse effect?

- YES (place date of MOA or existing PA and explanation of mitigation in box below, go to #24) NO (go to #30)

23a.

PART B - DECISION ANALYSIS (continued)

24. Per DoDI 4710.02 did the state ARNG determine that tribal consultation was necessary for this project?

- YES (go to #25)
 NO (Provide reason in this block 24a, go to #27)

24a.

25. Did the Tribes express an interest or respond with concerns about the project?

- YES (go to #26) NO (go to #27) **Date of Documentation: 8 December 2010**

26. Has the State ARNG addressed the Tribal concerns?

- YES (place date of MOU or explanation of how State ARNG addressed tribal concerns in box below, go to #27)
 NO (address concerns, return to #26)

Complete only if additional documentation is required in question #26

26a.

27. Does the project involve an unresolved effect on areas having special designation or recognition such as those listed below? For any yes responses go to #30 otherwise go to #28. If any No response is a result of negotiated and/or previously resolved effects please describe resolution in box 27a below.

TYPE	Unresolved Effects?	TYPE	Unresolved Effects?
a. Prime/Unique Farmland	No	e. Wild/Scenic River	No
b. Wilderness Area/National Park	No	f. Coastal Zones	No
c. Sole-Source Aquifer	No	g. 100-year Floodplains	No
d. Wetlands	No	h. National Wildlife Refuges	No

27a.

28. Is this project addressed in a separate EA or EIS review?

- YES (complete table below; go to Part C, Determination) NO (go to #29)

Document Title:	Environmental Assessment of Integrated Natural Resources Management Plan 2005-2010
Lead Agency:	Illinois Army National Guard
Date of Decision Document:	2-May-06

29. Does the project meet at least one of the categorical exclusions listed in 32 CFR 651 App B?

- YES (complete table below; go to Part C, Determination) NO (go to #30)

List primary CAT EX code	
Describe why CAT EX applies	

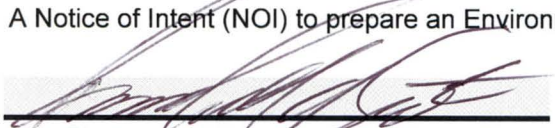
30. At this time your project has not met all the qualifications for using a categorical exclusion under 32 CFR 651. Unless the scope of the project is changed, it will require an Environmental Assessment or possibly an Environmental Impact Statement. If you feel this is in error, please call your NEPA Regional Manager to discuss. If needed, go to Part C Determination.

Additional Information (if needed):

PART C - DETERMINATION

On the basis of this initial evaluation, the following is appropriate:

- IAW 32 CFR 651 Appendix B, the proposed action qualifies for a Categorical Exclusion (CX) that does not require a Record of Environmental Consideration.
- A Record of Environmental Consideration (REC).
- An Environmental Assessment (EA).
- A Notice of Intent (NOI) to prepare an Environmental Impact Statement (EIS).




Signature of Proponent (Requester)

COL Randy Scott

Printed Name of Proponent (Requester)

11 JULY 2013

Date Signed



Environmental Program Manager

Jonathan Casebeer

Printed Name of Env. Program Manager

11 July 2013

Date Signed

Other concurrence (as needed):

Signature

Printed Name

Date Signed

Signature

Printed Name

Date Signed

Signature

Printed Name

Date Signed

Signature

Printed Name

Date Signed

Signature

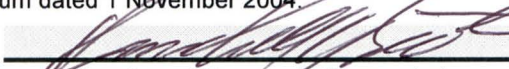

Printed Name

Date Signed

Signature

Printed Name

Date Signed

Enviro Tracking #: FY13-17C80-03	ARNG Record of Environmental Consideration Enter information in the yellow shaded areas.	State ARNG Illinois
1. PROJECT NAME: Update the 2005 Sparta Training Area Integrated Natural Resources Management Plan (INRMP)		
2. PROJECT NUMBER: (MILCON if applicable) N/A	3. DATE PREPARED: 11-Jul-13	
4. START DATE of PROPOSED ACTION (dd-mmm-yy):	1-Aug-13	Note: This must be a future date
5. PROGRAMMED FISCAL YEAR: N/A		
6. END DATE (if applicable): 1-Aug-18		
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8. CHOOSE ONE OF THE FOLLOWING: <input checked="" type="checkbox"/> An existing environmental assessment* adequately covers the scope of this project. Attach FNSI if EA was completed by another federal agency (non-ARNG). EA Date (dd-mmm-yy): 2-May-06 Lead Agency: Illinois Army National Guard <input type="checkbox"/> An existing environmental impact statement* adequately covers the scope of this project. EIS Date (dd-mmm-yy): Lead Agency: <input type="checkbox"/> After reviewing the screening criteria and completing the ARNG environmental checklist, this project qualifies for a Categorical Exclusion Code: See 32 CFR 651 App. B Categorical Exclusion Code: See 32 CFR 651 App. B Categorical Exclusion Code: See 32 CFR 651 App. B <input type="checkbox"/> This project is exempt from NEPA requirements under the provisions of: Cite superseding law:		
<small>*Copies of the referenced EA or EIS can be found in the ARNG Environmental Office within each state.</small>		
9. REMARKS: This updated INRMP is intended to be consistent with the Sikes Act Improvement Act (SAIA) of 1997, 16 US Code (USC) §670a et seq., as amended, Department of Defense Instruction (DoDI) 4715.03, Natural Resources Conservation Program, Army Regulation (AR) 200-1 Environmental Protection and Enhancement, Army National Guard (ARNG) Directorate Environmental Programs Division (ARNG-ILE), Memorandum dated 9 April 2012, Guidance for the Creation, Implementation, Review, Revision and Update of INRMPS, Department of the Army (DA), Memorandum dated 25 May 2006, Guidance for Implementation of the SAIA, and Department of Defense (DoD) Office of the Deputy Under Secretary of Defense (DUSD) Memorandum dated 1 November 2004.		
 Signature of Proponent (Requester)	 Environmental Program Manager	
COL Randy Scott Printed Name of Proponent (Requester)	Jonathan Casebeer Printed Name of Env. Program Manager	
11 JULY 2013 Date Signed	11 July 2013 Date Signed	
Proponent Information:		
10. Proponent: Facilities and Engineering Directorate		
11. Address: 1301 N. MacArthur Blvd., Springfield, Illinois		
12. POC: COL Randy Scott		
13. Comm. Voice: 217-761-3595		
14. Proponent POC e-mail: randy.scott4@us.army.mil		

APPENDIX C

LAWS, REGULATIONS AND EXECUTIVE ORDERS

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CONTENTS

Federal Laws and Regulations	1
State Laws and Regulations.....	4
Department of Defense Regulations and Guidance.....	7
NGIL Regulation 200-13-001 (Sparta Training Area Hunting and Fishing)	8

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LAWS, REGULATIONS, POLICIES, AND EXECUTIVE ORDERS

Federal

American Indian Religious Freedom Act (42 USC §1196) – requires the U.S. to protect and preserve religious rights of the American Indian, Eskimo, Aleut, and Native Hawaiians, including but not limited to access to sites, use and possession of sacred objects, and the freedom to worship through ceremonials and traditional rites.

Animal Damage Control Act (7 USC §426 *et seq.*) – provides broad authority for investigation, demonstrations and control of mammalian predators, rodents and birds.

Environmental Safeguard for Activities for Animal Damage Control on Federal Lands (EO 11870) - restricts the use of chemical toxicants for mammal and bird control.

American Antiquities Act of 1906 (16 USC §431-433) – provides for the protection of items of archeological significance, both historic and prehistoric.

Archeological and Historical Preservation Act of 1974 (16 U.S.C 469 *et seq.*) – provides for the preservation of historical and archeological data (including relics and specimens).

Archeological Resources Protection Act of 1979 (16 USC §470 *et seq.*) – prohibits the excavation or removal from Federal or Indian lands any archeological resources without a permit from the land manager.

Bald Eagle Protection Act (16 USC §668a-d) – prohibits taking or harming bald or golden eagles, their eggs, nests, or young without appropriate permit.

Clean Air Act, as amended (42 USC §7401 *et seq.*) – regulates air emissions from area, stationary, and mobile sources. This law authorizes the USEPA to establish NAAQS to protect public health and the environment.

Clean Water Act (CWA): Section 401 Water Quality Certification, 1986, 33 USC §1341 – requires state certification of federal permits that result in actions that discharge into navigable waters. Under Section 401, states have authority to review federal permits that may result in a discharge to wetlands or water bodies under state jurisdiction.

Clean Water Act (CWA): Section 404, Permits for Dredged or Fill Material, 1977, 33 USC §1344 – establishes a program to regulate the discharge of dredged or fill material into waters of the United States, including wetlands. Activities in waters of the United States regulated under this program include fill for development, water resource projects (such as dams and levees), infrastructure development (such as highways and airports) and mining projects. Section 404 requires a permit before dredged or fill material may be discharged into waters of the United States, unless the activity is exempt from Section 404 regulation (e.g. certain farming and forestry activities).

Endangered Species Act of 1973, as amended (16 USC §1531 *et seq.*) – provides for the identification and protection of threatened and endangered plants and animals and their critical habitats. Requires federal agencies to conserve T/E species and cooperate with State and local authorities to resolve water resources issues in concert with the conservation of T&E species.

Farmland Protection Policy Act (7 CFR 658). The FPPA is intended to minimize the impact Federal programs have on the unnecessary and irreversible conversion of farmland to nonagricultural uses. It assures that—to the extent possible—Federal programs are administered to be compatible with state, local units of government, and private programs and policies to protect farmland. Federal agencies are required to develop and review their policies and procedures to implement the FPPA every two years. For the purpose of FPPA, farmland includes prime farmland, unique farmland, and land of statewide or local importance. Farmland subject to FPPA requirements does not have to be currently used for cropland. It can be forest land, pastureland, cropland, or other land, but not water or urban built-up land.

Federal Insecticide, Fungicide, and Rodenticide Act (7 USC §136) – Governs the use and application of pesticides in natural resource management programs.

Federal Land Policy and Management Act (43 USC §1701) – Establishes public land policy and guidelines for its administration and provides for the management, protection, development, and enhancement of the public lands.

Federal Noxious Weed Act of 1974 (7 USC §2801 et seq.) – Establishes control and eradication of noxious weeds and regulates them in interstate and foreign commerce.

Federal Water Pollution Control Act as amended by the CWA of 1977 (33 USC §1251) – Regulates dredging and filling of wetlands and waterbodies and establishes procedures for identifying and regulating non-point sources of pollutants, including turbidity, into waterways.

Federal Water Pollution Control Act: Section 404, as amended by the CWA of 1977 (33 USC §1251) – Prohibits the discharge of dredged or filled materials into waters of the United States, including wetlands, without first obtaining a permit from USACE. Activities in wetlands that require federal permits include, but are not limited to: placement of fill material; ditching activities when the excavated material is sidecast, mechanized land clearing; land leveling; and most road construction.

Fish and Wildlife Conservation Act (16 USC §2901) – Provides for the protection of non-game fish and wildlife.

Fish and Wildlife Coordination Act (16 USC §661 et seq.) – Provides mechanism for wildlife conservation to receive equal consideration and be coordinated with water-resource development programs.

Floodplain Management (EO 11988) – Requires agencies to assess the effects that their actions may have on floodplains and to consider alternatives to avoid adverse effects and incompatible development on floodplains.

Forest and Rangeland Renewable Resources Planning Act (16 USC §1601 et seq.) – Requires and inventory of potential renewable resources and an evaluation of opportunities for improving their yield on goods and services. Agencies must provide an opportunity for public involvement and consultation with other agencies in establishing policies for multiple use and sustained yield.

Greening the Government through Leadership in Environmental Management (EO 13148) – This EO (Section 207, Environmentally and Economically Beneficial Landscaping) states that “each agency shall strive to promote the sustainable management of Federal facility lands through the implementation of cost-effective, environmentally sound landscaping practices, and programs to reduce adverse impacts to the natural environment.”

Hunting and Fishing on Federal Lands (10 USC §2671 et seq.) – establishes requirements for regulating hunting, fishing, and trapping on military lands.

Indian Sacred Sites (EO 13007) – Provides for the protection of and access to Indian sacred sites.

Invasive Species (EO 13112) – Requires Federal agencies to: “prevent the introduction of invasive species”; “detect and respond rapidly to and control populations of such species in a cost-effective and environmentally sound manner”; “monitor invasive species populations accurately and reliably, provide for restoration of native species and habitat conditions in ecosystems that have been invaded”; “conduct research on invasive species and develop technologies to prevent introduction and provide for environmentally sound control of invasive species”; and “promote public education on invasive species and the means to address them.”

Land and Water Conservation Act of 1965 (16 USC §4601 et seq.) – assists in preserving, developing, and assuring accessibility to outdoor recreation resources.

Legacy Resource Protection Program Act (P.L. 101-511) – established a program for the stewardship of biological, geophysical, cultural and historic resources on DoD lands.

Migratory Bird Conservation Act (16 USC §715 et seq.) – Establishes a Migratory Bird Conservation Commission to approve areas recommended by the Secretary of the Interior for acquisition with Migratory Bird Conservation Funds.

Migratory Bird Treaty Act, as amended (16 USC §703-712) – Prohibits the taking or harming of a migratory bird, its eggs, nests, or young without the appropriate permit.

National Environmental Policy Act of 1969, as amended (42 USC §4321) – Provides a national charter for protection of the environment and requires Federal agencies to prepare a statement of environmental impact in advance of each major action that may significantly affect the quality of the human environment.

National Historic Preservation Act of 1966 (16 USC §470 et seq.) – provides for the preservation of historic properties throughout the U.S.

Non-indigenous Aquatic Nuisance Prevention and Control Act of 1990, as amended (16 U.S.C 4701 et seq.) – established a program to prevent the introduction of and to control the spread of introduced aquatic nuisance species and the brown tree snake.

Off Road Vehicle Use on Public Lands (EO 11989) – limits the use of off-road vehicles on federal lands soil, water, or natural resources could be adversely affected.

Oil Pollution Prevention Act of 1990, Public Law 101-380 – Redefines the requirements of the National Contingency Plan to include planning for, rescue of, minimization of injury to, and assessment of damages for injury to fish and wildlife resources.

Outleasing for Grazing and Agriculture on Military Lands (10 USC §2667) – provides for the outleasing of public lands.

Protection and Enhancement of Environmental Quality (EO 11514) – provides for environmental protection of federal lands and enforces requirements of NEPA.

Protection and Enhancement of the Cultural Environment (EO 11593) – supports previous laws and provides for additional protection of cultural resources.

Protection of Wetlands (EO 11990) – requires agencies to take action to minimize the destruction, loss or degradation of wetlands, and to preserve and enhance the beneficial values of wetlands.

Recreational Fisheries (EO 12962) – requires Federal agencies, to the extent practicable and where permitted by law, "to improve the quantity, function, sustainable productivity, and distribution of U.S. aquatic resources for increased recreational fishing opportunities".

Sale of Certain Interests in Land, Logs (10 USC §2665) – Authorizes the sale of forest products and the reimbursement of the costs of managing forest resources for timber production.

Sikes Act "Conservation Programs on Military Reservations" (16 USC §670a et seq.) – Requires Federal military installations with adequate wildlife habitat to implement cooperative agreements with other agencies and develop long-range integrated natural resources management plans. Thereby, it is appropriate to manage natural resources for multipurpose uses and provide the public access to those uses to the extent consistent with the military mission. The act also sets guidelines for the collection of fees for the use of natural resources such as hunting and fishing.

Soil Conservation Act (16 USC §590a et seq.) – provides for soil conservation practices on Federal lands.

State

Illinois Water Quality Standards (35 IAC 302). Water quality standards applicable to lakes and streams.

- Subpart A: General water quality provisions
- Subpart B: General use water quality standards
- Subpart C: Public and food processing water supply
- Subpart D: Secondary contact and indigenous aquatic life standards
- Subpart E: Lake Michigan Basin water quality standards
- Subpart F: Procedures for determining water quality criteria

Environmental Protection Act (415 ILCS 5/). The purpose of this act is "to establish a unified, state-wide program supplemented by private remedies, to restore, protect and enhance the quality of the environment, and to assure that adverse effects upon the environment are fully considered and borne by those who cause them."

Fish and Aquatic Life Code (515 ILCS 5/) provides protection for all fish, reptiles, amphibians, crayfish, and mussels

Flood Control Act of 1945 (615 ILCS 15/). This act recognizes the destructive nature of floods on industry, agriculture, and life in general. It gives the Department of Natural Resources authorization to examine, prepare plans, construct, and supervise construction, maintenance, and all operations concerning the control of floods.

Illinois Conservation Enhancement Act (505 ILCS 35/). This act created both the Save Illinois Topsoil Program and the Illinois Natural Resource Enhancement Program. "It is the purpose of this Act that certain marginal agricultural land be kept or taken out of crop production or pasture to protect soil and water quality and to protect and support fish and wildlife habitat."

Illinois Endangered Species Protection Act (520 ILCS 10/) requires the protection of animals and plants listed by the Endangered Species Protection Board as endangered or threatened

Illinois Exotic Weed Act (525 ILCS 10/). This law prohibits the distribution of seeds or plant parts from plants not native to North America without a permit issued by the Department of Natural Resources. Species designated in Section 3 of this Act include: Japanese honeysuckle (*Lonicera japonica*), multiflora rose (*Rosa multiflora*), purple loosestrife (*Lythrum salicaria*), common buckthorn (*Rhamnus cathartica*), glossy buckthorn (*Rhamnus frangula*), saw-toothed buckthorn (*Rhamnus arguta*), dahurian buckthorn (*Rhamnus davurica*), Japanese buckthorn (*Rhamnus japonica*), Chinese buckthorn (*Rhamnus utilis*), and kudzu (*Pueraria lobata*) are hereby designated exotic weeds.

Illinois Forestry Development Act (525 ILCS 15/) establishes policy for acceptable forestry management practices that can include site preparation, planting, weed and pest control, fire control, and all other practices deemed by the Department of Natural Resources.

The Illinois Interagency Wetlands Policy Act of 1989. This act established the IDNR as the direct regulatory authority over wetlands in Illinois. Peripheral authority is provided in the Rivers, Lakes, and Streams Act which provides the Department with regulatory authority over activities in floodplains.

Illinois Lake Management Program Act (525 ILCS 25/) requires the state to develop lake management strategies that address all potential causes of lake degradation.

Illinois Natural Areas Preservation Act (525 ILCS 30/17). This act requires the State of Illinois to preserve natural lands and waters and the plants and animals living in these natural communities for both present and future generations.

Insect Pest and Plant Disease Act (505 ILCS 90/). This act prevents the “introduction into and the dissemination within this State of insect pests and plant diseases and to provide for their repression and control.”

Illinois Pesticide Act (415 ILCS 60). This act deals with licensing, record keeping, permits, application, and registration of pesticides in Illinois.

Illinois Pollution Prevention Act (415 ILCS 115/). “It is the purpose of this Act (i) to reduce the disposal and release of toxic or hazardous materials, (ii) to promote pollution prevention as the preferred means for achieving compliance with environmental laws and regulations, (iii) to establish State programs that provide high-level attention to pollution prevention policy initiatives, (iv) to integrate existing regulatory programs to promote pollution prevention, and (v) to stimulate pollution prevention strategies by industry.”

Illinois Open Burning. Pursuant to 415 ILCS 5/9(c), the Illinois Pollution Control Board (Board) and the Illinois Environmental Protection Agency (Illinois EPA or Agency) regulate open burning.

Illinois Prescribed Burning Act (525 ILCS 37). Allows for the prescribed burning of certain land under specified circumstances when approved by a certified prescribed burn manager. Provides that no property owner or his agent, conducting a prescribed burn pursuant to the requirements of the Act, shall be liable for damage or injury caused by fire or resulting smoke, unless gross negligence is proven or unless conducted without the approval of a prescribed burn manager. Provides that the Department of Natural Resources, in consultation with the Office of the State Fire Marshall, shall promulgate rules to implement the Act. Provides that nothing in the Act shall be construed as requiring certification as a prescribed burn manager to conduct prescribed burning on one's own property or on the lands of another with the landowner's permission.

Illinois Seed Law (505 ILCS 110/). This act regulates “the labeling, sale, offering, exposing or transporting for sale of agricultural, vegetable and other seeds; to prevent misrepresentation.”

Rivers, Lakes, and Streams Act (615 ILCS 5/). This act gives the Department of Natural Resources jurisdiction and supervision over all rivers and lakes within the State of Illinois.

Soil and Water Conservation Districts Act (70 ILCS 405/). “Declaration of policy. The General Assembly declares it to be in the public interest to provide (a) for the conservation of the soil, soil resources, water and water resources of this State, (b) for the control and prevention of soil erosion, (c) for the prevention of air and water pollution, and (d) for the prevention of erosion, floodwater and sediment damages, and thereby to conserve natural resources, control floods, prevent impairment of dams and reservoirs, assist in maintaining the navigability of rivers and harbors, conserve wild life and forests, protect the tax base, protect public lands, and protect and promote the health, safety and general welfare of the people of this State.”

Water Pollutant Discharge Act (415 ILCS 25/). “It is hereby declared that it is the public policy of the State of Illinois that there should be no discharges of oil or other pollutants into or upon any waters which are or may be used for the purposes of providing a water supply for any city, town or village, or for purposes of recreation or navigation and that those persons responsible for such discharges shall bear the costs of removal.”

Watershed Improvement Act (505 ILCS 140/) provides policy for the protection of Illinois watersheds and authorizes the Department of Agriculture to enter into any agreements with all federal, state, and local organizations in order to maintain and improve any approved watershed in the State.

Water Use Act of 1983 (525 ILCS 45/). The policy of this act is to better conserve and manage water.

Wildlife Code (520 ILCS 5/) governs the conservation, distribution, introduction and restoration of birds and mammals in the State of Illinois.

DoD Regulations and Guidance

32 CFR 651	Environmental Effects of Army Actions
32 CFR 190	Appendix-Integrated Natural Resources Management
AR 200-1	Environmental Protection and Enhancement
AR 210-9	Use of Off-Road Vehicles on Army Lands
AR 315-19	The Army Sustainable Range Program
AR 405-80	Granting Use of Real Estate
AR 420-40	Historic Preservation
AR 420-76	Pest Management
DoDI 4150.7M	DoD Pest Management Training and Certification
DoDI 4150.7P	DoD Plan for the Certification of Pesticide Applicators
DoDI 4715.03	Environmental Conservation Program
TC 25-1	Training Land
TM 5-630	Land Management
TM 5-631	Forest Management
TM 5-633	Fish and Wildlife Management

DoD and Army Memorandums

ARNG-ILE Memorandum, Guidance for the Creation, Implementation, Review, Revision and Update of INRMPs, dated 9 April 2012, is intended to supplement the SAIA and AR 200-1 and supersede all previous ARNG INRMP guidance.

DA Memorandum, *Guidance for Implementation of the SAIA*, dated 25 May 2006, establishes guidance for implementing existing DoD SAIA guidance on Army lands.

DoD DUSD Memorandum, *Supplemental Guidance concerning INRMP Reviews*, dated 1 November 2004, identifies the DoD policies and procedures concerning natural resources management and INRMP reviews, public comment, and endangered species consultation.

US Army Policy, Army Goals and Implementing Guidance for Natural Resources Planning Level Surveys (PLS) and INRMP (“Army INRMP Policy”); 21 March 1997;

Environmental

**Sparta Training
Area Hunting and
Fishing Regulation**

DRAFT

Headquarters
Illinois Army National Guard
Springfield, IL
01 March 2013

UNCLASSIFIED

Headquarters
Illinois Army National Guard
Springfield, IL 62702-2317

*NGIL Regulation **200-13-001**

Effective 01 March 2013

ENVIRONMENTAL

Sparta Training Area Hunting and Fishing Regulation

By Order of the Adjutant General
of Illinois:

DANIEL M. KRUMREI
MG, ILARNG
The Adjutant General

Official:

RANDALL J. SCOTT
COL, EN, ILARNG
Construction and Facilities
Management Officer

Applicability. It applies to all persons hunting, fishing, or trapping on the Sparta Training Area.

Proponent and exception authority.

The proponent for this NGIL Regulation is the ILARNG Environmental Branch (NGIL-CFM-EV). All requests for exception to the policies or procedures will be submitted in writing to NGIL-CFM-EV for review, approval or further processing to Higher HQ.

Supplementation. Issues of supplements to this regulation by subordinate commanders are prohibited unless specifically approved by Headquarters Illinois Army National Guard.

Suggested Improvements. Users are invited to submit comments and suggested improvements on DA Form 2028 (Recommended Changes to Publications and Blank Forms) directly to the individual proponent who published the regulation or form.

Distribution. This publication is open for public release and is available in hard copy or electronic media via the internet. It is intended for all persons utilizing the Sparta Training Area.

History. This is first publication of this regulation.

Summary. This regulation sets forth the rules and guidelines for hunting, fishing ,and trapping within the boundaries of the Sparta Training Area.

Contents (Listed by paragraph and page number)

Chapter 1

Introduction, page 1

Purpose • 1-1, page 1

References • 1-2, page 1

Contents—Continued

Chapter 2

Permits and Fees, page 1

Permits • 2-1, page 1

Fees • 2-2, page 1

Chapter 3

Use and Entry, page

Designated Areas • 3-1, page 1

Personally Owned Vehicles • 3-3, page 1

Communications • 3-4, page 1

Chapter 4

Fishing, page 1

Fishing Exceptions • 4-1, page 1

Chapter 5

Hunting, page 1

Hunting Exceptions • 5-1, page 1

Chapter 6

Trapping, page 1

Trapping Exceptions • 6-1, page 1

Chapter 7

Safety, page 1

Firearm Safety • 7-1, page 1

Chapter 8

Seizure, Revocation, and Administrative Due Process, page 1

Seizure • 8-1, page 1

Revocation • 8-2, page 1

Administrative Due Process • 8-3, page 1

Appendixes

A. References

B. Sparta Training Area (STA) Hunting and Fishing Permit Application

Chapter 1 Introduction

1-1. Purpose

This regulation establishes the rules and regulations governing hunting, fishing, and trapping within the boundaries of the Sparta Training Area (STA). The provisions of 520 ILCS 5/ Illinois Wildlife Code and 515 ILCS 5/ Illinois Fish and Aquatic Code are applicable to the installation.

a. Any person, military or civilian, who violates any provisions of law or regulation pertaining to hunting, fishing, and trapping applicable to this installation will be subject to prosecution in the Illinois District Court. Military personnel on Title 10 orders will be subject to the uniform Code of Military Justice. Military personnel under Title 32 or State Active Duty will be subject to the Military Code of Illinois.

1-2. References

Required and related publications and prescribed and referenced forms are listed in appendix A.

Chapter 2 Permits and Fees.

2-1. Permit Requirements.

a. Persons hunting, fishing, or trapping on STA must possess the applicable State of Illinois license, tags, permits, or stamp.

b. STA hunting and fishing permits are available to all current and 20 year retired military members and their dependants in possession of a valid military identification card and to employees of the Illinois Department of Military Affairs.

c. STA hunting, fishing, and trapping permits, along with the applicable Illinois permits/licenses, are required on the STA. STA permits are issued on an annual basis. Annual Permits are valid from April 1 through March 31 the following year for which they are issued. Permits are issued by the STA Natural Resource Manager, located in the STA Headquarters Building.

d. The acceptance of a permit shall constitute an acknowledgement by the permit holder of his/her duty to comply with the provisions of this regulation, and all permits are conditioned upon such compliance. NGIL-CFM-EV will receive application for permit (see Appendix B) review approve/deny and issue all permits. NGIL-CFM-EV is the approving authority for all permits. Approved permits will be forwarded to Range Control for incorporation into the STA access roster.

e. Persons born on or after 1 January 1980, including fulltime active duty personnel, are required to pass a Hunter Safety Education Course before being issued a STA hunting permit.

f. Permits or special stamps for the taking of wildlife or fish may be issued only to an individual and may be used only by the individual to whom issued. No permit or special stamp may be loaned, predated, falsified, altered, or misrepresented in any manner.

2-2. Fees.

Currently, STA hunting and fishing permits are free of charge.

Chapter 3 Use and Entry.

3-1. Designated Areas.

a. Military training has precedence over hunting and fishing activities. Therefore, persons planning to hunt or fish at STA should have alternative locations available if scheduling conflicts occur.

b. Those portions of STA available for hunting and fishing are shown on the current STA Hunting and Fishing Map available at the STA Headquarters Building. All personnel going into the field must be thoroughly familiar with the boundaries and limitations shown on this map.

c. Areas not needed for training and open to hunting and fishing will be determined by STA Range Control. Entry into areas not opened to hunting and fishing are prohibited.

d. Because training schedules may change on a daily basis, information concerning areas open and closed to hunting and fishing must be confirmed daily at Range Control located at the STA Headquarters Building prior to check in.

e. To be issued the STA Day Access Pass persons must physically check in at STA Range Control. Sign-in must be completed on the same day access is desired. Persons may request two areas as long as the areas are adjacent and open at the same time. One copy of the STA Day Access Pass must be placed in the vehicle windshield and the user must carry a copy. Upon completion of their activity, the user must physically visit Range Control to check out of the area.

f. Persons who have already obtained the STA Access Pass for that day may park at a Remote Access Control Point to enter/exit the installation on foot and must provide appropriate identification and permits upon request of the STA personnel, Sparta Police, or Illinois Conservation Police officers.

g. The destruction, cutting, digging, or removal of any vegetation, except edible wild greens, mushrooms, berries, or other wild fruits for personal consumption, is prohibited.

3-2. Personally Owned Vehicles.

No personally owned vehicles (POV) to include ATVs are authorized within the boundaries of STA. Vehicles will only be parked in designated access areas.

3-3. Personally Owned Watercraft.

No privately own boats or recreational watercraft are authorized on STA impoundments.

3-4. Communications.

Persons hunting or fishing at STA will maintain a means of communication with Range Control ie. cell phone.

Chapter 4 Fishing.

4-1. Fishing Exceptions.

a. Fishing rules are as specified in the Illinois Fish and Aquatic Code with the following exceptions imposed at STA:

- (1) Fishing methods, other than the use of pole and line with lure or bait, are prohibited. A person may use no more than two [2] poles at any time and they must be attended at all times.
- (2) Natural bait and artificial lures are acceptable. Netting or trapping of live bait from STA waters is prohibited. Disposing of unused live bait in STA waters is prohibited.
- (3) The fish species, size, and daily creel limits are posted at each lake.
- (4) The taking of frogs and crayfish is prohibited.

- (5) Any person fishing at any STA body of water open for fishing must remain within 150 feet of the shoreline, or designated access trails, roads or parking areas associated with the body of water. Any person at any body of water open for fishing must leave the area immediately upon the request of STA Range Control, Conservation Police Officer, or Sparta Police Officer.
- (6) Fishing is prohibited where designated by signs.

Chapter 5 Hunting.

5-1. Hunting Exceptions.

- a. Hunting rules are specified in the Illinois Wildlife Code with the following exceptions:
 - (1) Only whitetail deer hunting is authorized at STA during shotgun, muzzle loading, and handgun seasons.
 - (2) The maximum number of deer hunting permits issued for the STA deer hunting season will be determined by the STA Natural Resource Manager.
 - (3) If more requests for deer permits exceed the maximum number of deer permits available a lottery will be held to determine recipients of available deer permits.
 - (4) Currently the taking of game other than whitetail deer is prohibited at STA. The STA natural resource manager may announce special hunt periods for other game species as wildlife management objectives are met.
 - (5) Only portable tree stands are permitted on STA. Unidentified stands will be removed and turned over to the proper authority. Unattended stands must be labeled with the name and address of owner and be removed by close of the season. STA is not responsible for lost of any unattended stands.
 - (6) Authorized Weapons and Registration. Authorized weapons and caliber of projectiles are indicated in the Illinois Wildlife Code. All hunters must comply with State of Illinois firearm codes when possessing a privately owned firearm on STA.

Chapter 6 Trapping.

6-1. Trapping Exceptions.

Trapping is prohibited within the boundary of STA except with special permit of the STA Natural Resource Manager.

Chapter 7 Safety.

7-1. Firearm Safety.

- a. Loaded firearms are prohibited, except in authorized hunting areas on STA per NGIL Regulation 350-12. Firearms will be unloaded when placed or carried in or on a motor vehicle. A round in the chamber or in a loaded magazine constitutes a “loaded” firearm. Removal of the cap or powder from the pan constitutes “unloaded” for muzzle loading firearms.
- b. Carrying a loaded firearm, or other hunting device, within 100 feet of any building or all weather road edge or discharging any firearm so that the projectile enters through this zone, is prohibited.
- c. Shooting at overhead utility lines, or any part thereof, or at any wildlife upon or near any part of the overhead utility line is prohibited.

- d. Weapons will not be discharged in any manner which may put any person or property in danger of injury or damage i.e. shooting over a hill, onto adjacent private property, etc.
- e. Weapons will not be discharged over or into water or ice.

Chapter 8

Seizure, Revocation and Administrative Due Process.

8-1. Seizure.

- a. All firearms or other equipment of whatever kind, nature, or description used by any persons within this installation in violation of law or regulations pertaining to hunting and fishing may be seized as evidence by military police or appropriate civilian law enforcement officers and held in custody pending the prosecution of any such violator. When final action is taken in each case, the seized item or items shall be returned to the person from which they were seized unless such item or items are otherwise declared illegal.
- b. Any person who violates any provisions of law or regulation pertaining to hunting and fishing applicable to this installation shall have his or her Sparta Training Area hunting and/or fishing permit seized at time of apprehension. When final action is taken on each case, the seized hunting/fishing permit shall be returned to the person from whom they were seized unless otherwise revoked.

8-2. Revocation.

- a. Any person found guilty of violation of law or regulation pertaining to hunting and fishing, within this installation, may have his or her permit privileges revoked by the Training Site Commander or designee.
- b. The following minimum penalties apply for failure to comply with established area access procedures and are in addition to any criminal and/or military disciplinary action:
 - (1) 1st Offense. Written Warning.
 - (2) 2nd Offense. Suspension of hunting/fishing privileges for 1 year.
 - (3) Hunting/fishing while under suspension will result in a minimum of an automatic 3-year suspension and citation for trespass by Illinois Conservation Police.

8-3. Administrative Due Process.

- a. The person whose privileges have been revoked will have the right to appeal or request reconsideration. Such requests must be forwarded to the Training Site Supervisor, within seven working days from the date the individual is notified of the revocation action. The revocation action will remain in effect pending a final ruling on the request.
- b. Appeals will be determined by a hearing officer in an administrative hearing. The hearing officer will be a Field Grade Officer appointed by the Adjutant General.
- c. Only one of two recommendations may be made in evaluating revocations: Permit may be revoked, or not be revoked. The basis for either recommendation will be fully detailed in the report of the hearing officer.

Appendix A
References

AR 200-1
Environmental Protection and Enhancement

DMAIL 350-12
Sparta Training Area

10 U.S.C. 47
Uniform Code of Military Justice

20 ILCS 1805
Military Code of Illinois

Wildlife/Fish and Aquatic Code, State of Illinois.

Sparta Training Area Integrated Natural Resource Management Plan

DRAFT

Appendix B

Sparta Training Area (STA) Hunting and Fishing Permit Application

Applicant's information:

Name _____ Date of Birth _____

Address _____

City _____ State _____

Phone _____ email _____

Unit (if applicable) _____

Firearm owner's I.D. (F.O.I.D.) card number _____
(Illinois Residents only)

IDNR License(s) Number:

Hunting _____

Fishing _____

Sportsman Combination Hunting and Fishing _____

Non-Resident Permit _____
(Non-Illinois Residents only)

*With my signature below I acknowledge that I have read and understand the **NGIL 200-13-001 Sparta Training Area Hunting and Fishing Regulation** and agree to adhere to all regulatory provisions. I also understand that any person, military or civilian, who violates any provisions of law or regulation pertaining to hunting, fishing, and trapping applicable to this installation will be subject to prosecution in the Illinois District Court. Military personnel on Title 10 orders will be subject to the Uniform Code of Military Justice. Military personnel under Title 32 or State Active Duty will be subject to the Military Code of Illinois.*

Signature _____ Date _____

Submit completed application, photocopy of military ID/DMAIL ID, and photocopy of Hunter Education Course Certificate* or prior year permit to STA Natural Resource Manager. Upon approval applicants name will be added to STA Range Control Hunting and Fishing access roster.

* Applies to hunters born on or after January 1, 1980.

APPENDIX D

INTEGRATED WILDLAND FIRE MANAGEMENT PLAN

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ILLINOIS DEPARTMENT OF MILITARY AFFAIRS

Sparta Training Area(STA) Integrated Wildland Fire Management Plan (IWFMP)

October 2012

Prepared By: Anthony Janas, STA Natural Resource Manager
Reviewed By: Jonathan Casebeer, Environmental Branch Chief DMAIL
Amended By: Charles Ruffner, Ph.D. Professor of Forestry-SIUC

EXECUTIVE SUMMARY

In accordance with Army Regulation 200-1 *Environmental Protection and Enhancement* an Integrated Wildland Fire Management Plan (IWFMP) is required for Army installations with unimproved grounds that present a wildfire hazard and/or installations that utilize prescribed burns as a land management tool. The Integrated Wildland Fire Management Plan has been developed to meet the land stewardship requirements outlined in the Sparta Training Area (STA) Integrated Natural Resource Management Plan (INRMP) and the fire protection requirements for the ILARNG while maintaining the training site and the military training mission. This plan describes the procedures and protocols for wildfire suppression on ILARNG lands and is included as appendix D to the 2012 STA INRMP.

REFERENCES

Anderson, H. 1982. Aids to Determining Fuel Models for Predicting Fire Behavior. USDA Forest Service, Intermountain Research Station, GTR-INT122. 28 pp.

Army Regulation 200-1 *Environmental Protection and Enhancement* 13 December 2007

NGIL Regulation 350-12 *Training Sparta Training Area*, 1 October 2008

National Interagency Incident Management System *Wildland Fire Qualification System Guide*, PMS 310-1, June 2009.

17 Illinois Administration Code, Chapter I, Section 1565, *Illinois Prescribed Burning Act*, November 2, 2009

(525 ILCS 37/) *Illinois Prescribed Burning Act*, August 13, 2007

National Wildfire Coordinating Group, *Prescribed Fire Complexity Rating System Guide*, PMS-424/NFES-2474, January 2004

2005-2010 Integrated Natural Resource Management Plan for the Sparta Training Area, September 2005

Natural Resource Management Plan for the Sparta Training Area (update), October 2012

TABLE OF CONTENTS

EXECUTIVE SUMMARY	1
REFERENCES	2
LIST OF ABBREVIATIONS	5
CHAPTER 1 – WILDLAND FIRE MANAGEMENT	
1.1. Goals and Objectives	6
1.2. Location	7
1.3. Organizational Structure	9
1.4. Organizational Responsibilities	9
1.5. Interagency Cooperation and Mutual Aid Agreements	10
1.6. Smoke Management and Air Quality	10
1.7. Safety and Emergency Operations	10
1.8. Risk Assessment	12
1.9. Wildland Fire History	12
1.10 Fire Management Units	12
1.11 Wildland Fuel Factors	12
1.12 Natural and Cultural Resource Considerations	13
1.13 Mission Considerations	13
1.14 Military Training Restrictions	14
1.15 Monitoring Requirements	14
1.16 Public Relations	14
1.17 Funding Requirements	14
1.18 Personnel Training and Certification Standards and Records	15
1.19 Physical Fitness Standards	15
1.20 Equipment	15
1.21 Environmental Assessment	15
CHAPTER 2 – WILDLAND FIRE	
2.1. Suppression and Prevention	16
2.2. Detection Procedures	16
2.3. Dispatch Procedures	16
2.4. Communication Plan	16
2.5. Rehabilitation Procedures	16
2.6. Records, Reports, and Monitoring	17

CHAPTER 3 – PRESCRIBED FIRE MANAGEMENT

3.1. Prescribed Fires	18
3.2. Constraints	18
3.3. Site specific burn plans	18
3.4. Monitoring	18
3.5 Use of Fire Breaks	19

FIGURES

Figure 1: STA Prescribed Burn Unit Map	8
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APPENDICES

Appendix A: IEPA Open Burn Permit Application	21
Appendix B: NWCG Prescribed Fire Go/NO-GO Checklist PMS 421	25
Appendix C: Burn Unit Plan Format	26
Appendix D: STA Prescribed Burn Unit Maps	32

LIST OF ABBREVIATIONS

BU – Burn Unit
DMAIL – Department of Military Affairs Illinois
DoDI – Department of Defense Instruction
FFT1 – Fire Fighter Level 1
FFT2 – Fire Fighter Level 2
FM – Frequency Modulation
FONSI – Finding of No Significant Impact
GIS – Geographic Information System
HEMTT – Heavy Expanded Mobility Tactical Truck
IDNR – Illinois Department of Natural Resources
IEPA – Illinois Environmental Protection Agency
ILARNG – Illinois Army National Guard
INRMP – Integrated Natural Resource Management Plan
IWFMP – Integrated Wildland Fire Management Plan
MHz – Megahertz
NEPA – National Environmental Protection Act
NFES – National Fire Equipment System
NFIRS – National Fire Incident Reporting System
NFPA - National Fire Protection Association
NGIL- National Guard Illinois
NIIMS – National Interagency Incident Management System
NWCG – National Wildfire Coordinating Group
OBP – Open Burn permit
OIC – Officer in Charge
PMS – Product Management System
POTO – Planning, Operations, and Training Office
PPE – Personal Protection Equipment
RXB – Prescribed Burn Boss
STA – Sparta Training Area
STEP – Status Tool for the Environmental Program
TAG – The Adjutant General
UXO – Unexploded Ordinance

CHAPTER 1: WILDLAND FIRE MANAGEMENT

1.1 GOALS AND OBJECTIVES

The primary goal of this plan is to allow for the continued use of STA as a military training site through the control of wildfires and application of prescribed fire to develop habitat types that foster viable training areas for users of the site. This plan will lay out the methods and protocols necessary to control fire frequency, intensity, and size on STA lands and maintain the ecologic integrity of the ecosystem in order to comply with federal and state laws and meet STA's land stewardship responsibilities. The plan will provide for firefighter and public safety and allow continuation of training necessary for the STA and other military and civilian units to maintain a high level of combat readiness and training quality. The general objectives outlined below are discussed in more detail in the STA INRMP.

General Objectives

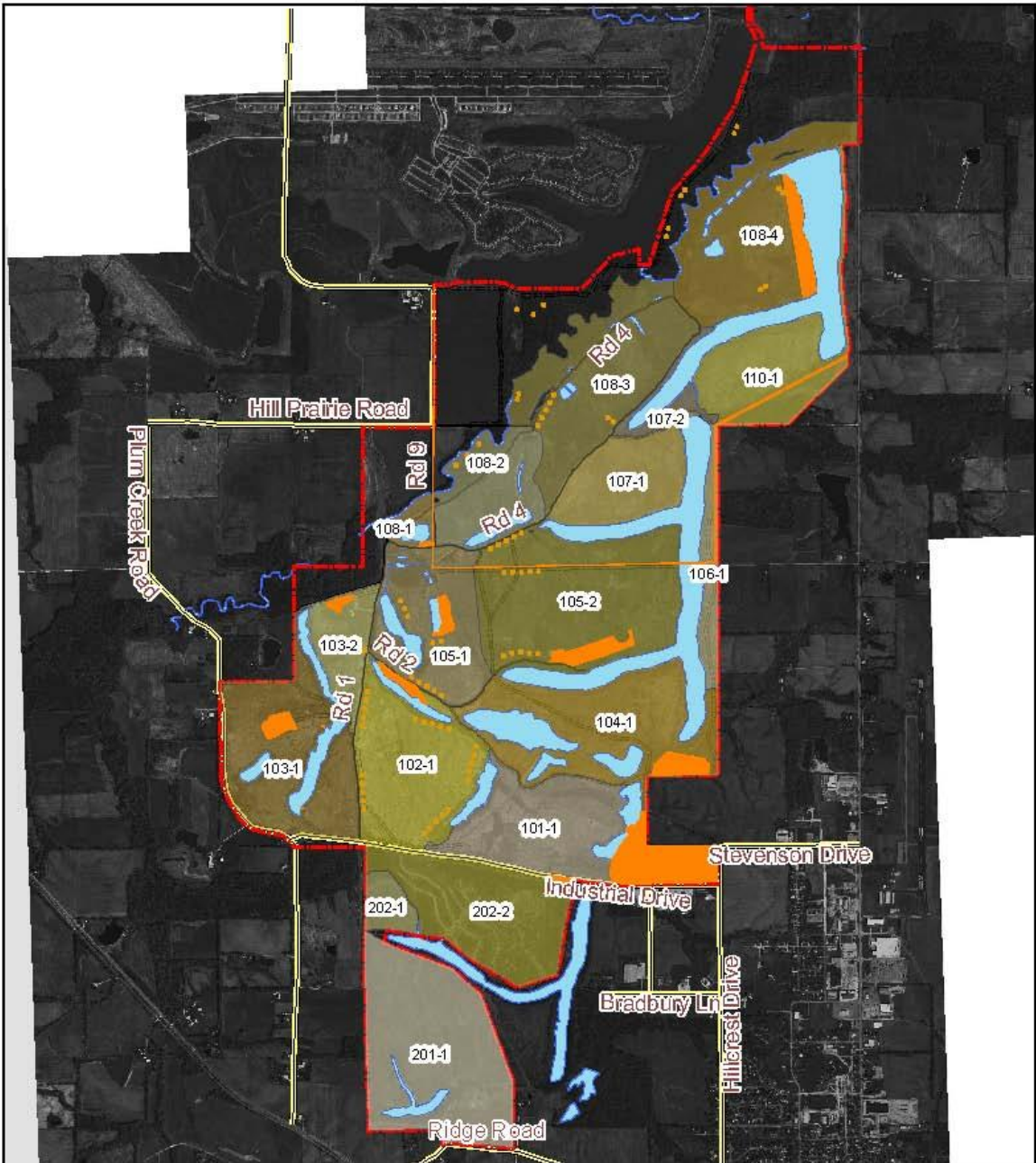
- 1) Firefighter and public safety is the first priority of the wildland fire management program.
- 2) Ensure that fire related activities support the military mission. This includes training site development and operations to utilize the benefits of prescribed fire to military training.
- 3) Protect natural and cultural resources as can be done safely. Integrate wildland fire management with the INRMP's and other land management goals and plans.
- 4) Establish a prescribed burn program that addresses both the ecological and land management fire needs. Maintain ILARNG prescribed burn activities through training crews and gaining experience necessary for the completion of the NWCG task books.
- 5) Base fire management activities on the best available science.
- 6) Reduce the wildfire risk to the surrounding community and incorporate public health and environmental quality considerations into fire management planning and execution.
- 7) Coordinate and cooperate where possible and beneficial with federal, state and local agencies.
- 8) Determine resource requirements and availability at each organizational level to provide needed suppression and support.
- 9) Reduce or eliminate firebreak impacts to vegetation, soils, aesthetics and other natural and cultural resources.
- 10) Continually evaluate the fire management program and make improvements as necessary to meet policy and procedural requirements.

Specific Objectives

- 1) Ensure zero wildland or prescribed fire related serious injuries or deaths through incorporation of risk management into all prescribed fire planning and implementation.
- 2) Ensure military training is not hindered by fire related activities where possible.
- 3) Through a combination of mechanical means and prescribed burning, maintain training sites and maneuver areas to maximize military training opportunities while minimizing environmental impacts and promoting environmental stewardship. Approximately 300-500 acres per year burned is the current goal amounting to between 10-15% of the land area comprising STA.
- 4) Establish and maintain fire control through the use of firebreaks with minimal environmental impact. Design firebreaks based on fuel type, fuel arrangement and access for maximum fire control and minimum impact.
- 5) Reduce ignitions caused by military training activities by encouraging their use in areas that have minimal risk of fire starts or limiting fire related activities when the fire danger is high.
- 6) Adopt the NWCG standards for firefighting and prescribed fire qualifications for ILARNG personnel and require satisfactory completion of training for the level of participation expected on a prescribed fire or wildland fire event.
- 7) Fires will be suppressed at minimum cost while considering firefighter and public safety and resources to be protected.

1.2 LOCATION

Sparta Training Area (STA) is a 2,642-acre reclaimed coal strip mining site. STA is located approximately 45 miles from St. Louis, Missouri within Sparta Township, Randolph County, Illinois. The STA is comprised of agricultural land (row crop and hay production), grassland, and forested areas. The site encompasses 15 manmade lakes and one natural waterway, Plum Creek, which flows through the northwest portion of the site. The lakes, creek, and existing road networks have been used to divide the site into 18 prescribed burn units. See STA Prescribed Burn Unit Map, Figure 1. Agricultural land is the predominant land use that surrounds the STA property boundaries.

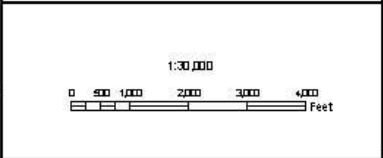


Legend

- STA Boundary
- No Burn Area
- land_navigation_course
- Main Transportation Artery
- Secondary transportation
- Unpaved trails
- Lakes/Ponds



Figure 1
STA Prescribed Burn
Unit Map



No Warranty is made by the ILARMO as to the accuracy, reliability, or completeness of these data for individual use or aggregate use with other data. The map is a "living document", its data is updated as changes in new data become available and is not guaranteed by the Esri/ARC/INFO GIS database.

Map: Projeccao NAD 1983 UTM Zone 18Y
Aug 2011



1.3 ORGANIZATIONAL STRUCTURE

Installation Commander - The Adjutant General (TAG) of Illinois Army National Guard (ILARNG)

Wildland Fire Program Manager - ILARNG Environmental Branch Chief

Installation Wildland Fire Manager – STA Natural Resource Manager

Prescribed Fire Burn Boss (RXB)* – Position requires certification by the Illinois Department of Natural Resources (IDNR)

Firefighter Type 1(FFT1)*

Firefighter Type 2 (FFT2)*

Military Personnel

Range Control

* Position Qualification per PMS 310-1.

1.4 ORGANIZATIONAL RESPONSIBILITIES

Installation Commander: defines the roles and responsibilities for wildland fire management on the installation, plans and programs resources, and will designate an installation Wildland Fire Program Manager in either the Fire and Emergency Services or Natural Resources organization. Approves the installation IWFMP, Assures the maintenance of training records (e.g., through the Civilian Personnel Office, Wildland Fire Program Manager, or Fire Chief), Approves the deployment of Army civilian firefighters to any off installation incident.

Wildland Fire Program Manager: develops the IWFMP; reviews and approves burn plans for prescribed fires to ensure consistency with the IWFMP, the INRMP, and other applicable operating instructions such as state and local regulations.

Installation Wildland Fire Manager: prepares and/or updates prescribe burn plans as required and submits to Wildland Fire Program Manager for review, obtains applicable burn permits, maintains public notification lists and media announcements, oversees maintenance of firefighting equipment, coordinates with local fire departments for mutual aid agreements, maintains prescribed burn personnel training and burn record documentation, de-conflicts prescribed burn dates with installation training scheduling staff.

Prescribed Burn Boss (RXB): executes installation's prescribed burn plan under the direction of the Installation Wildland Fire Manager and oversight of Range Control, responsible for all

aspects of the prescribed burn and serves as incident commander, reviews prescribed burn plan with burn personnel and submits proposed changes to the Installation Wildland Fire Manager.

Squad/Crew Boss (FFT1): maintains accountability and safety of all personnel and equipment assign to his/her team, follows the direction of the prescribed burn plan and guidance given by the Prescribed Burn Boss, maintains communication with Prescribed Burn Boss at all times

Firefighter (FFT2): maintains personal protective equipment and firefighting equipment, completes refresher training, understands the prescribed burn plan and works under the direction and supervision of a squad or crew boss.

Military Personnel: responsible for reporting any wildland fire to Range Control, whether caused by training actions or natural phenomena, follow range control direction in responding to a wildland fire.

Range Control: maintains oversight of all activities occurring within the training site, responsible for dispatching a representative to the fire scene to determine need of additional personnel or equipment to control the fire, contacts public fire department as necessary.

1.5 INTERAGENCY COOPERATION AND MUTUAL AID AGREEMENTS

STA has no standing interagency cooperation or mutual aid agreements. STA does update an emergency response information card with the Sparta police and fire department on an annual basis.

1.6 SMOKE MANAGEMENT AND AIR QUALITY

The Illinois Environmental Protection Agency (IEPA) requires an Open Burning Permit (OBP) for all ecological burns conducted in the state of Illinois. STA Wildland Fire Manager is responsible for maintaining a valid OBP for STA on an annual basis. Smoke management and air quality are components of the OBP application and must be addressed appropriately before the OBP is issued by IEPA. Factors which affect smoke management and air quality such as wind direction and speed, weather phenomena, fuel conditions, sensitive areas, and nearby human population are identified and described during the permit application process. All STA prescribe burn plans incorporate smoke management and air quality within their prescription and in accordance with the IEPA OBP. Appendix A: IEPA Open Burn Permit application.

1.7 SAFETY AND EMERGENCY OPERATIONS

STA Range Control has oversight for all activities occurring within STA boundaries. All personnel, whether military or civilian, having access to STA are subject to NGIL Regulation 350-12. This regulation outlines policy and procedures for training safety and emergency operations. Chapter 9-8 of NGIL Regulation 350-12 describes policy and procedures related to fire prevention:

9-8. Fire Prevention

- a. *Warming/cooking fires for the convenience or comfort of troops are not authorized.*
- b. *Any or all grass or forest fires will be reported immediately to Range Control giving the following information:*
 - (1) *Location of the fire (grid coordinate and common landmark directions if possible).*
 - (2) *Number of personnel in the vicinity of the fire, type of equipment in the vicinity of the fire.*
 - (3) *Determination by the OIC on ability of the personnel present to extinguish fire with equipment on hand.*
 - (4) *Status of the fire as situation develops every 15 minutes.*
 - (5) *When the fire has been extinguished.*
- c. *Range Control will dispatch a representative to the scene to determine need for additional personnel or equipment to control the fire, a guide will be posted on the main road or trail leading to the fire to direct fire fighting personnel and/or equipment to the scene.*
- d. *Upon being given clearance to fight the fire, units will extinguish range fires as quickly and safely as possible. At no time will a unit leave a range while fire is present unless otherwise directed by Range Control. This includes smoldering stumps or grass.*
- e. *Range Control will contact area fire departments as necessary.*

Prescribed burns conducted at STA, by Illinois statute, must be conducted by an IDNR certified Prescribed Burn Boss. The Prescribed Burn Boss has full responsibility for the safe execution of a prescribed burn plan. He/she may declare the prescribed burn a wildfire at any time conditions exceed prescription or firefighting resources are not adequate to maintain control of the fire. The Prescribed Burn Boss, as incident commander, has the authority to request additional firefighting support from public fire departments to regain control of the burn. Assigned lookouts or fire team members will notify the Prescribed Burn Boss immediately of escape or spot fires. Only the Prescribed Burn Boss will redirect firefighting assets to extinguish escape or spot fires.

STA has no unexploded ordnance (UXO) producing ranges at this time. No special considerations for UXO are required. STA currently has no ammunition storage or hazardous material storage areas within the burn units.

All personnel participating on a prescribed burn team must wear appropriate fire fighting personal protective equipment (PPE) as required by the National Fire Protection Association (NFPA) 1977 – *Standard on Protective Clothing and Equipment for Wildland Fire Fighting*.

At a minimum this will include:

- Fire resistant blouse
- Fire resistant trouser
- leather boot
- leather gloves
- fire helmet

Appropriate military uniform and PPE are acceptable substitutes.

1.8 RISK ASSESSMENT/DECISION ANALYSIS PROCESSES

The Prescribed Fire Complexity Rating System Guide NWCG PMS-424-NFES-2474 is the prescribed fire risk management tool utilized at STA. An initial assessment of all prescribed burn plans has been completed. The Prescribed Burn Boss will conduct a risk assessment with the firefighting team and complete the NWCG Prescribed Fire GO/NO-GO Checklist PMS 421 prior to conducting a test fire. Appendix B: NWCG Prescribed Fire GO/NO-GO Checklist PMS 421.

1.9 WILDLAND FIRE HISTORY

The ILARNG acquired the STA in April 2004. Due to recent acquisition by the ILARNG and STA's prior land use as a reclaimed strip coal mine there is no long term wildland fire history. There have been a total of nine prescribed burns conducted at STA. In 2006 prescribed burns were conducted in burn units 102, 105, 108-1, and 108-2. In 2007 prescribed burns were conducted in burn units 103 and 107. A wildland/prescribed fire training course conducted by the Illinois Fire Service Institute took place at STA in September of 2009 to demonstrate ignition techniques and mop up procedures. Conditions during that scheduled training did not meet prescription and therefore no large scale burns were conducted. In late winter 2012 prescribe burns were conducted in burn units 107-2, 110-1, and 101-1. Prescribed burns have been limited at STA due to personnel shortages and the State of Illinois implementation of the Illinois Prescribed Burning Act that requires an IDNR Certified Prescribed Burn Boss. Currently the Environmental Branch Manager, and Sparta TS Natural Resource Manger are the only IDNR Certified Prescribed Burn Boss in the Illinois Department of Military Affairs. STA typical prescribed burn season is mid-fall thru early spring. As the site develops live fire ranges and other training facilities, the risk of accidental ignition of wildland fires will increase.

1.10 FIRE MANAGEMENT UNITS

STA is subdivided into 18 burn units utilizing existing road network, lakes, and Plum Creek as manmade and natural fire breaks. The risk of escape fire at STA is low due to these features. See STA Prescribed Burn Unit Map Figure 1.

1.11 WILDLAND FUEL FACTORS

STA burn units consist of two fire behavior fuel models. Fuel behavior fuel model 1 and 3 (grass group) and fuel behavior fuel model 9 (timber group). The majority of STA is fuel model 1 according to the Fuel models developed by Anderson (1982). Each prescribed burn plan further identifies the fuel characteristics associated within each burn unit.

1.12 NATURAL AND CULTURAL RESOURCE CONSIDERATIONS

Reforestation efforts are ongoing at STA. These areas require establishment of control lines prior to conducting prescribed burns to protect these newly planted forest areas. In addition 254 acres

of STA are currently in farm out lease and must be protected from wildland fires and prescribed burn operations. There are no documented cultural resources located at STA.

STA does have one main high tension power transmission line running through several of the burn units. Prior mowing or extreme caution must be taken while conducting burns near the wooden power line poles and other training structures located within STA.

A bat survey conducted in mid-summer 2012 confirmed the presence of the federally endangered Indiana bat within the wooded corridor of the Plum Creek on STA. In addition, there are five state listed threatened and endangered species currently identified at STA. The use of prescribed fire will be avoided between 1 April and 14 October to avoid impacts to ground nesting birds and roosting bats. Furthermore, when wind conditions would result in smoke entering the forested area, avoid burning in the vicinity of forested habitat to prevent impacts to forest and nesting birds and roosting bats. If an unplanned wildland fire occurs on STA during the above listed time period, consult USFWS to determine minimization and mitigation measures to implement to avoid take of Indiana bats.

It is the intent of the wildland fire manager to conduct burns on a three year rotational cycle. This would enable one third of STA to be burned on an annual basis. This frequency of burn will limit build up of undesirable fuels while reducing the spread of invasive plant species.

The installation of dry fire hydrants in several lakes at STA has been identified as a project in the STA INRMP. The installation of these hydrants will provide fire trucks the ability to pump water directly from a lake hydrant quickly and efficiently giving firefighting teams a time saving advantage to water resources.

1.13 MISSION CONSIDERATIONS

Currently, STA is primarily a mounted and dismounted maneuver area. Live fire ranges and other training facility development is in planning stages. All training and training area maintenance activities are coordinated through Range Control. Typically, prescribed burns are conducted in low use periods, early fall/late winter and during normal work week hours. STA usage is higher during the summer annual training months and on weekends when ILARNG units conduct weekend inactive duty training. Prescribed burning therefore has minimal negative impacts to mission training.

Prescribed burns enhance mission training by:

- 1) Reducing population of ticks and other biting insects.
- 2) Reducing undergrowth in dismounted maneuver areas.
- 3) Keeping maneuver areas free of the mobility restrictive invasive species such as autumn olive and black locust.
- 4) Reducing hazardous fuel levels throughout the training site that pose fire risk to soldiers and their equipment.
- 5) Providing real world training opportunities for the 661st and 662nd Firefighting team co-located at STA.

1.14 MILITARY TRAINING RESTRICTIONS

In accordance with NGIL Regulation 350-12 Chapter 8-3, units must coordinate the use of pyrotechnics with STA Range Control to reduce the potential of fire.

1.15 MONITORING REQUIREMENTS

All wildland/prescribed fires conducted at STA will be monitored for the following:

- 1) Safety of all personnel is upheld to the highest degree.
- 2) Projects are implemented in compliance with plan direction, project design, and NEPA compliance.
- 3) Regulations, standard operating procedures, or guidelines are followed.
- 4) Planned goals and objectives are met.
- 5) Emerging issues are being addressed.
- 6) Research and baseline inventory needs are identified.
- 7) Assumptions, relationships, and decisions are valid considering new information or changing conditions.

1.16 PUBLIC RELATIONS

STA has developed a neighbor and agency notification list. A letter of notification is mailed to each property owner whose property adjoins the STA approximately 30 days prior to the burn. Local fire and police departments of nearby communities are also contacted by phone several days in advance of the burn and again on the day of the burn. The Sparta fire department has offered to assist on several past prescribed burns as an opportunity to exercise equipment and maintain training of their personnel.

1.17 FUNDING REQUIREMENTS

Firefighter training and operations are funded through the Directorates of Plans, Operations, Training, and Orders (POTO), Directorate of Facilities and Engineering, and the Environmental Branch. Funding of firefighter training is the responsibility of the owning directorate. Consolidated firefighter training is conducted whenever practical to minimize training expenses and maximize training effectiveness. Prescribed burns are conducted with STA operational staff employees as an assigned additional duty for their respective duty position. Prescribe burn equipment purchases are identified as an ongoing project in the STA INRMP. Environmental funding requests are entered, reviewed, and approved utilizing National Guard Bureau Status Tool for the Environmental Program (STEP). Environmental funding requests for training and equipment purchase and maintenance average approximately \$4000.00 annually.

1.18 PERSONNEL TRAINING AND CERTIFICATION STANDARDS AND RECORDS

The 17 Illinois Administration Code, Chapter I, Section 1565, *Illinois Prescribed Burning Act*, November 2, 2009, see Appendix C, requires the Prescribed Burn Boss to be certified by the IDNR. All firefighting team members participating in a prescribe burn on STA will meet the NIIMS standard of firefighter level 2 (FFT2) at a minimum. Currently the DMAIL Environmental Branch Manager and STA Natural Resource Manager are IDNR certified Prescribed Burn Boss. Several other members of the environmental staff and STA staff are FFT2 trained.

Environmental Branch maintains records of all personnel training certifications and records all members participating on prescribe burns on the DMAIL state server at:

Q:/environmental/conservation/natural resources/ILARNG Prescribed Fire Program

1.19 PHYSICAL FITNESS STANDARDS

DMAIL personnel will only conduct low complexity on installation prescribe fire firefighting. DMAIL personnel are required to meet physical fitness requirements of their daily duty position. The Prescribed Burn Boss will assign firefighting positions based on the appropriate level of physical fitness of each person participating on the firefighting teams.

1.20 EQUIPMENT

STA has limited firefighting equipment that consists primarily of ignition and holding crew equipment such as drip torches, backpack sprayers, hand tools, and PPE. Two 300 gallon trailer and pickup truck mounted water tanks with gasoline power water pump sprayers provide an increased water firefighting capacity. An ATV mounted drip torch is utilized for large ignition operations.

The 661st and 662nd Firefighting teams each have a M1142 HEMTT Tactical Fire Fighting Truck and M1158 HEMTT Water Tanker.

1.21 ENVIRONMENTAL ASSESSMENT

This IWFMP was developed in conjunction with the update of the 2005 STA INRMP and is included as an Appendix in the 2013 updated INRMP. Prescribed Burns have been and will continue to be a natural resource management tool at STA. A Finding of No Significant Impact (FONSI) was issued for the 2005-2010 STA INRMP. As such, the 2005 INRMP EA and the FONSI are valid for the updated INRMP. A Record of Environmental Consideration will be completed for the 2013 updated INRMP.

CHAPTER 2: WILDLAND FIRE

2.1 SUPPRESSION AND PREVENTION

The STA prescribed burn program is designed to minimized risk of wildland fires on and off the training site. Range Control directs suppression during training operations per NGIL Regulation 350-12. STA does not have a 24/7 standing firefighting unit on site and therefore must rely on local public fire departments to be first responders to any wildfire situation.

The 661st and 662nd Firefighting teams are FFT2 level trained and have significant firefighting resources at their disposal; however, the teams are traditional M-Day ILARNG units and train only one weekend per month and two weeks a year and must focus training on their military mission. STA has requested their support for past prescribed burn operations but priority of training requirements, scheduling conflicts, and funding issues have prevented them from actively supporting prescribed burns at STA.

2.2 DETECTION PROCEDURES

Using units and STA operational staff within STA provide early fire warning during normal duty hours or when conducting field training activities. During non-duty hours concerned citizens calling 911 or detection by local police patrols would alert local fire departments.

2.3 DISPATCH PROCEDURES

Range Control, during duty hours, has responsibility per NGIL Regulation 350-12.

2.4 COMMUNICATIONS PLAN

All units and STA operational staff are required to maintain communication with Range Control while occupying any training area within STA.

Primary: Motorola Hand Held radio Frequency: 380.675 mhz
Secondary: FM radio Frequency: 34.325 mhz
Contingency: cell phone Number: 618-443-9618

2.5 REHABILITATION PROCEDURES

Damage to the STA as a result of wildland fire will be assessed by the natural resource manager to determine possible short and long term effects and the need for rehabilitation efforts required to minimized erosion or restore damaged forest and wildlife habitat areas.

2.6 RECORDS, REPORTS, AND MONITORING

All wildland fires occurring at STA will be recorded utilizing a Geographic Information System (GIS) database. Parameters recorded will be: date and time, weather conditions (if known), and perimeter of burned area. This information will be used to adjust prescribe burn intervals of affected burn unit(s). If Sparta Fire Department is dispatched to respond to a wildland fire of more than 1 acre they are required to report their response through the National Fire Incident Reporting System (NFIRS). DoDI 6055.6.E.2.2 requires submission of wildland fire reports to the NFIRS.

CHAPTER 3 PRESCRIBED FIRE MANAGEMENT

3.1 PRESCRIBED FIRES

Prescribed Fires are the wildland fire management tool utilized and predominantly referenced and described throughout chapter 1 Wildland Fire Management at STA.

3.2 CONSTRAINTS

Military training requirements take priority over any prescribed burn operations conducted at STA. The availability of STA staff during scheduled burn dates may also limit prescribed burn operations. At no time will any prescribed burns take place without an approved IWFMP and burn unit plan.

3.3 SITE SPECIFIC BURN PLANS

Prescribed burn plans developed for STA must include the following components: **See CH. I, SEC. 1565 Section 1565.60 Records and Reporting and include**

- 1) Burn unit description and location (to include burn unit map)
- 2) Emergency contact information
- 3) Required permit(s)
- 4) Official and public notifications
- 5) Burn objectives
- 6) Fuel type(s)
- 7) Acceptable weather and fuel moisture parameters
- 8) Prescribed fire prescribed behavior, operations, and expected duration
- 9) Required personnel and equipment resources
- 10) Communication procedures
- 11) Contingency operations
- 12) Safety
- 13) After Action Review and purposed modification to burn plan

STA Prescribed burn plan format is included as Appendix D.

3.4 MONITORING

The STA natural resource manager is responsible for conducting on-site monitoring of the short and long term effects of implementation of the STA IWFMP. The STA IWFMP is an integral part of the STA INRMP. As such, projects identified in the INRMP such as water quality, erosion control, and invasive species monitoring are concurrent with this IWFMP.

Within the prescribed burn units identified in the IWFMP appropriate vegetation cover plots should be emplaced to collect long-term data for assessing burn objectives and outcomes. Fairly simple, permanently marked (with GPS) cover plots will be emplaced by graduate students and the STA Natural Resource Manager over the course of fall 2012 and spring 2013. Vegetation data collected will include percent cover by species, presence of exotic invasive plants, woody encroachment, and bare soil. Analysis of data collected with the fore mentioned monitoring projects will be used to determine the impacts of prescribed burns, both positive and negative, at STA. Modifications to existing prescribed burn plans or burn intervals may be required as data is collected and analyzed. All data collected at STA is permanently maintained for long term study.

3.5 USE OF FIRE BREAKS

The use of permanent and temporary firebreaks utilizing both natural and artificial features will occur on all burn units (BU) at STA. Permanent firebreaks are currently in place at STA and include rights-of-way such as Road 4 on the south flank of BU 108-2, Road 6 on the north flank of BU 107-1, and permanent water bodies such as L2 on the south flank of BU 108-4 and Plum Creek on the north flank of 108-2. Temporary fire breaks will be constructed with minimal environmental impact prior to prescribed burn implementation. The design and type of control line installed will be based upon fuel type, fuel arrangement and access for maximum fire control and minimum impact. Examples of temporary firebreaks to be installed prior to burning at STA include a mowed break on the east flank of BU 108-2, an ephemeral stream on the north flank of 101-1, and a wetline on the east flank of BU 108-4. It is highly recommended to augment the perimeter fire breaks with the use of a foam wetting agent to enhance effectiveness.

Specific prescribed fire ignition tactics will be utilized to maximize both permanent and temporary firebreak utility at STA. On any type of firebreak, backing fires will be lit by burn personnel on appropriate sides of the burn unit to effectively widen the existing control lines to a width based upon weather and fuel conditions as determined by the STA prescribed fire burn boss. Burning off of a wet line is a tactic that can be utilized to establish a firebreak in areas of lighter, sparse fuels, along a mowed break, or in units where minimum impact firebreaks are preferred. In some burn units, firebreaks will consist of an ephemeral stream where additional support from a wetline and backing fire may be necessary, depending on conditions.

The construction of firebreaks to protect specific resources at STA will be necessary to exclude fire in and adjacent to certain burn units. Forest restoration areas include the east flank of BU 108-4 and the north flank of BU 102-1. Other 'No Burn Areas' are highlighted on Figure 1. STA does have one main high tension power transmission line running through several of the burn units. Prior mowing or extreme caution must be taken while conducting burns near the wooden power line poles and other training structures located within STA.

APPENDICES

Appendix A: IEPA Open Burn Permit Application



STATE OF ILLINOIS
 ENVIRONMENTAL PROTECTION AGENCY
 DIVISION OF AIR POLLUTION CONTROL
 P. O. BOX 19508
 SPRINGFIELD, ILLINOIS 62794-9508

This Agency is authorized to require this information under Illinois Revised Statutes, 1979, Chapter 111 1/2, Section 1039. Disclosure of this information is required under that Section. Failure to do so may prevent this form from being processed and could result in your application being denied. This form has been approved by the Forms Management Center.

For Agency Use Only

I.D. _____
 Permit _____

APPLICATION FOR OPEN BURNING PERMIT

1. APPLICANT

Name: _____
 Address: _____ Zip Code: _____
 Contact Person: _____ Phone: ____/____/_____

2. TYPE OF PERMIT APPLICATION

____ Firefighting Instruction/Research ____ Prairie or Forest Ecology Management
 ____ Disaster Waste ____ Landscape Waste, With Air Curtain Destructor
 ____ Other (Specify): _____

3. GENERAL JUSTIFICATION FOR OPEN BURNING

Reasons why alternatives to open burning are not available: _____

Reasons why such burning is in the public interest: _____

4. SITE

Address: _____
 County: _____ Township: _____

Attach to this application (1) a sketch of the immediate vicinity of the site, and (2) a printed map of the general area with the site and nearby features marked. Together these maps must describe the site and provide the distance to nearby features, including adjacent structures, residences, populated areas, roadways, airports, lakes and waterways, hospitals, nursing homes and schools.

5. DURATION AND SCHEDULE

Estimated duration of Open Burning: _____ Total Hours
 If Open Burning will occur over more than one day: _____ Hours/Day
 Scheduled Date(s): _____ Alternate Date(s): _____
 Name of individual to contact on-site to verify date(s) for Open Burning: _____
 _____ Phone: ____/____/_____

6. MATERIALS TO BE BURNED

<u>Item</u>	<u>Amount/Size</u>	<u>Composition/Description/Contents</u>
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

Specify total amounts of material to be burned at the site. Include material(s) used to start the fire and any supplemental material(s) used to maintain the fire. Describe items in appropriate terms, that is

Prairies: Acres - Type and extent of vegetation

Chemicals: Volume or weight - chemical constituents

Buildings: Stories, rooms, square feet - type of construction, state of deterioration, roofing & siding materials, remaining furnishings, other contents

7. CONTAMINANT EMISSIONS

Particulate Matter _____ LB Sulfur Dioxide _____ LB Nitrogen Oxide
_____ LB Organic Material _____ LB Carbon Monoxide _____ LB
Other (_____) _____ LB

Attach calculations or other means by which the above data was obtained. (This Section need not be completed for burning of vegetation, landscape waste, building debris, and agricultural waste. If the materials are adequately described in Section 6).

8. RESIDUE DISPOSAL

Method to be used to dispose of the residue from Open Burning:

9. ABATEMENT

Steps taken in planning for Open Burning to minimize emissions and air quality impacts:

Amount of Material Scheduling Site Selection Other (_____)

Explanation:

Methods used during Open Burning to reduce contaminant emissions and minimize impact on air quality:

Water-Fog Curtain Controlled Burn Other (_____)

Explanation: _____

10. NOTIFICATION

Have individuals living or working near the site been notified of the proposed Open Burning?

 Yes No If "Yes", explain method of notice and any additional measures to be taken to respond to concerns:

11. ADDITIONAL INFORMATION -LANDSCAPE WASTE DISPOSAL ONLY!

Name of air curtain destructor or comparable device: _____

Manufacturer: _____ Model No.: _____

Attach a copy of the manufacturer's written instructions for use of the device to the application. A copy of these instructions should be available at the Open Burning site.

12. ADDITIONAL INFORMATION - DISASTER WASTE DISPOSAL ONLY!

Type of Disaster: Tornado Ice Storm Flood Other(Specify): _____

Disaster Declared By: Governor Of Illinois President Of The United States
Will material other than clean wooden building debris, landscape waste or agricultural waste, caused by the disaster, be burned? Yes No

13. ADDITIONAL INFORMATION -FIREFIGHTING INSTRUCTION/RESEARCH ONLY!

Participation in the exercise:	<u>Organizations or Departments</u>	<u>Estimated Number of participants</u>
	_____	_____
	_____	_____
	_____	_____

Scope of Training Exercise: Use Of Extinguishers Forceable Entry
 Rescue Techniques Use of Smoke Masks and Breathing Apparatus Other(Specify): _____

Description of Open Burning as related to the training exercise (plan of fire, phases of training, methods of ignition, extinguishment methods, etc.):

Attach written plan for exercise or similar exercise, if available
List of other training activities in the last 12 months including all Open Burning exercises:

AUTHORIZED SIGNATURE

The undersigned hereby makes application for an Open Burning Permit and certifies that the statements contained herein are true and correct.

Signature: _____ Date: _____

Typed Or Printed Name Of Signer: _____

Title Of Signer: _____

Additional Comments:

Appendix B: NWCG Prescribed Fire Go/NO-GO Checklist PMS 421



**NWCG PRESCRIBED FIRE
GO/NO-GO CHECKLIST**

Yes	No	Questions
		Are ALL fire prescription elements met?
		Are ALL smoke management specifications met?
		Has ALL required current and projected fire weather forecast been obtained and are they it favorable?
		Are ALL planned operations personnel and equipment on-site, available, and operational?
		Has the availability of ALL contingency resources been checked, and are they available?
		Have ALL personnel been briefed on the project objectives, their assignment, safety hazards, escape routes, and safety zones?
		Have all the pre-burn considerations identified in the prescribed fire plan been completed or addressed?
		Have ALL the required notifications been made?
		Are ALL permits and clearances obtained?
		In your opinion, can the burn be carried out according to the prescribed fire plan and will it meet the planned objective?

If all the questions were answered "YES" proceed with a test fire. Document the current conditions, location, and results

PMS 421 (1/02)

Appendix C: Burn Unit Plan Format

PRESCRIBED BURN PLAN

1. BURN UNIT INFORMATION:

**Training site:
Burn Unit:
Unit Area:**

2. SOURCES OF EMERGENCY ASSISTANCE (location & phone #):

**Fire:
Law Enforcement:
Medical:**

3. PERMITS AND OFFICIAL NOTIFICATIONS:

**EPA Burn Permit:
Local Fire:
Local Law Enforcement:**

4. NEIGHBOR NOTIFICATIONS:

Name	Address	Phone

5. UNIT DESCRIPTION:

Vegetation Types	Fuel Models	% of Unit Area	% Slope	Aspect

Fire Unit Narrative Description (include description of surrounding fuels):

Maps Attached:

Location map: Yes / No
 Burn unit map: Yes / No
 Other:

6. PRESCRIBED BURN JUSTIFICATION:

Type of Burn:

Burn Unit Management Goal(s):

7. FUEL AND WEATHER PRESCRIPTION (give acceptable ranges)

Required Parameters:	MAX	MIN	PREFERRED (if applicable)
Wind Direction(in degrees)			
Effective Windspeed (mph)			
1-Hour Fuel Moisture (%)			
10-Hour Fuel Moisture (%)			
100-Hour Fuel Moisture (%)			
Live Fuel Moisture (%)			
Atmospheric Mixing Height (ft)			

Guidance Parameters:	MAX	MIN	PREFERRED (if applicable)
Air Temperature (°F)	95	35	55
Relative Humidity (%)	60	30	40
Days Since Rain	49	1	10
20 ft wind speed (mph)	15	8	

Other Comments:

8. PREDICTED FIRE BEHAVIOR (From BEHAVE or attach BEHAVE outputs: use inputs from #7; include predictions for fuels surrounding burn unit) Use this information as a guide to the potential range of behavior from a free-burning fire, and for contingency planning.

	Fuel Model		
	#	#	#
Max. Headfire Flame Length			
Min. Headfire Flame Length			
Max. HF Rate of Spread			
Min. HF Rate of Spread			
Max. Backfire Flame Length			
Min. Backfire Flame Length			
Max BF Rate of Spread			
Min. BF Rate of Spread			
Max. Scorch Height			

9. SMOKE MANAGEMENT

Sensitive Area	Direction from Unit	Distance

10. CREW ORGANIZATION

Qualified fire leader(s):
Crew Number **to**
Squad/Team Composition:

Special fitness or experience requirements:

11. EQUIPMENT REQUIREMENTS

Equipment Item	Number	Source

12. BURN DURATION

Time (indicate minutes or hours) for:
Baseline Preparation:
Spreading Fire:
Mop-up:
Total Duration:

13. MANAGING THE BURN (Describe each of the following):

Firebreak preparations:

Firing techniques and ignition pattern:

Crew communication:

Fire behavior and weather monitoring:

Holding:

Fire sensitive areas:

Contingencies (include safety zones, escape routes, secondary control lines, escape response procedures):

Potential hazards to crew:

Mop-up:

Public relations:

Follow-up assignments:

14. MONITORING AND EVALUATION

Site Fire Management Plan complete? Yes / No

Exemptions or modifications:

Justification(s) for exemptions or modifications:

15. SAFETY/RISK MANAGEMENT

Identified Risks:

Mitigation measures:

16. SUBMISSION AND APPROVAL

Plan Submitted By: _____ Title: _____

Plan Approved By: _____ Title: _____

PRE-BURN CHECKLIST AND CREW BRIEFING

Location:

Fire Unit:

Date:

A. PRIOR TO CREW BRIEFING

- Fire Unit is as described in plan.
- Required firebreaks complete.
- Permits obtained. Give permit #'s:
- Official and neighbor notifications complete.
- Required equipment is on-site and functioning.
- Planned ignition and containment methods are appropriate.
- List of emergency phone numbers are in each vehicle.
- Planned contingencies and mop-up are appropriate.

B CREW BRIEFING

- Each crew member has a burn unit map.
- Fire Unit size and boundaries discussed.
- Fire Unit hazards discussed.
- Purpose of burn.
- Anticipated fire and smoke behavior.
- Review of equipment and troubleshooting.
- Check crew qualifications.
- Review organization of crew and assignments.
- Review methods of ignition, holding, mop-up, communications.
- Review contact with the public; traffic concerns.
- Location of vehicles, keys, and nearest phone.
- Location of back-up equipment, supplies, and water.
- Review all contingencies including escape routes.
- Review mop-up procedures.
- Answer questions from crew.
- Give crew members the opportunity to decline participation.

C. PRIOR TO IGNITION

- Weather and fuel conditions are within prescriptions.
- Weather forecast, obtained within two hours of ignition, says prescribed weather will hold for two hours past expected duration of burn.
- Crew members have required protective clothing.
- Crew members have matches.
- Conduct test burn.

D. BEFORE LEAVING BURN UNIT

- Mop-up completed as described in prescription.
- Next morning inspection arranged.
- Notifications of completed burn (if required).

E. NOTE ANY MODIFICATIONS TO RX

Prescribed Fire Burn Boss: _____ Date: _____

Appendix D: STA Prescribe Burn Unit Maps

Appendix D: STA Prescribe Burn Unit Maps



Legend

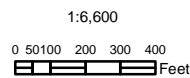
- Land Navigation Points
- Lakes/Ponds
- No Burn Area
- Burn Area
- ══ Main Road
- Secondary Road
- ==== Unpaved trails
- ▭ Boundry 2010
- ▭ Training boundry 2010



**STA Prescribed Burn
Unit 101-1 Map
Acreage 118**

No Warranty is made by the ILARNG as to the accuracy, reliability, or completeness of these data for individual use or aggregate use with other data. The map is a "living document", in that it is intended to change as new data become available and is incorporated into the Enterprise GIS database.

Notes: Projection NAD 1983 UTM Zone 16N
Aug 2011



Sparta Training Area





Legend

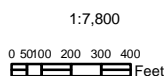
- land_navigation_course
- No Burn Area
- ▬ Main Road
- ▬ Secondary Road
- ▬▬▬ Unpaved trails
- Lakes/Ponds
- ▬▬▬ Boundry 2010
- ▬▬▬ Training boundry 2010
- Burn Area



**STA Prescribed Burn
Unit 102-1 Map
Acreage 141**

No Warranty is made by the ILARNG as to the accuracy, reliability, or completeness of these data for individual use or aggregate use with other data. The map is a "living document", in that it is intended to change as new data become available and is incorporated into the Enterprise GIS database.

Notes: Projection NAD 1983 UTM Zone 16N
Aug 2011





Legend

- land_navigation_points
- Burn Area
- No Burn Area
- == Main Road
- Secondary Road
- ==== Unpaved trails
- Lakes/Ponds
- ⋈ Boundary 2010
- Training boundary 2010

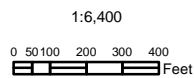


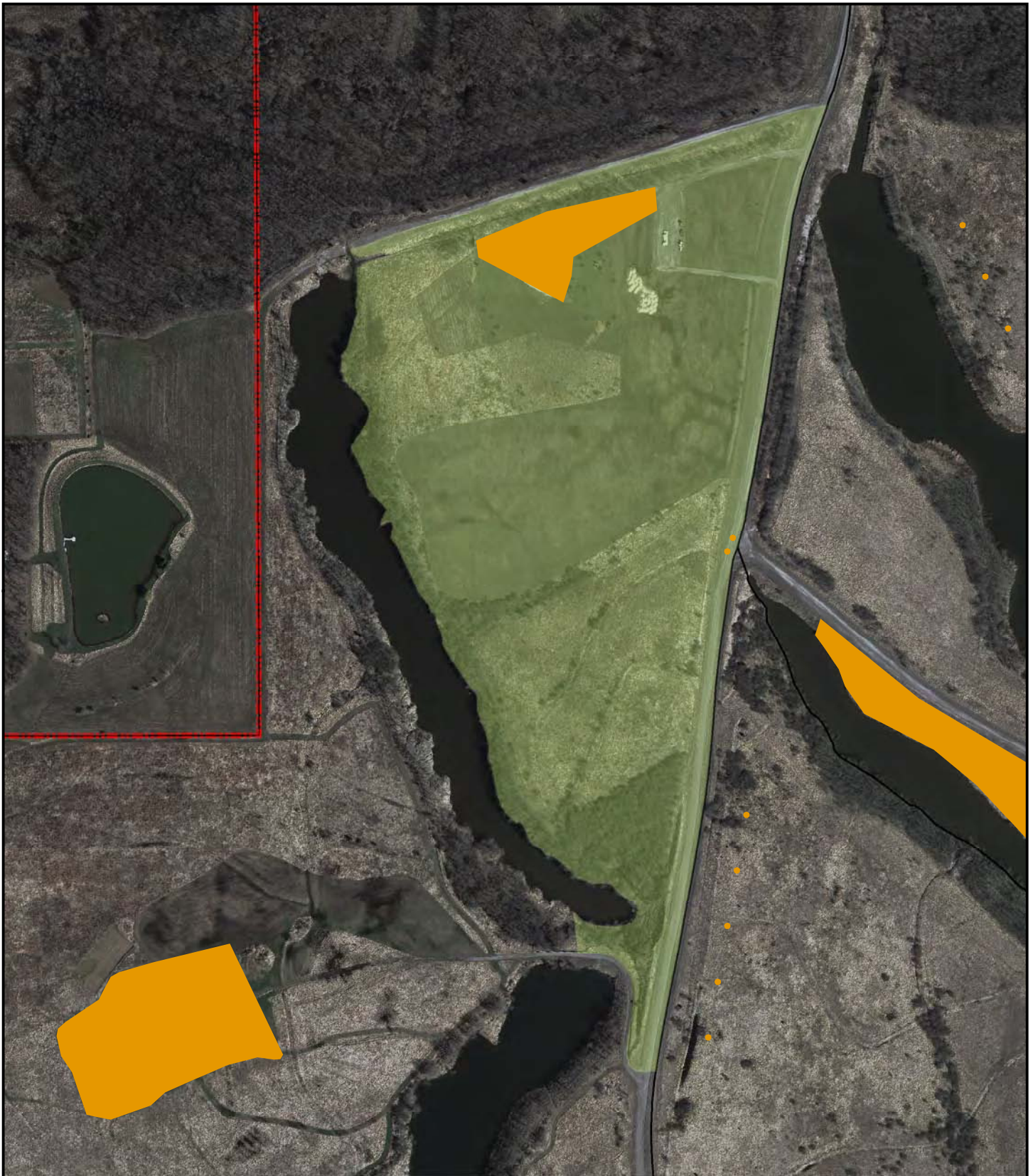
**STA Prescribed Burn
Unit 103-1 Map
Acreage 148**

No Warranty is made by the ILARNG as to the accuracy, reliability, or completeness of these data for individual use or aggregate use with other data. The map is a "living document", in that it is intended to change as new data become available and is incorporated into the Enterprise GIS database.

Notes: Projection NAD 1983 UTM Zone 16N

Aug 2011





Legend

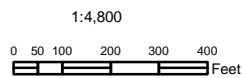
- land_navigation_points
- No Burn Area
- Burn Areas
- Lakes/Ponds
- Main Road
- Secondary Road
- ==== Unpaved trails
- ⊞ Boundary 2010
- Training boundary 2010



STA Prescribed Burn Unit 103-2 Map Acreage 47

No Warranty is made by the ILARNG as to the accuracy, reliability, or completeness of these data for individual use or aggregate use with other data. The map is a "living document", in that it is intended to change as new data become available and is incorporated into the Enterprise GIS database.

Notes: Projection NAD 1983 UTM Zone 16N
Aug 2011





Legend

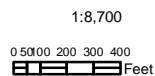
- land_navigation_points
- No Burn Area
- Burn Areas
- == Main Road
- Secondary Road
- === Unpaved trails
- Lakes/Ponds
- ▭ Boundry 2010
- ▭ Training boundary 2010



STA Prescribed Burn Unit 104-1 Map Acreage 201

No Warranty is made by the ILARNG as to the accuracy, reliability, or completeness of these data for individual use or aggregate use with other data. The map is a "living document", in that it is intended to change as new data become available and is incorporated into the Enterprise GIS database.

Notes: Projection NAD 1983 UTM Zone 16N
Aug 2011





Legend

- land_navigation_points
- No Burn Area
- ══ Main Road
- Secondary Road
- ≡≡≡ Unpaved trails
- Lakes/Ponds
- Burn Area
- ⊞ Boundry 2010
- Training boundary 2010

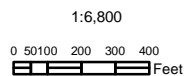


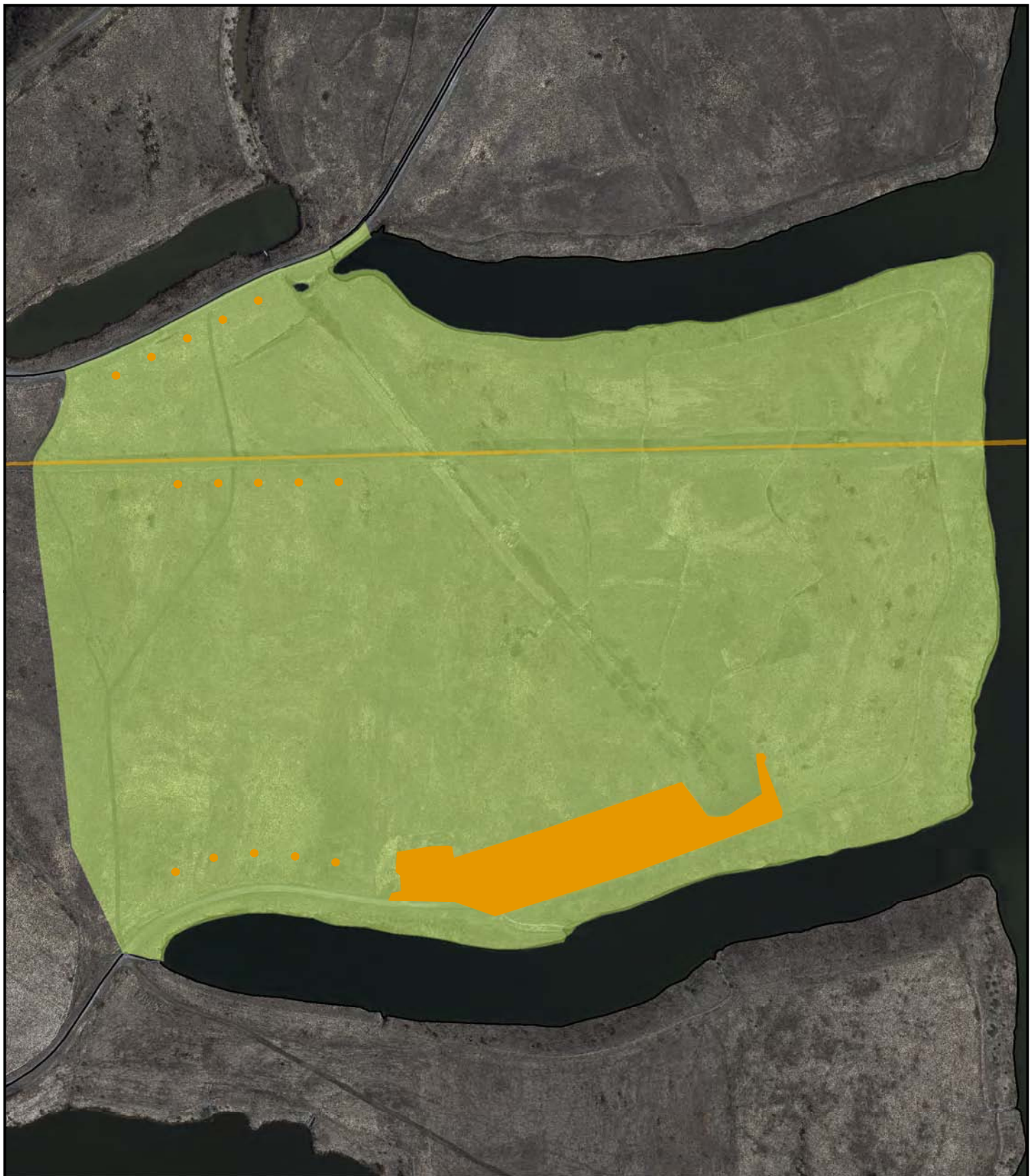
**STA Prescribed Burn
Unit 105-1 Map
Acreage 108**

No Warranty is made by the ILARNG as to the accuracy, reliability, or completeness of these data for individual use or aggregate use with other data. The map is a "living document", in that it is intended to change as new data become available and is incorporated into the Enterprise GIS database.

Notes: Projection NAD 1983 UTM Zone 16N


Aug 2011





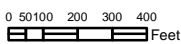
Legend

- land_navigation_points
- No Burn Area
- Burn Area
- ▬ Main Road
- ▬ Secondary Road
- ▬▬▬ Unpaved trails
- Lakes/Ponds
- ▭ Boundry 2010
- ▭ Training boundary 2010





STA Prescribed Burn Unit 105-2 Map Acreage 212

1:6,700



No Warranty is made by the ILARNG as to the accuracy, reliability, or completeness of these data for individual use or aggregate use with other data. The map is a "living document", in that it is intended to change as new data become available and is incorporated into the Enterprise GIS database.


Notes: Projection NAD 1983 UTM Zone 16N
Aug 2011



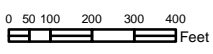
Legend

- land_navigation_points
- No burn Area
- Burn Area
- == Main Road
- Secondary Road
- === Unpaved trails
- Lakes/Ponds
- Boundry 2010
- Training boundary 2010





STA Prescribed Burn Unit 107-1 Map Acreage 80

1:5,500



No Warranty is made by the ILARNG as to the accuracy, reliability, or completeness of these data for individual use or aggregate use with other data. The map is a "living document", in that it is intended to change as new data become available and is incorporated into the Enterprise GIS database.


Notes: Projection NAD 1983 UTM Zone 16N
Aug 2011



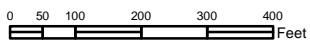
Legend

- land_navigation_points
- No Burn Area
- Burn Area
- ══ Main Road
- Secondary Road
- ==== Unpaved trails
- ▭ Boundry 2010
- ▭ Training boundry 2010



STA Prescribed Burn Unit 107-2 Map Acreage 19



1:3,500



No Warranty is made by the ILARNG as to the accuracy, reliability, or completeness of these data for individual use or aggregate use with other data. The map is a "living document", in that it is intended to change as new data become available and is incorporated into the Enterprise GIS database.

Notes: Projection NAD 1983 UTM Zone 16N
Aug 2011

Sparta Training Area



Legend

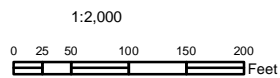
- land_navigation_points
- No Burn Area
- Burn Area
- Main Road
- Secondary Road
- Unpaved trails
- Boundry 2010
- Training boundry 2010



STA Prescribed Burn Unit 108-1 Map Acreage 13

No Warranty is made by the ILARNG as to the accuracy, reliability, or completeness of these data for individual use or aggregate use with other data. The map is a "living document", in that it is intended to change as new data become available and is incorporated into the Enterprise GIS database.

Notes: Projection NAD 1983 UTM Zone 16N
Aug 2011



Sparta Training Area





Legend

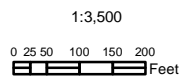
- land_navigation_points
- No Burn Area
- Burn Area
- === Main Road
- Secondary Road
- Unpaved trails
- Boundary 2010
- Training boundary 2010



STA Prescribed Burn Unit 108-2 Map Acreage 76

No Warranty is made by the ILARNG as to the accuracy, reliability, or completeness of these data for individual use or aggregate use with other data. The map is a "living document", in that it is intended to change as new data become available and is incorporated into the Enterprise GIS database.

Notes: Projection NAD 1983 UTM Zone 16N
Aug 2011



Sparta Training Area





Legend

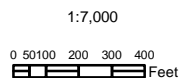
- land_navigation_points
- No Burn Area
- Burn Area
- Main Road
- Secondary Road
- Unpaved trails
- Boundry 2010
- Training boundry 2010



**STA Prescribed Burn
Unit 108-3 Map
Acreage 162**

No Warranty is made by the ILARNG as to the accuracy, reliability, or completeness of these data for individual use or aggregate use with other data. The map is a "living document", in that it is intended to change as new data become available and is incorporated into the Enterprise GIS database.

Notes: Projection NAD 1983 UTM Zone 16N
Aug 2011



Sparta Training Area





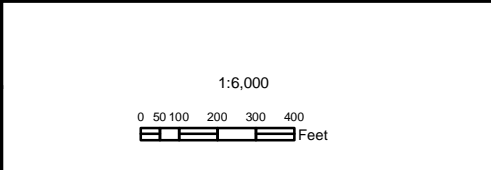
Legend

- land_navigation_points
- No Burn Area
- Burn Area
- Main Road
- Secondary Road
- Unpaved trails
- Boundary 2010
- Training boundry 2010

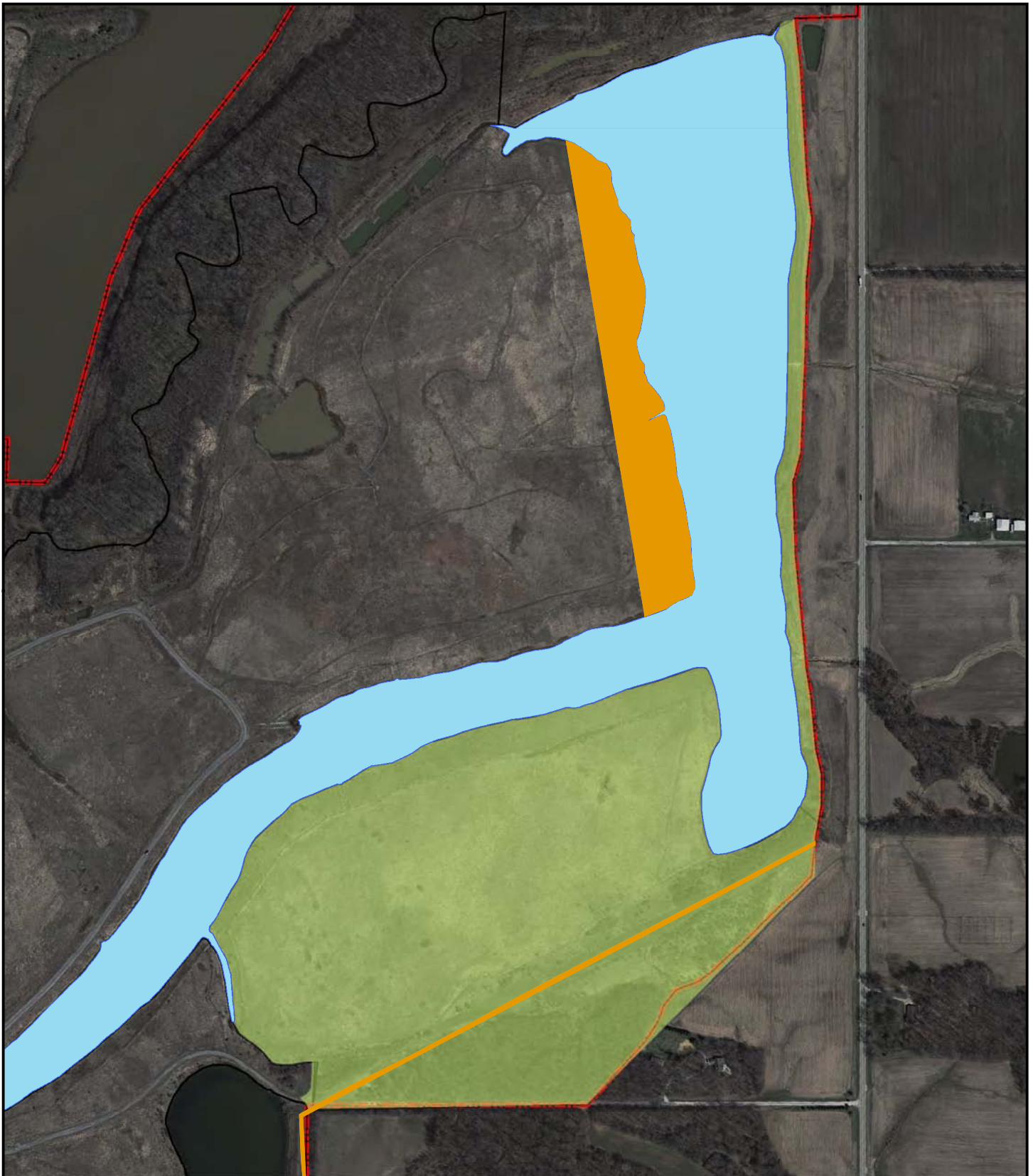
STA Prescribed Burn Unit 108-4 Map Acreage 157

No Warranty is made by the ILARNG as to the accuracy, reliability, or completeness of these data for individual use or aggregate use with other data. The map is a "living document", in that it is intended to change as new data become available and is incorporated into the Enterprise GIS database.

Notes: Projection NAD 1983 UTM Zone 16N
Aug 2011



Sparta Training Area



Legend

- No burn Area
- Burn Area
- Main Road
- Secondary Road
- Unpaved trails
- Lakes/Ponds
- Boundry 2010
- Training boundry 2010

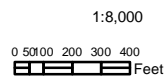


**STA Prescribed Burn
Unit 110-1 Map
Acreage 102**

No Warranty is made by the ILARNG as to the accuracy, reliability, or completeness of these data for individual use or aggregate use with other data. The map is a "living document", in that it is intended to change as new data become available and is incorporated into the Enterprise GIS database.

Notes: Projection NAD 1983 UTM Zone 16N

Aug 2011



Sparta Training Area





Legend

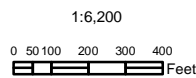
- No Burn Area
- Burn Area
- Main Road
- Secondary Road
- Unpaved trails
- Lakes/Ponds
- Boundry 2010
- Training boundry 2010



**STA Prescribed Burn
Unit 201-1 Map
Acreage 196**

No Warranty is made by the ILARNG as to the accuracy, reliability, or completeness of these data for individual use or aggregate use with other data. The map is a "living document", in that it is intended to change as new data become available and is incorporated into the Enterprise GIS database.

Notes: Projection NAD 1983 UTM Zone 16N
Aug 2011











Sparta Training Area





Legend

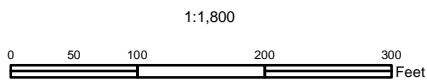
-  No Burn Area
-  Burn Area
-  Main Road
-  Secondary Road
-  Unpaved trails
-  Lakes/Ponds
-  Boundry 2010
-  Training boundry 2010



**STA Prescribed Burn
Unit 202-1 Map
Acreage 21**

No Warranty is made by the ILARNG as to the accuracy, reliability, or completeness of these data for individual use or aggregate use with other data. The map is a "living document", in that it is intended to change as new data become available and is incorporated into the Enterprise GIS database.

Notes: Projection NAD 1983 UTM Zone 16N
Aug 2011



Sparta Training Area





Legend

- land_navigation_course
- No Burn Area
- Burn Area
- Main Road
- Secondary Road
- Unpaved trails
- Lakes/Ponds
- Boundry 2010
- Training boundry 2010

STA Prescribed Burn Unit 202-2 Map Acreage 137

1:7,000

0 50 100 200 300 400 Feet

No Warranty is made by the ILARNG as to the accuracy, reliability, or completeness of these data for individual use or aggregate use with other data. The map is a "living document", in that it is intended to change as new data become available and is incorporated into the Enterprise GIS database.

Notes: Projection NAD 1983 UTM Zone 16N
Aug 2011

Sparta Training Area

APPENDIX E

INTERAGENCY COORDINATION AND NATIVE AMERICA CONSULTATION

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CONTENTS

AGENCY CORRESPONDENCE

Agency Consultation Letters – 8 November 2010.....	Page 1
Agency Consultation Letter Enclosures	Page 23

IHPA

IHPA Consultation Letter – 28 October 2010	Page 25
IHPA Sparta Concurrence Letter – 30 July 2004	Page 27
Programmatic Inter-Agency Agreement – DMAIL & IHPA – 9 July 2009	Page 29

USFWS and IDNR

INRMP Consultation Letter 17 December – 2010.....	Page 41
Statewide Integrated Pest Management Plan Letter – 28 August 2012	Page 43
USFWS Comments on draft INRMP – 7 May 2013	Page 47
IDNR Comments on draft INRMP – 7 May 2013	Page 50
Agency Comment Matrix (Draft INRMP).....	Page 51
IDNR Concurrence Letter – 25 June 2013	Page 54
USFWS Concurrence Letter – 10 July 2013	Page 55

NATIVE AMERICAN CONSULTATION

Native American Consultation Letter – 27 October 2010.....	Page 57
Peoria Tribe of Indians of Oklahoma – 8 December 2010.....	Page 59

ARMY NATIONAL GUARD ENVIRONMENTAL PROGRAMS DIVISION (ARNG-ILE)

ARNG-ILE Approval of the INRMP Update for Sparta Training Area – 24 July 2013	Page 60
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November 8, 2010

Environmental Branch

SUBJECT: Intergovernmental and Interagency Environmental Planning Consultation, Illinois Army National Guard (ILARNG), Integrated Natural Resources Management Plan (INRMP) Update for the Sparta Training Area (STA), Randolph County, Illinois

Mr. Jim Herkert
Director of the Office of Resource Conservation
Department of Natural Resources
One Natural Resources Way
Springfield, Illinois 62702

Dear Mr. Herkert:

The National Guard Bureau (NGB) and the ILARNG are updating the September 2005 INRMP for the STA. This INRMP is required by Army Policy to reflect the mutual agreement of the U. S. Fish and Wildlife Service (USFWS) and the Illinois Department of Natural Resources (IDNR). The purpose of the INRMP update is to document the policies and desired future direction of ILARNG's natural resources program at this training site.

The ILARNG is responsible for the prudent management and use of 2,642 acres comprising the STA, which is located approximately 45 miles from St. Louis, Missouri within Sparta, Randolph County, Illinois (see Figure 1). The Peabody Coal Company dedicated land to the ILARNG on October 31, 1986, for the purpose of military training. The majority of the site has been strip-mined and was reclaimed by the Peabody Coal Company to the IDNR Office of Mines and Minerals (OMM) Industrial/Commercial Standard prior to the Department of Military Affairs of Illinois (DMAIL) acquisition.

The STA is comprised of some agricultural land in the south, fourteen artificial lakes surrounded by upland cool and warm season grasses in the central and northern portion, and the Plum Creek watershed in the north (see Figure 2). No federally-listed endangered/threatened species have been observed on site; however, three Illinois state listed bird species have previously been observed. These species include the Loggerhead Strike (*Lanius ludovicianus*), Northern Harrier (*Circus cyaneus*), and Pied-Billed Grebe (*Podilymbus podiceps*). Surrounding land use is agricultural with low-density rural development. The IDNR's World Shooting Complex adjoins the northwestern portion of the property.

The ILARNG has conducted a number of environmental, biological, and cultural resource surveys at STA over the last several years and has extensive baseline information about flora and fauna species, plant communities, wetlands, surface water quality, soils, topography and cultural resources. For this updated INRMP, we are seeking from your agency any new or additional information, new natural resource topics or issues of concern, updates on policies or regulations, updates on rare flora and fauna listings, identification of issues of regional concern, or other new information that your agency thinks would be of value in this effort. Generally, these data would be more recent than 2004, as data prior to 2004 have been previously requested from, and provided by, your agency. Any data that your agency provides will be evaluated and used to help update the INRMP as appropriate.

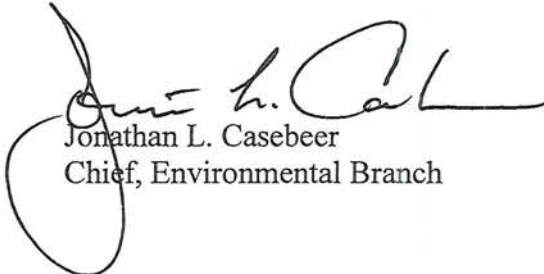
The ILARNG has requested information from a number of agencies (see enclosed list). If you are aware of other individuals, groups, or resource agencies that may possess additional information or knowledge that may assist us in preparing this updated INRMP, please either contact us or forward this letter for their review, and include applicable returned comments with your response.

We look forward to and welcome your participation in this INRMP update process. Providing information as requested above on or before December 6, 2010 will enable us to complete this phase of the project within the scheduled timeframe. The ILARNG has hired AMEC Earth & Environmental, Inc. to facilitate the INRMP update. Please send your correspondence directly to the following address:

Ms. Jennifer Warf
AMEC Earth & Environmental, Inc.
201 South Capitol Avenue, Suite 200
Indianapolis, IN 46225
jennifer.warf@amec.com

If you have any questions concerning this request, please do not hesitate to contact Ms. Warf at (317) 224-5964 or the undersigned at (217) 761-3794 or jonathan.casebeer@us.army.mil.

Sincerely,



Jonathan L. Casebeer
Chief, Environmental Branch

Enclosures

Copy furnished w/enclosures:
Ms. Diane Tecic, IDNR (Alton)



November 8, 2010

Environmental Branch

SUBJECT: Intergovernmental and Interagency Environmental Planning Consultation, Illinois Army National Guard (ILARNG), Integrated Natural Resources Management Plan (INRMP) Update for the Sparta Training Area (STA), Randolph County, Illinois

Illinois State Geological Survey
Attn: Mr. McKay
Natural Resources Building
615 East Peabody Drive
Champaign, Illinois 61820-6964

Dear Mr. McKay:

The National Guard Bureau (NGB) and the ILARNG are updating the September 2005 INRMP for the STA. This INRMP is required by Army Policy to reflect the mutual agreement of the U. S. Fish and Wildlife Service (USFWS) and the Illinois Department of Natural Resources (IDNR). The purpose of the INRMP update is to document the policies and desired future direction of ILARNG's natural resources program at this training site.

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The STA is comprised of some agricultural land in the south, fourteen artificial lakes surrounded by upland cool and warm season grasses in the central and northern portion, and the Plum Creek watershed in the north (see Figure 2). No federally-listed endangered/threatened species have been observed on site; however, three Illinois state listed bird species have previously been observed. These species include the Loggerhead Strike (*Lanius ludovicianus*), Northern Harrier (*Circus cyaneus*), and Pied-Billed Grebe (*Podilymbus podiceps*). Surrounding land use is agricultural with low-density rural development. The IDNR's World Shooting Complex adjoins the northwestern portion of the property.

The ILARNG has conducted a number of environmental, biological, and cultural resource surveys at STA over the last several years and has extensive baseline information about flora and fauna species, plant communities, wetlands, surface water quality, soils, topography and cultural resources. For this updated INRMP, we are seeking from your agency any new or additional information, new natural resource topics or issues of concern, updates on policies or regulations, updates on rare flora and fauna listings, identification of issues of regional concern, or other new information that your agency thinks would be of value in this effort. Generally, these data would be more recent than 2004, as data prior to 2004 have been previously requested from, and provided by, your agency. Any data that your agency provides will be evaluated and used to help update the INRMP as appropriate.

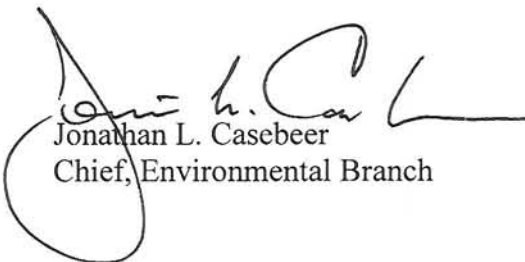
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Ms. Jennifer Warf
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201 South Capitol Avenue, Suite 200
Indianapolis, IN 46225
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Sincerely,



Jonathan L. Casebeer
Chief, Environmental Branch

Enclosures



November 8, 2010

Environmental Branch

SUBJECT: Intergovernmental and Interagency Environmental Planning Consultation, Illinois Army National Guard (ILARNG), Integrated Natural Resources Management Plan (INRMP) Update for the Sparta Training Area (STA), Randolph County, Illinois

Illinois Natural History Survey
1816 South Oak Street, MC 652
Champaign, Illinois 61820

To Whom It May Concern:

The National Guard Bureau (NGB) and the ILARNG are updating the September 2005 INRMP for the STA. This INRMP is required by Army Policy to reflect the mutual agreement of the U. S. Fish and Wildlife Service (USFWS) and the Illinois Department of Natural Resources (IDNR). The purpose of the INRMP update is to document the policies and desired future direction of ILARNG's natural resources program at this training site.

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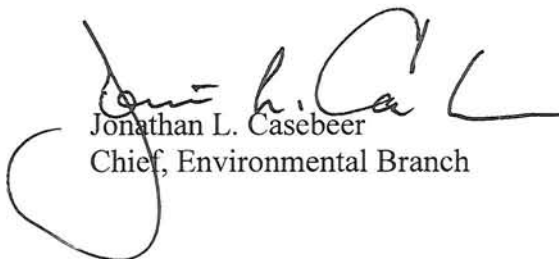
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Jonathan L. Casebeer
Chief, Environmental Branch

Enclosures



November 8, 2010

Environmental Branch

SUBJECT: Intergovernmental and Interagency Environmental Planning Consultation, Illinois Army National Guard (ILARNG), Integrated Natural Resources Management Plan (INRMP) Update for the Sparta Training Area (STA), Randolph County, Illinois

Illinois Department of Natural Resources
Attn: Mr. Miller
One Natural Resources Way
Springfield, Illinois 62702-1271

Dear Mr. Miller:

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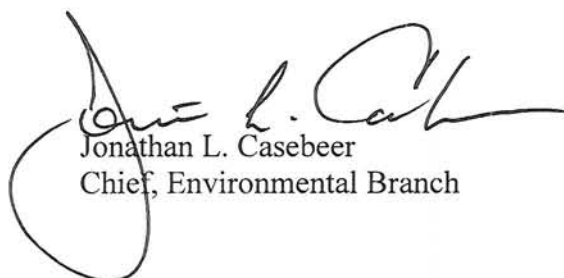
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Sincerely,



Jonathan L. Casebeer
Chief, Environmental Branch

Enclosures



November 8, 2010

Environmental Branch

SUBJECT: Intergovernmental and Interagency Environmental Planning Consultation, Illinois Army National Guard (ILARNG), Integrated Natural Resources Management Plan (INRMP) Update for the Sparta Training Area (STA), Randolph County, Illinois

Illinois Environmental Protection Agency
Attn: Mr. Scott
1021 North Grand Avenue East
Post Office Box 19276
Springfield, Illinois 62794-9276

Dear Mr. Scott:

The National Guard Bureau (NGB) and the ILARNG are updating the September 2005 INRMP for the STA. This INRMP is required by Army Policy to reflect the mutual agreement of the U. S. Fish and Wildlife Service (USFWS) and the Illinois Department of Natural Resources (IDNR). The purpose of the INRMP update is to document the policies and desired future direction of ILARNG's natural resources program at this training site.

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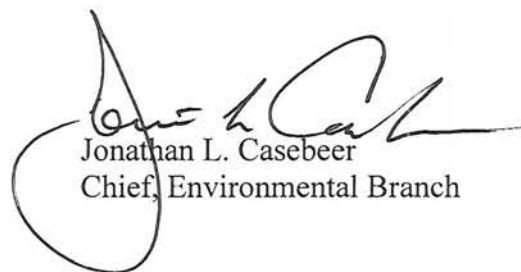
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Sincerely,



Jonathan L. Casebeer
Chief, Environmental Branch

Enclosures



November 8, 2010

Environmental Branch

SUBJECT: Intergovernmental and Interagency Environmental Planning Consultation, Illinois Army National Guard (ILARNG), Integrated Natural Resources Management Plan (INRMP) Update for the Sparta Training Area (STA), Randolph County, Illinois

Illinois State Water Survey
Attn: Misganaw Demissie
2204 Griffith Drive
Champaign, Illinois 61820-7495

Dear Misganaw Demissie:

The National Guard Bureau (NGB) and the ILARNG are updating the September 2005 INRMP for the STA. This INRMP is required by Army Policy to reflect the mutual agreement of the U. S. Fish and Wildlife Service (USFWS) and the Illinois Department of Natural Resources (IDNR). The purpose of the INRMP update is to document the policies and desired future direction of ILARNG's natural resources program at this training site.

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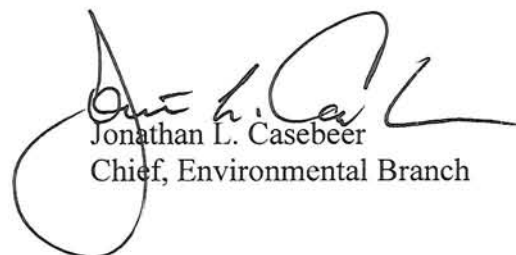
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Jonathan L. Casebeer
Chief, Environmental Branch

Enclosures



November 8, 2010

Environmental Branch

SUBJECT: Intergovernmental and Interagency Environmental Planning Consultation, Illinois Army National Guard (ILARNG), Integrated Natural Resources Management Plan (INRMP) Update for the Sparta Training Area (STA), Randolph County, Illinois

United States Army Corps of Engineers
St. Louis District
1222 Spruce Street
St. Louis, Missouri 63103-2833

To Whom It May Concern:

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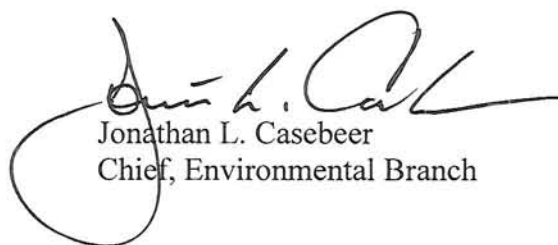
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Enclosures



November 8, 2010

Environmental Branch

SUBJECT: Intergovernmental and Interagency Environmental Planning Consultation, Illinois Army National Guard (ILARNG), Integrated Natural Resources Management Plan (INRMP) Update for the Sparta Training Area (STA), Randolph County, Illinois

USDA – Natural Resources Conservation Service
Sparta Service Center
Attn: Mr. Schlichting
313 West Belmont Street
Sparta, Illinois 62286

Dear Mr. Schlichting:

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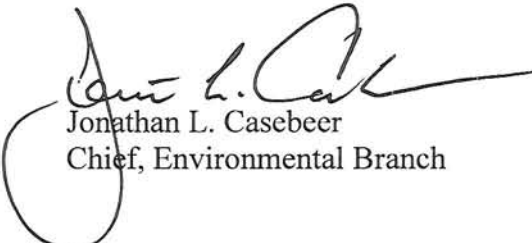
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November 8, 2010

Environmental Branch

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US Environmental Protection Agency
Region 5
Federal Building
77 West Jackson Boulevard
Chicago, Illinois 60604

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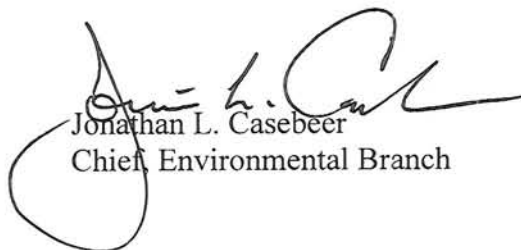
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We look forward to and welcome your participation in this INRMP update process. Providing information as requested above on or before December 6, 2010 will enable us to complete this phase of the project within the scheduled timeframe. The ILARNG has hired AMEC Earth & Environmental, Inc. to facilitate the INRMP update. Please send your correspondence directly to the following address:

Ms. Jennifer Warf
AMEC Earth & Environmental, Inc.
201 South Capitol Avenue, Suite 200
Indianapolis, IN 46225
jennifer.warf@amec.com

If you have any questions concerning this request, please do not hesitate to contact Ms. Warf at (317) 224-5964 or the undersigned at (217) 761-3794 or jonathan.casebeer@us.army.mil.

Sincerely,


Jonathan L. Casebeer
Chief, Environmental Branch

Enclosures



November 8, 2010

Environmental Branch

SUBJECT: Intergovernmental and Interagency Environmental Planning Consultation, Illinois Army National Guard (ILARNG), Integrated Natural Resources Management Plan (INRMP) Update for the Sparta Training Area (STA), Randolph County, Illinois

US Fish and Wildlife Service
Bishop Henry Federal Building
Attn: Mr. Patronski
One Federal Drive
Ft. Snelling, Minnesota 55111

Dear Mr. Patronski:

The National Guard Bureau (NGB) and the ILARNG are updating the September 2005 INRMP for the STA. This INRMP is required by Army Policy to reflect the mutual agreement of the U. S. Fish and Wildlife Service (USFWS) and the Illinois Department of Natural Resources (IDNR). The purpose of the INRMP update is to document the policies and desired future direction of ILARNG's natural resources program at this training site.

The ILARNG is responsible for the prudent management and use of 2,642 acres comprising the STA, which is located approximately 45 miles from St. Louis, Missouri within Sparta, Randolph County, Illinois (see Figure 1). The Peabody Coal Company dedicated land to the ILARNG on October 31, 1986, for the purpose of military training. The majority of the site has been strip-mined and was reclaimed by the Peabody Coal Company to the IDNR Office of Mines and Minerals (OMM) Industrial/Commercial Standard prior to the Department of Military Affairs of Illinois (DMAIL) acquisition.

The STA is comprised of some agricultural land in the south, fourteen artificial lakes surrounded by upland cool and warm season grasses in the central and northern portion, and the Plum Creek watershed in the north (see Figure 2). No federally-listed endangered/threatened species have been observed on site; however, three Illinois state listed bird species have previously been observed. These species include the Loggerhead Strike (*Lanius ludovicianus*), Northern Harrier (*Circus cyaneus*), and Pied-Billed Grebe (*Podilymbus podiceps*). Surrounding land use is agricultural with low-density rural development. The IDNR's World Shooting Complex adjoins the northwestern portion of the property.

The ILARNG has conducted a number of environmental, biological, and cultural resource surveys at STA over the last several years and has extensive baseline information about flora and fauna species, plant communities, wetlands, surface water quality, soils, topography and cultural resources. For this updated INRMP, we are seeking from your agency any new or additional information, new natural resource topics or issues of concern, updates on policies or regulations, updates on rare flora and fauna listings, identification of issues of regional concern, or other new information that your agency thinks would be of value in this effort. Generally, these data would be more recent than 2004, as data prior to 2004 have been previously requested from, and provided by, your agency. Any data that your agency provides will be evaluated and used to help update the INRMP as appropriate.

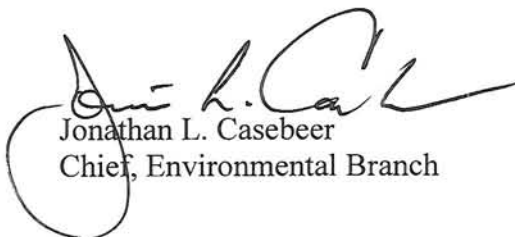
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Sincerely,



Jonathan L. Casebeer
Chief, Environmental Branch

Enclosures



November 8, 2010

Environmental Branch

SUBJECT: Intergovernmental and Interagency Environmental Planning Consultation, Illinois Army National Guard (ILARNG), Integrated Natural Resources Management Plan (INRMP) Update for the Sparta Training Area (STA), Randolph County, Illinois

US Fish and Wildlife Service
Attn: Ms. Collins
8588 Route 148
Marion, Illinois 62959

Dear Ms. Collins:

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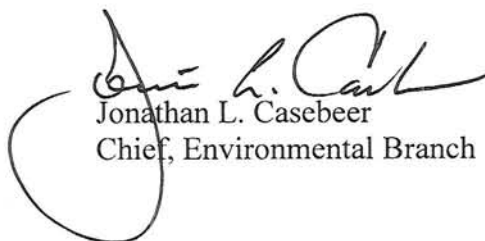
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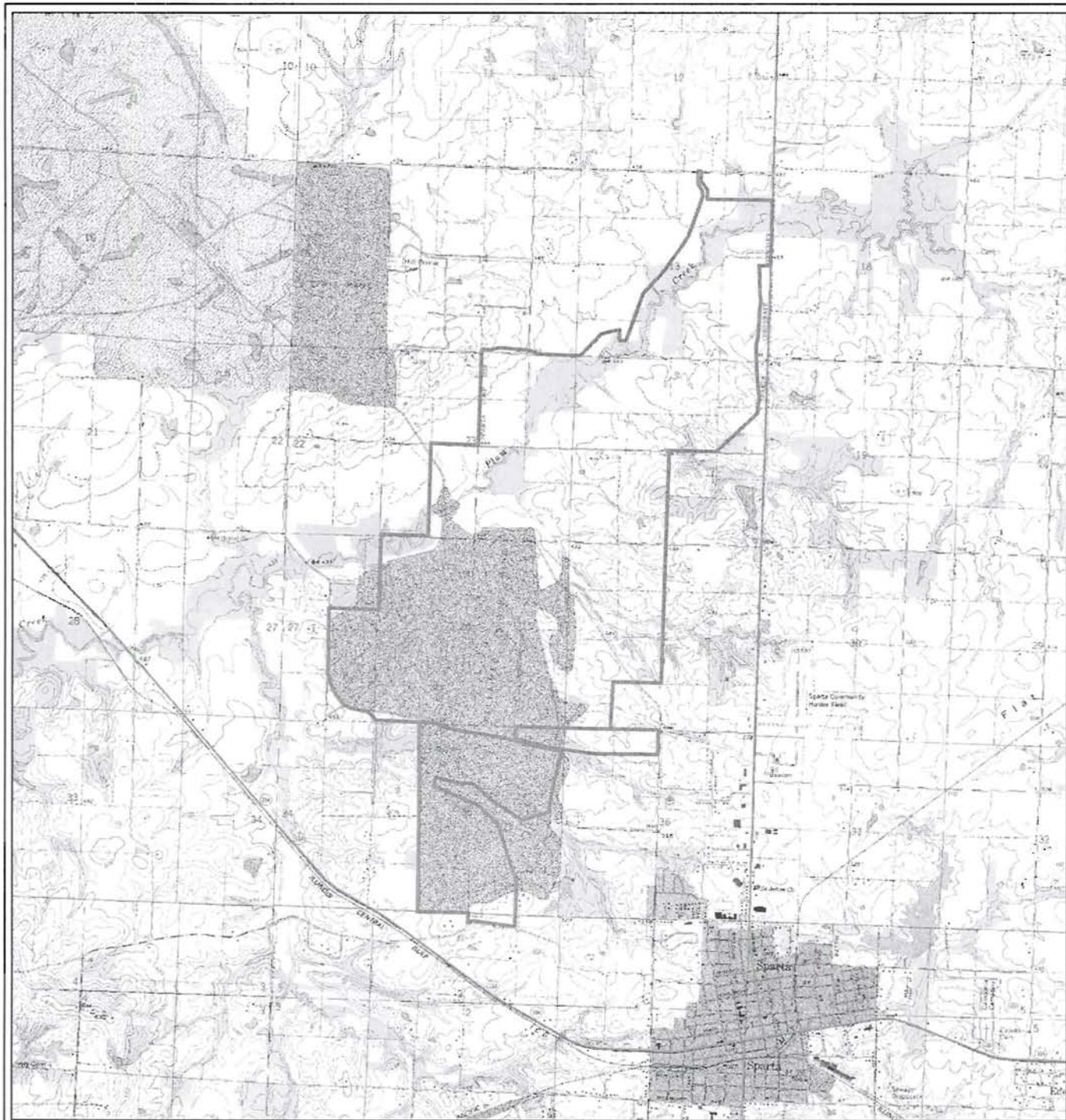
If you have any questions concerning this request, please do not hesitate to contact Ms. Warf at (317) 224-5964 or the undersigned at (217) 761-3794 or jonathan.casebeer@us.army.mil.

Sincerely,



Jonathan L. Casebeer
Chief, Environmental Branch

Enclosures



Legend

 Sparta Training Area

Illinois Army National Guard



Notes: Spatial Data courtesy of ILARNG and Illinois Natural Resources Geospatial Data Clearinghouse;
Projection: NAD 1983 UTM Zone 16N

**FIGURE 1
SITE LOCATION MAP**

**Integrated Natural Resources
Management Plan
Sparta Training Area
Randolph County, Illinois**

0 1,000 2,000
Meters



0 2,500 5,000 7,500
Feet



"No warranty is made by the ILARNG/NGB as to the accuracy, reliability, or completeness of these data for individual use or aggregate use with other data. This map is a "living document", in that it is intended to change as new data become available and is incorporated into the Enterprise GIS database."



Legend

-  Sparta Training Area
-  State Routes

Illinois Army National Guard



amec

Notes: Spatial Data courtesy of ILARNG and Illinois Natural Resources Geospatial Data Clearinghouse, Projection: NAD 1983 UTM Zone 16N

**FIGURE 2
PROJECT AREA MAP**

**Integrated Natural Resources
Management Plan
Sparta Training Area
Randolph County, Illinois**

0 250 500 1,000 1,500
Meters

0 2,000 4,000 6,000
Feet



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October 28, 2010

Environmental Branch

SUBJECT: Integrated Natural Resources Management Plan (INRMP) Update for the Sparta Training Area, Randolph County, Illinois

Ms. Anne Haaker
Deputy State Historic Preservation Officer
Preservation Services Division
Illinois Historic Preservation Agency
1 Old State Capitol Plaza
Springfield, Illinois 62701

Dear Ms. Haaker:

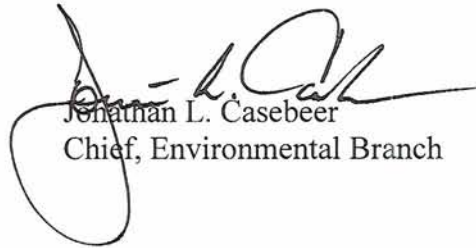
The Illinois Department of Military Affairs (DMAIL) is revising its Integrated Natural Resources Management Plan (INRMP) for the Sparta Training Area (STA). The STA is a 2,642 acre training site located in Sparta, Randolph County, Illinois approximately 45 miles southeast of St. Louis, Missouri (see enclosure). A revision is required on this plan every five years. The last revision was completed in September 2005. Prior to implementing this action, we wish to give your agency an opportunity to express any questions or concerns you may have regarding the STA INRMP.

As you may recall, the STA has been stripped mine and reclaimed prior to the State of Illinois ownership. Only a small 250 acre strip of low riparian environment has been undisturbed. This area abuts the active channel of Plum Creek which is now wooded with patchy undergrowth. This area typically floods every year and shovel tests have indicated soil profiles typical of a wet floodplain environment. The topography and stream conditions provide reason to expect that there are not any prehistoric or significant historic remains present in this area. An IHPA letter, log #002021804, agreed with these findings and concurred that no further archaeological work is necessary.

Therefore, DMAIL still believes that any further archaeological research within the STA is unnecessary. DMAIL continues to remain committed to comply with the Illinois Archaeological and Paleontological Resources Protection Act and the Human Skeletal Remains Protection Act.

If you would like to review the Sparta INRMP, please request a copy through my Environmental Office. Please feel free to contact my Cultural Resources Manager, Mr. Kip Troeger, with any questions or concerns that you may have. He can be reached at (217) 761-3735 or kip.troeger@us.army.mil.

Sincerely,



Jonathan L. Casebeer
Chief, Environmental Branch

Enclosure



July 30, 2004

Facilities and Engineering Directorate

Subject: Sparta Training Center, Randolph County, Sparta (IHPA Log 002021804)

Illinois Historic Preservation Agency
ATTN: Mr. Joseph Phillippe
Old State Capitol Plaza
Springfield, Illinois 62701-1507

Dear Mr. Phillippe:

The purpose of this correspondence is to request that no additional archeological work needs to be done for the Sparta Training Centers 2,700 acres. Only a small part of the area is left undisturbed that was not previously surveyed and mined and then reclaimed. Our Department has tremendous mapping which dates back prior to, during and post reclamation. I met with Dr. Brian Butler, Director and Senior Scientist at the Center for Archaeological Investigations, Southern Illinois University Carbondale. The purpose was to get an alternate bid for the undisturbed and unsurveyed property which is a 250 acre strip of low riparian environment that abuts the active channel of Plum Creek through the former mine area. He described this area as all wooded now and consists of relatively open wet woods with patchy undergrowth, most notably stinging nettles which floods almost every year, often to a depth of several feet, and several shovel tests showed variations of soil profiles typical of wet floodplain environments: compact silt or silty clay with manganese concretions and some gleying in a hole he dug. He also looked at some cutbacks where road drains emptied into the stream channel. These all showed deep alleviated profiles of silt and clay with no evident soil formation. In some places the corridor was timbered in the past and attempts made to extend cultivated fields to the creek channel, but these were all abandoned and the areas have been allowed to revert to forest. There are no standing structures in this corridor and probably never have been.

His conclusion from this examination was that there was no reason to undertake a formal archaeological survey in these 250 acres or riparian environment. The topography and stream conditions are such that there is no reasonable expectation of finding prehistoric or significant historic remains there, and an intensive shovel testing survey would be a huge waste of time and resources.

CONCUR
By: Anne E. Haaker

Deputy State Historic Preservation Officer

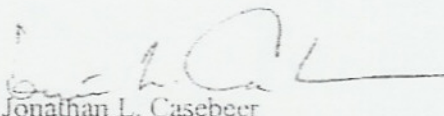
Date: October 19, 2004

There are several parcels of largely undisturbed farmland that abut the Plum Creek channel and extend away from it to slightly higher land surfaces within the creek valley. These were all subject to archaeological survey under Peabody ownership, and that can be verified from the state site files at the Illinois State Museum. I showed Dr. Butler the correspondence from the Illinois State Museum (Wiant) that documents these areas.

Therefore, our Department feels that we have demonstrated a good faith effort in researching and analyzing the potential for archeological sites in the undisturbed properties. With the information provided we believe that no significant historic, architectural or archeological areas are within the 2,700 acres. We will insure that we will brief the operations of the Illinois Human Skeletal Remains Protection Act and comply with an inadvertent discovery.

If you have any questions, feel free to call me at 761-3794.

Sincerely,



Jonathan L. Casebeer
Military Environmental Specialist

**PROGRAMMATIC INTER-AGENCY AGREEMENT
BETWEEN THE
ILLINOIS HISTORIC PRESERVATION AGENCY
AND THE
ILLINOIS DEPARTMENT OF MILITARY AFFAIRS
REGARDING IMPLEMENTATION OF THE
ILLINOIS STATE AGENCY HISTORIC RESOURCES PRESERVATION ACT**

WHEREAS, the Illinois Historic Preservation Agency (IHPA) has been designated as the lead agency responsible for implementation of the Illinois State Agency Historic Resources Preservation Act (Illinois Compiled Statutes, Chapter 20, para 3420/1 et seq.) (the Act); and

WHEREAS, the Illinois Department of Military Affairs (DMAIL) is responsible for the physical, administrative and fiscal management of State of Illinois military facilities and participates in undertakings as that term is defined in para 133c.23, Section 3(f) of the Act; and

WHEREAS, DMAIL is responsible for protecting and preserving archaeological and paleontological resources on public lands owned by DMAIL pursuant to the Illinois Archaeological and Paleontological Resources Protection Act (Illinois Compiled Statutes, Chap 20, para 3435/1 et seq.) (APRPA); and

WHEREAS, DMAIL has undertaken a historic and historical architecture survey of State of Illinois military facilities listed in Appendix A; and

WHEREAS, DMAIL and the Illinois Historic Preservation Agency (IHPA), the State of Illinois agency responsible for facilitation of the Act, agree that, on the date of execution of this agreement, that the State of Illinois military resources listed in Appendix B are either listed on or potentially eligible for listing on the National Register of Historic Places (NRHP); and

WHEREAS, DMAIL and IHPA agree that State of Illinois historic military resources listed in Appendix C will not be subject to IHPA review and comment in accordance with the Act, except for excessing or disposal undertakings of facilities (Appendix C); and

WHEREAS, DMAIL and IHPA agree that DMAIL requirements of Section 106 of the National Historic Preservation Act (NHPA) of 1966, as amended, supercedes this agreement.

WHEREAS, the Director of the IHPA is authorized under Section 5(d)(3) of the Act to help facilitate state agency compliance with the Act; and

WHEREAS, the Director of the IHPA wishes to enter into an agreement to facilitate compliance by DMAIL with the Act;

NOW, THEREFORE, DMAIL and IHPA concur that this agreement shall be implemented in accordance with the following stipulations to satisfy DMAIL's responsibilities under both Acts.

1. Personnel and Procedures

A. DMAIL shall have, at all times, on its staff at least one person with demonstrated training in federal and state cultural resource compliance statutes that addresses treatment of archaeology, architecture, architectural history, historic architecture, and history in the state of Illinois. At a minimum, training will consist of IHPA's "Section 106 Workshop: Guidelines for the Protection of Historic Property". This person shall be

responsible for administering the provisions of this agreement and shall be the designated liaison between DMAIL and IHPA. The Environmental Branch Chief shall be designated the DMAIL Historic Preservation Officer (HPO) for compliance coordination. The HPO may delegate historic compliance duties of this agreement to qualified and trained DMAIL staff.

B. DMAIL agrees to establish an internal undertaking reporting procedure. The DMAIL inter-agency liaison will forward undertaking notifications, and any IHPA requested supplemental documentation of undertakings, requiring review to IHPA for review and comment. The liaison will also ensure that adequate records are maintained as evidence of compliance with the Act. As necessary, the liaison shall ensure project coordination with the Illinois Capital Development Board for purposes of the Act.

2. Historic Military Resources.

A. For all structures included in Appendix B, DMAIL shall:

- 1) Undertake all developmental/budgetary planning, capital/maintenance projects and any other activities on the subject properties in accordance with the Secretary of Interior's Standards for Rehabilitation and Guidelines for Rehabilitating Historic Buildings (Standards) and other project specific Secretary of Interior's Standards and Guidelines, i.e. Cultural Landscapes, Archaeology, Documentation, etc.
- 2) When necessary, consult with IHPA during the project planning process for guidance on historic preservation treatments.
- 3) For capital projects, request that the Capital Development Board (CDB), in the "CDB Professional Services Bulletin Request for Qualifications Notifications" for projects on the subject resources, specify that proven experience on projects implementing the Standards is required for all Architectural and Engineering design bidders.
- 4) Ensure that DMAIL headquarters/regional capital programmers/project managers, site managers and any other DMAIL personnel or contractors involved with projects on the subject properties are adequately briefed and aware of DMAIL's responsibilities in accordance with the Act and the terms of this agreement.
- 5) Ensure that IHPA review and compliance staff is afforded the opportunity to review and comment on project scopes of work, design documentation and specifications for any work undertaken on the subject properties.
- 6) Information on archeological site locations exchanged between IHPA and DMAIL will be kept confidential, and will only be used for planning and compliance purposes outlined in this Agreement as appropriate, and as decided through mutual consent by IHPA and DMAIL.

B. DMAIL shall consider nominating the Illinois Historic Military Resources listed in Appendix B to The National Register of Historic Places as policy & resources allow. If any of the properties DMAIL nominates to The National Register of Historic Places are turned down, DMAIL will move them from Appendix B to Appendix C and manage them accordingly.

3. Archaeology

A. If, during any phase of planning, archaeological investigations, or consultation (which includes discussion of alternatives to the proposed undertaking), it is determined that the proposed undertaking will adversely impact archaeological resources, DMAIL reserves the right to discontinue the undertaking. DMAIL will notify IHPA of this decision in writing.

B. DMAIL reserves the right to cease undertakings at any time.

C. DMAIL shall ensure that archaeological investigations and coordination of undertakings required pursuant to the Acts are conducted following the procedures stated below:

1) As early as possible in the planning process, DMAIL shall provide the Archaeology Section of IHPA with undertaking narrative, and location and area-of-impact maps. IHPA will review the documents and will determine the need for a Phase I archaeological reconnaissance survey, except for those procedures and undertakings outlined in Section 5 of this Agreement.

2) DMAIL shall ensure that all phases of archaeological reconnaissance survey required by the IHPA pursuant to undertaking review are implemented. This survey shall be conducted in consultation with IHPA and take into account the IHPA Guidelines for Archaeological Reconnaissance Surveys/Reports. A report of the survey findings shall be submitted to IHPA for review and approval.

3) If, after consultation, DMAIL and IHPA determine that no National Register eligible or potentially eligible archaeological resources are present in the project area, or that the undertaking will not affect identified archaeological resources, no further work is required. IHPA will provide written notification of their determination to DMAIL.

4) If, after consultation, DMAIL and IHPA determine that the undertaking may negatively impact identified archaeological resources, the following procedures will be implemented:

a. A Phase II archaeological investigation will be necessary to evaluate the significance of the archaeological resource. IHPA will assist in preparing a scope-of-work statement for such testing and recommend to DMAIL qualified archaeological contractors to perform the work. DMAIL will ensure that Phase II investigations have been conducted prior to the 50% project review and the results submitted to IHPA for review and approval prior to the continuation of project planning. Phase II investigations will be monitored by IHPA for conformance with archaeological standards outlined in Section 3.C.(2) of this agreement. Results of Phase II investigations must include a recommendation for the eligibility for listing on the NRHP for each archaeological site tested. IHPA will comment on the results of Phase II testing and provide their comments to DMAIL in writing within 30 days of receiving the Phase II results.

b. If, after consultation, IHPA and DMAIL determine that the archaeological sites are not eligible for listing on the NRHP, no further archaeological work will be required. IHPA will notify DMAIL in writing of their determination.

c. If, after consultation, IHPA and DMAIL determine that a site or sites eligible for listing on the NRHP occur in the project area and will be adversely affected by the undertaking, IHPA and DMAIL will consult to determine appropriate action to mitigate the impact to the archaeological site(s). Mitigation shall include, but will not be limited to, data recovery for archaeological materials and/or preservation in place in a protected environment. Should data recovery be pursued, IHPA will assist in preparing a scope-of-work statement for Phase III investigations and recommend to DMAIL qualified archaeological contractors to perform the work, including fieldwork, survey, recovery and curation. DMAIL shall ensure that Phase III investigations are conducted at all archaeological sites that cannot be preserved in place. Phase III investigations will be monitored by IHPA for conformance with archaeological standards outlined in Section 3.C.2. of this agreement.

d. Results of Phase III investigations will be submitted to IHPA. IHPA will review the results and provide comments to DMAIL in writing within 30 days of receiving the Phase III results. If, after consultation, IHPA and DMAIL determine that the fieldwork phase of mitigation is complete, no further archaeological work will be required prior to construction start provided agreements are in place for completion of analysis, reporting and curation.

D. All archaeological investigations and personnel qualifications shall conform with Secretary of Interior Standards for Archaeology and Historic Preservation and professional qualifications under 36 CFR Part 61.

E. If, during an undertaking, archaeological resources are discovered, DMAIL agrees that activities affecting the archaeological resource(s) shall be discontinued at the location of the archaeological resource(s) until consultation with the IHPA pursuant to the Act is completed. Notification to the IHPA shall be made within 48 hours of discovery and shall be the responsibility of DMAIL.

1) DMAIL agrees to establish a system whereby DMAIL personnel supervising DMAIL undertakings on federal, state, or private property (such as military training operations) are made aware of the stipulations of this section of the agreement.

2) DMAIL supervisory personnel will brief all participants in DMAIL undertakings on their responsibilities in reporting any archaeological materials that may be encountered during such undertakings. Supervisors will be responsible for notifying the DMAIL cultural resource liaison at DMAIL as soon as possible should any archaeological material be discovered during an undertaking. Activities impacting newly discovered archaeological sites will be terminated or moved until consultation, evaluation and mitigation, if appropriate.

F. This agreement shall be a general permit to conduct archaeological and paleontological investigations on state lands owned, managed, and leased by DMAIL as required by APRPA in lieu of the issuance of individual permits when the project is being reviewed by the IHPA pursuant to the Act. This does not constitute a general permit under the Human Skeletal Remains Protection Act (Illinois Compiled Statutes, Chapter 20, para 3440/1 et seq.) (HSRPA). The DMAIL shall notify all archaeological contractors involved in archaeological investigations, and appropriate DMAIL personnel, on such projects that this permit is in effect. DMAIL shall ensure that all materials and records

resulting from the archaeological investigations are curated at the Illinois State Museum (ISM) pursuant to APRPA and HSRPA.

4. Undertakings Requiring Review

A. Undertakings requiring IHPA review will include, but not be limited to, the following classifications for the DMAIL structures listed in Appendix B:

- 1) Rehabilitation. Undertakings having a physical effect on buildings, structures, or sites listed in Appendix B shall be rehabilitated in accordance with the recommended approaches of the Secretary of the Interior's "Standards for Rehabilitation and Guidelines for Rehabilitating Historic Buildings" (Standards).
- 2) Additions. Additions to existing structures listed in Appendix B shall be designed to adhere to the Standards and National Park Service Preservation Brief #14, "New Exterior Additions to Historic Buildings".
- 3) Demolitions. If an undertaking requires demolition of all or any part of buildings or structures in the list in Appendix B, DMAIL will provide IHPA with the following information concerning the proposed demolition.
 - a. Reasons for demolition of the buildings or structures;
 - b. Alternatives considered, including reasons for their rejections;
 - c. Current photos of the buildings or structures demonstrating their present condition;
 - d. Structural report including rehabilitation cost.

If IHPA agrees to demolition, the property will be documented in accordance with Illinois Historic American Buildings Survey and Historic American Engineering Record (IL HABS/HAER) Standards in consultation with IHPA, and the documentation will be accepted by IHPA in writing prior to demolition.

If IHPA disagrees with the need for the proposed demolition, the rules in 17 Illinois Administrative Code 4180.400 shall be followed.

- 4) New construction and site development.
- 5) Land and building acquisition and disposal. Any land or buildings acquired or disposed of by DMAIL will be submitted to IHPA for review and comment in accordance with the Act.
- 6) Agricultural leases or DMAIL agricultural activities.

B. Initial documentation required by IHPA for project review.

- 1) Location map.
- 2) Site plan.

- 3) Photos of principle elevations and specific work areas to be rehabilitated or added to.
- 4) Scope of work statement/project description.
- 5) Description of any previous disturbance to the area.

5. Undertakings having no effect

A. The following undertakings that take place on public and private lands will be considered to have no effect on historic resources, as defined in the Act, and on archaeological resources, as defined by APRPA.

- 1) All interior and aboveground exterior rehabilitation or alteration to buildings or structures less than 50 years old.
- 2) Utilities repair and alteration; to include water, sewer, electrical, steam distribution, telecommunication, heating fuel, radio, television, and video/electronic security systems in a previously disturbed right-of-way or right-of-way previously reviewed by IHPA that resulted in a determination of no historic properties present.
- 3) Heating, ventilation, air conditioning (HVAC), communication network, and security systems maintenance undertakings not affecting the exteriors of buildings or structures.
- 4) Sidewalk, street, gutter, bikeway, vehicle parking repair and realignment within previously disturbed right-of-ways.
- 5) Upgrade or repair of existing internal fire/smoke detection, communication, security, electrical, and external fencing systems.
- 6) Landscape maintenance that will not hide or detract from the historical features of the area.
- 7) All maintenance caulking and painting of previously painted surfaces as long as colors specified match as close as possible to the original or existing colors and it does not detract from the historical significance of the property.
- 8) The installation of exterior or interior storm windows which completely fill the existing opening (no filler panels to be used); the method of operation and meeting rail of the storm unit will align with that of the existing window or, on the interior, a fixed piece of glazing with no intermediate members will be installed; the colors of the storm units will match that of the existing adjacent members.
- 9) Replacement or modification of non-original lighting fixtures or systems that will not alter or detract from the historical significance of the surrounding features.
- 10) Exact replacement in kind of all materials as required for maintenance purposes.
- 11) Utility line construction or rehabilitation with width equal to or less than one meter.

- 12) Grounds maintenance including mowing, pruning, seeding and any other non-ground disturbing activities.
- 13) Construction of lanes, paths, or other facilities where such construction takes place within existing public rights-of way.
- 14) Work on existing roads in urban areas where no more than 10 feet of additional right-of-way, or in rural areas where no more than 15 feet additional right-of-way, is required on either side of the road.
- 15) Projects that do not involve structures and are less than 2.5 acres in size where there is no previously recorded archaeological site.
- 16) Road widening equal to or less than one meter on either side of existing road bed.
- 17) Sanitary facilities and gray water discharge to include shallow burial by individuals to primitive pit type of toilets to be filled and put back to near original condition.
- 18) Defense emplacements including fox holes, bunkers and gun emplacements, not to exceed 2.5 acres of impact at any given project location where there is no previously recorded archaeological site.
- 19) Wheeled vehicle maneuvering cross-country, excluding stream crossings.
- 20) Post hole and fencing construction.
- 21) Removal of soil due to contamination from a spill of petroleum or petroleum-like products.
- 22) Utility line construction or rehabilitation with width equal to or less than one meter.
- 23) Project areas where previous archaeological assessments have determined either no or nonsignificant resources are present and have been reviewed and approved by the IHPA.
- 24) Projects within areas of documented land disturbance and not involving structures, and having no potential for buried archaeological resources. DMAIL will consult with IHPA when activities that may satisfy these criteria are to be implemented.
- 25) Other. Any activity that does not constitute removal of soil greater than 8 inches below the surface over an area less than 2.5 acres. DMAIL will consult with IHPA when activities that may satisfy this criterion are to be implemented. DMAIL will keep a list of such activities and these will be reviewed for possible amendment to this Agreement during the Agreement review period outlined in Section 9.A.

B. For undertakings that take place on public land, as defined in APRPA, DMAIL agrees undertakings 11, 14, 15, 16, 18, 24 and 25 from Section 5.A that are considered to have no effect, shall not occur within 15 meters of previously known historic resources,

including historic districts, historic sites, archaeological resources, and known human burial sites or grave markers as defined in HSRPA.

C. To ensure that all other undertakings that have a potential to impact archaeological resources not listed in Section 5.A. and those undertakings listed in Section 5.B. that will occur within 15 meters do not adversely impact archaeological resources on public land, DMAIL agrees to provide IHPA with all documentation required in Section 4.B. of this Agreement for each undertaking until one of the following conditions are met for the project area:

1) The project area has been reviewed at least once by IHPA, and IHPA has provided comments indicating that no historic resources or archaeological resources sites will be adversely affected by the project;

2) DMAIL has established a procedure with the Illinois State Museum to access the Illinois Geological Information System (IGIS) to obtain locations of archaeological sites on DMAIL land for the project area.

D. For all undertakings on public lands that DMAIL does not submit to IHPA for review, DMAIL will keep a project log containing, at a minimum, undertaking description and justification for IHPA review exemption when an undertaking is associated with a building that is listed, or is eligible for listing, on the NRHP (appendix B contains the DMAIL structures listed and potentially eligible for listing, as of the date of signing of this Agreement), or when there is a potential for impact to archaeological resources. This log shall be open for IHPA review upon request.

6. Monitoring and oversight.

A. DMAIL shall maintain undertaking files for a period of two years after undertaking completion, for undertakings performed pursuant to the Agreement. These undertaking files shall be kept current and available for IHPA review at any time. After two years the undertaking files may be destroyed, unless an undertaking is ongoing, or the retention of files is deemed necessary by DMAIL.

B. Periodically, IHPA shall perform on-site inspections of the undertakings and review undertaking files to ensure adherence with this Agreement.

7. In instances where DMAIL will be coordinating with other state and/or federal agencies for permitting, funding, and/or use of public lands, DMAIL will proceed with the provisions of this Agreement, and, when that undertaking requires IHPA review pursuant to the stipulations in the Agreement, notify IHPA that coordination with the other agencies has been initiated. For undertakings requiring IHPA review, DMAIL will specify which agency is to be the lead agency in consultation with IHPA for the appropriate cultural resource compliance laws.

8. Undertakings associated with emergency activities shall proceed pursuant to Section 4(g) of the Act. An undertaking that is necessary to prevent an immediate and imminent threat to life or property shall be exempt from the requirements of this Act. Where possible, IHPA shall be consulted in the determination of the exemption. To the greatest extent possible, DMAIL shall informally consult with IHPA to take historic resources into account during emergency action. In all cases, DMAIL shall provide IHPA with a statement of the reasons for the exemption and stipulate what attempts were made to consider historic resources. IHPA shall have an opportunity to comment on the exemption and action taken. The statement and the comments shall be included in the review period of this Agreement as a guide to future actions.

9. General provisions.

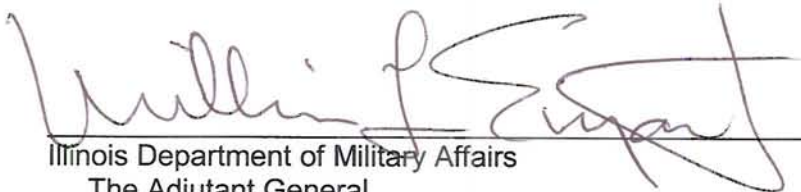
A. The Agreement shall remain in effect for state fiscal years 2009-2015. At that time it shall be reviewed for possible modification and extension.

B. The Agreement may be modified or amended in whole or in part at any time during its term, provided IHPA and DMAIL mutually agree to modifications or amendments in writing.

C. If any portion of the Agreement is found to be invalid by a court of competent jurisdiction or is nullified by subsequent action of the General Assembly, the remaining parts of the Agreement shall remain in full force and effect.

D. The Agreement may be revoked by either party at any time provided 90 days notice is given to the other party. In such instance, the regular procedures for compliance in accordance with Title 17, Chapter 6, Section 4180 of the Illinois Administrative Code shall apply.


10. Execution of the Agreement and carrying out of its terms evidences DMAIL has initiated adequate procedures for compliance with the Illinois State Agency Historic Resources Preservation Act.



Illinois Department of Military Affairs
The Adjutant General

9 July 09

Date



Illinois Historic Preservation Agency
Director

7-9-09.

Date

APPENDIX A

Illinois Department of Military Affairs Historic Properties Surveyed as of May 2008.

01. Bloomington Armory
02. Cairo Armory
03. Camp Lincoln – Springfield
04. Carbondale Armory
05. Champaign Armory
06. Broadway Armory – Chicago (Property was sold to Chicago Park District October 1998)
07. Calumet Avenue Armory - Chicago
08. General Richard L. Jones Armory - Chicago
09. Midway Airport Armory - Chicago
10. North Riverside Maintenance Center and Training Site - Chicago
11. Northwest Armory - Chicago
12. Danville Armory
13. Delavan Armory
14. Dixon Armory
15. East St. Louis Armory
16. Effingham Armory
17. Elgin Armory
18. Freeport Armory
19. Galesburg Armory
20. Galva Armory
21. Joliet Armory
22. Kewanee Armory
23. Lawrenceville Armory
24. Litchfield Armory
25. Macomb Armory
26. Mattoon Armory
27. Monmouth Armory
28. Mount Vernon Armory
29. Paris Armory
30. Peoria Aviation Facility
31. Pontiac Armory
32. Rock Falls Armory
33. Charles L. McMackin II Armory - Salem
34. Streator Armory
35. Sullivan Armory
36. Sycamore Armory
37. Urbana Armory
38. Waukegan Armory
39. West Frankfort Armory

APPENDIX B

Illinois Department of Military Affairs Historic Structures Listed on or Potentially Eligible for Listing on The National Register of Historic Places

Structures listed on The National Register of Historic Places

Camp Lincoln Commissary – Springfield 1903

Structures Potentially Eligible for Listing on The National Register of Historic Places

01.	Cairo Armory	1931
02.	General Richard L. Jones Armory – Chicago	1931
03.	Midway Airport Armory – Chicago	1940
04.	Northwest Armory – Chicago	1940
05.	Dixon Armory	1938
06.	Effingham Armory	1958
07.	Elgin Armory	1938
08.	Kewanee Armory	1951
09.	Mount Vernon Armory	1938
10.	Paris Armory	1954
11.	Charles Lincoln McMackin II Armory – Salem	1938
12.	Sullivan Armory	1954
13.	Urbana Armory	1938
14.	Waukegan Armory	1938

APPENDIX C

List of Illinois Department of Military Affairs Historic Structures **not subject** to Review and Comment Under the Act Due to Diminished Historical Integrity at the Time of Execution of the Subject Programmatic Inter-Agency Agreement.

This Appendix only includes DMAIL properties that were constructed on or before 1960. Any other DMAIL structure constructed after 1960 is also not subject to review and comment under the Act as stated in Section 5 of this agreement.

Structures subject to IHPA review and comment in the event of excessing or disposal of the property.

01.	Carbondale Armory & OMS	1938
02.	Champaign Armory	1939
03.	Chicago - Calumet Avenue	1960
04.	Delavan Armory	1939
05.	Freeport Armory	1958
06.	Joliet Armory	1958
07.	Lawrenceville Armory	1939
08.	Litchfield Armory	1958
09.	Macomb Armory	1954
10.	Mattoon Armory	1956
11.	North Riverside Maintenance Center and Training Site	1949
12.	Peoria Armory, OMS & Army Aviation Support Facility	1947-48
13.	Pontiac Armory	1939
14.	Rock Falls Armory	1956
15.	Streator Armory	1938
16.	Sycamore Armory	1938
17.	West Frankfort Armory	1958



United States Department of the Interior

FISH AND WILDLIFE SERVICE

Marion Illinois Sub-Office (ES)

8588 Rout 148

Marion, IL 62959

(618) 997-3344

December 17, 2010

Ms. Jennifer Warf
 AMEC Earth & Environmental, Inc.
 201 South Capitol Avenue, Suite 200
 Indianapolis, IN 46225

Dear Ms. Warf,

This is in reference to your November 8, 2010, letter requesting any new information the Fish and Wildlife Service (Service) may have to update the Integrated Natural Resources Management Plan (INRMP) for the Illinois Army National Guard (ILARNG) Sparta Training Area (STA) in Randolph County, Illinois. These comments are provided under the authority of and in accordance with the provisions of the Fish and Wildlife Coordination Act (48 Stat. 401, as amended; 16 U.S.C. 661 et seq.); the Endangered Species Act of 1973, as amended; and, the National Environmental Policy Act.

To facilitate compliance with Section 7(c) of the Endangered Species Act of 1973, as amended, Federal agencies are required to obtain from the Fish and Wildlife Service (Service) information concerning any species, listed or proposed to be listed, which may be present in the area of the STA. Therefore, we are furnishing you the following updated list of species which have ranges that include the STA.

<u>Classification</u>	<u>Common Name (Scientific Name)</u>	<u>Habitat</u>
Endangered	Indiana bat (<i>Myotis sodalis</i>)	Caves, mines; small stream corridors with well developed riparian woods; upland and bottomland forests
Endangered	Least tern (<i>Sterna antillarum</i>)	Bare alluvial and dredge spoil islands
Endangered	Pallid sturgeon (<i>Scaphirhynchus albus</i>)	Large rivers
Threatened	Small whorled pogonia (<i>Isotria medeoloides</i>)	Dry woodlands

There is no designated critical habitat in the project area at this time.

Although the bald eagle has been removed from the threatened and endangered species list, it continues to be protected under the Migratory Bird Treaty Act and the Bald and Golden Eagle Protection Act (BGEPA). The Service developed the National Bald Eagle Management (NBEM) Guidelines to provide landowners, land managers, and others with information and recommendations regarding how to minimize potential project impacts to bald eagles, particularly where such impacts may constitute "disturbance," which is prohibited by the BGEPA. We recommend that the National Bald Eagle Management (NBEM) Guidelines be incorporated into the updated INRMP and implemented to minimize potential project impacts to bald eagles. A copy of the NBEM Guidelines is available at:

<http://www.fws.gov/migratorybirds/CurrentBirdIssues/Management/BaldEagle/NationalBaldEagleManagementGuidelines.pdf>

Information in the 2005-2010 INRMP (Table 15) indicates that Indiana bat surveys would be implemented in 2006, 2008, and 2010. If any of these surveys were completed we would like to receive a copy of the results prior to reviewing the updated INRMP. In addition, we would like to receive copies of any aquatic, fauna, and flora surveys conducted since the last INRMP and a copy of the forest management plan if it has been completed.

Thank you for the opportunity to provide new information for the update to the INRMP. If you have any questions, please contact Matt Mangan of my staff at (618) 997-3344, ext. 345.

Sincerely,



For Joyce A. Collins
Assistant Field Supervisor

cc: IDNR (Kemper)
USFWS (Elkington)



United States Department of the Interior

FISH AND WILDLIFE SERVICE

Rock Island Field Office
1511 47th Avenue
Moline, Illinois 61265
(309) 757-5800

August 28, 2012

Mr. Jonathon L. Casebeer
Illinois Dept. of Military Affairs
1301 N. MacArthur Boulevard
Springfield, Illinois 62702-2317

Dear Mr. Casebeer:

This is in reference to your letter dated June 12, 2012, requesting concurrence from the U. S. Fish and Wildlife Service (Service) that the proposed implementation of the June 2012, Illinois Army National Guard (ILARNG) Integrated Pest Management Plan (IPMP) is not likely to adversely affect any federally listed endangered species. The IPMP covers all ILARNG facilities statewide including two training areas, the Sparta Training Area (STA) and the Marseilles Training Area (MTA). These comments are provided by the Marion, Rock Island, and Chicago Field Offices under the authority of and in accordance with the provisions of the Fish and Wildlife Coordination Act (48 Stat. 401, as amended; 16 U.S.C. 661 *et seq.*); the Endangered Species Act of 1973 (87 Stat. 884, as amended; 16 U.S.C. 1531 *et seq.*); the Migratory Bird Treaty Act (40 Stat. 755, as amended; 16 U.S.C. 703 *et seq.*) and, the National Environmental Policy Act (83 Stat. 852, as amended P.L. 91-190, 42 U.S.C. 4321 *et seq.*).

To facilitate compliance with Section 7(c) of the Endangered Species Act of 1973, as amended, Federal agencies are required to obtain from the Fish and Wildlife Service (Service) information concerning any species, listed or proposed to be listed, which may be present in the area of the proposed action. A current list of species in Illinois by county can be found at the following website: <http://www.fws.gov/midwest/endangered/lists/illinois-cty.html>. There is no designated critical habitat in the project areas at this time.

Section 4.0 Integrated Pest Management (IPM)

According to the IPMP, integrated pest management is the use of multiple techniques to prevent or suppress pests in a given situation. Although integrated pest management emphasizes the use of non-chemical strategies (mechanical and physical control, cultural control, biological control), chemical control may be an option used in conjunction with other methods. The Service is concerned that the use of chemical controls may have direct or indirect impacts to the endangered Indiana bat (*Myotis sodalis*), especially if applied in forested habitats or over aquatic habitats including streams and wetlands. Direct effects could include ingestion from feeding on

insects that have ingested the chemicals or through ingestion of water that contains chemicals. Indirect effects could occur if chemicals impact terrestrial or aquatic insect populations to a significant degree. As the ILARNG continues to develop the specific Integrated Pest Management Plan, the Service recommends the plan contain detailed information on any restrictions on chemical use that would mitigate impacts to environmentally sensitive areas and a description of any direct or indirect impacts of the chemical use on federally listed endangered or threatened species.

For example, one of the chemical controls for mosquitos (Malathion) is toxic to fish, aquatic invertebrates, and aquatic life stages of amphibians. The Material Safety Data Sheet (MSDS) and specimen label for Malathion indicates it is for terrestrial uses and is not to be applied directly to water, or to areas where surface water is present, and drift and runoff may be hazardous to aquatic organisms in areas near the application site.

Section 5.3.2 Birds

This section mentions that on occasion bats may also roost in structures. The state endangered rafinesque's big-eared bat is known to roost in structures and the federally endangered Indiana bat has been documented roosting in buildings although it is considered uncommon. If the ILARNG is considering management or control of bats in structures, the Service recommends an additional Integrated Pest Management Outline be developed to describe what management techniques or control methods will be implemented. This outline should be provided to the Service for review if developed.

Section 5.4 Noxious and Invasive Plants

The Service recommends the ILARNG coordinate with the local Cooperative Weed Management Area (CWMA) partnership to address the threat of invasive plants. Two of the CWMA's in Illinois are the River to River Partnership (<http://www.rtrcwma.org/>) and Northeast Illinois Invasive Plant Partnership (<http://niipp.net/>).

Section 7.2.2 Migratory Birds

The Service recommends the ILARNG also coordinate with the US Department of Agriculture (USDA) Wildlife Services Office in Springfield, IL, in cases where control of migratory birds is required. The USDA Wildlife Services staff is familiar with control solutions and is able to coordinate quickly with the Migratory Bird permitting office for Region 3 of the Service.

Integrated Pest Management Outline No. 23, Pest : Birds

The Service recommends that the ILARNG differentiate between migratory birds protected under the Migratory Bird Treaty Act from birds that are not protected.

Integrated Pest Management Outline No. 27, Pest: Snakes

Several snake species are listed as state threatened or endangered in Illinois and the eastern massasauga rattlesnake (*Sistrurus catenatus*) is a federal candidate species. The Service

recommends that personnel performing snake control or removal be given training on snake identification in order to avoid killing any listed species. In addition, the Service recommends that facility personnel be encouraged to avoid killing any snakes. A list of state endangered and threatened species by county is available at:

<http://www.dnr.state.il.us/conservation/naturalheritage/inhd.htm>

Integrated Pest Management Outline No. 33, Pest: Grasses and Herbaceous Vegetation & Integrated Pest Management Outline No. 34, Pest: Grapevines and Unwanted Trees

The Service concurs with using prescribed burning as a method to promote natural vegetation, control non-native and invasive species, and to prepare a site for planting. However, the Service recommends such burns be scheduled in order to minimize overall impacts to wildlife resources. For example, burning grassland areas during the April to August period will likely adversely impact ground nesting birds. In addition, smoke from burns conducted during this time may impact roosting bat species or forest nesting birds. Therefore, the Service recommends prescribed burns occur outside the April 1 to September 30 time period when ground nesting birds, foresting nesting birds, and roosting bat species such as the endangered Indiana bat are not likely to be present. In addition, the Service recommends mowing for hay be avoided from April through August to avoid impacting ground nesting birds.

The Service also concurs with using timber stand improvement (TSI) practices as a method to maintain and enhance forested habitats. However, the Service recommends methods such as selective cutting be scheduled in order to minimize overall impacts to wildlife resources. For example, selective cutting during the summer time period may adversely impact foresting nesting birds and roosting bat species. Therefore, the Service recommends selective cutting occur outside the April 1 to September 30 time period when forest nesting birds and roosting bat species such as the endangered Indiana bat are not likely to be present. If it is necessary to clear trees during the April 1 to September 30 time frame, then the Service would recommend an Indiana bat habitat assessment and possibly a mist net survey be conducted in order to assess the value of the habitat to Indiana bats and to ascertain whether they occur in the area.

The Service also recommends that a detailed forest management plan be developed for the ILARNG facilities implementing forest management practices and that the plans include detailed objectives to improve site conditions for migratory birds and forest dependent bat species, such as the Indiana bat. The plan would also specify mitigative actions that would be taken to avoid impacting these species such as the recommendations described above. This type of plan was recommended for the STA as part of the Integrated Natural Resources Management Plan (INRMP) review in 2005. In July, 2012, Indiana bats were captured during a bat survey at the STA. This further emphasizes the need for a detailed forest management plan at STA. If any forest management plans are developed we request a copy be provided to appropriate Service office for review. A list of counties and the responsible field office is available at:

http://www.fws.gov/midwest/es/fld_off.html

Appendix C Illinois Points of Contact

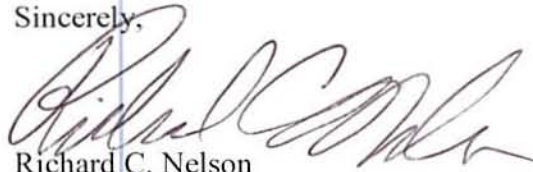
The Service recommends adding the United States Department of Agriculture Wildlife Services to the contacts list. The State Director is Scott Beckerman and his number is 1-217-241-6700.

Conclusion

Overall, the Service finds the IPMP adequate to achieve protection and enhancement of fish and wildlife resources while striving to achieve the ILARNG goals for integrated pest management. Provided the above recommendations are incorporated, the Service concurs that the proposed implementation of the IPMP is not likely to adversely affect any known federally listed or proposed threatened or endangered species and concurs with the ILARNG's Finding of No Significant Impact (FNSI). Should this project be modified or new information indicate listed or proposed species may be affected, consultation or additional coordination with this office, as appropriate, should be initiated.

Thank you for the opportunity to provide information concerning threatened and endangered species. For additional coordination, please contact Matt Mangan at (618) 997-3344, ext. 345.

Sincerely,



Richard C. Nelson
Field Supervisor

cc: FWS (Mangan, Woeber, Redmer)



United States Department of the Interior



U.S. FISH AND WILDLIFE SERVICE
Marion Illinois Sub-Office (ES)
8588 Route 148
Marion, Illinois 62959
(618) 997-3344

May 7, 2013

Mr. Jonathan L. Casebeer
Department of Military Affairs
1301 N. MacArthur Boulevard
Springfield, Illinois 62702-2399

Dear Mr. Casebeer:

Thank you for your letter dated March 1, 2013, requesting review of the updated Integrated Natural Resource Management Plan (INRMP) for the Illinois Army National Guard (ILARNG) Sparta Training Area (STA), located in Randolph County, Illinois. These comments include those from our Carterville Fish and Wildlife Conservation Office (Carterville FWCO) and are provided under the authority of and in accordance with the provisions of the Fish and Wildlife Coordination Act (48 Stat. 401, as amended; 16 U.S.C. 661 *et seq.*); the Endangered Species Act of 1973 (87 Stat. 884, as amended; 16 U.S.C. 1531 *et seq.*); the Migratory Bird Treaty Act (40 Stat. 755, as amended; 16 U.S.C. 703 *et seq.*) and, the National Environmental Policy Act (83 Stat. 852, as amended P.L. 91-190, 42 U.S.C. 4321 *et seq.*).

Below our comments on the Draft Updated INRMP:

- Page 69, Section 6.5.3.1 (Stream Crossings): Regarding low-water stream crossings (LWSC), the Service recommends that any future effort to improve existing LWSC or construct additional LWSC should not result in a reduction of passage opportunity for fish and other aquatic organisms.
- Page 81, Section 6.8.1 (Forest Management) and 6.8.1.1 (Timber Stand Improvement): In our letters dated January 25, 2005 and May 11, 2005, in reference to the 2005 STA INRMP, we recommended a forest management plan be developed that would provide for improved conditions for migratory birds and forest dependent bat species (i.e., Indiana bat), including measures to be taken to avoid impacting these species during selective tree cutting.

According to the INRMP, the ILARNG will prepare a detailed forest management plan for the STA prior to implementation of any substantial project within the existing bottomland forested area along Plum Creek. The Service continues to recommend that a forest management plan be developed for STA and recommends that the plan not only address substantial projects but also address minor projects that could result in the cumulative loss of forested habitat at STA. The need for a forest management plan is

further emphasized by the recent capture of Indiana bats on STA. In addition, the Service recommends that the ILARNG consult with the Service prior to implementing any tree clearing activities and that the tree clearing dates be limited to October 15 to March 31. The October 15 date is based on the assumed presence of a maternity colony at STA and new survey results documenting the use of maternity roost trees into mid-October.

- Page 82, Section 6.8.1.2 (Riparian Corridor Enhancement along Lake Edges): According to the INRMP, invasive black locust trees will be cut along lake boundaries and replaced with native oak, hickory, walnut, pine (*Dacrydium spp.*), and cypress (*Cupresses spp.*) trees. Although we concur with the use of native oak, hickory, and walnut tree species, the Service recommends the planting of non-native species (i.e. *Dacrydium spp.*) be avoided. The Service supports the use of native species and recommends the tree species planted include primarily hard mast or fruit bearing species so that overall wildlife benefits may be maximized. The following link can be used as a reference for establishing riparian forest buffers along lake boundaries.
<http://efotg.sc.egov.usda.gov/references/public/IL/riparian.pdf>
- Page 90, Section 6.11 (Integrated Pest Management): In our letter dated May 11, 2005, we indicated that it was unclear whether a site specific Integrated Pest Management Plan (IPMP) would be developed for the STA or whether a statewide IPMP would be implemented. According to the INRMP, integrated pest management at STA will be accomplished through the implementation of the Illinois Army National Guard IPMP. The Service has reviewed the ILARNG IPMP and provided a response letter on August 28, 2012.
- Page 91 and 92, Section 6.11.2 (Management Strategies): The following links can be used as references for developing BMPs to control the spread of invasive and exotic species and noxious weeds.
http://www.fs.fed.us/rangelands/ftp/invasives/documents/GuidetoNoxWeedPrevPractices_07052001.pdf
http://www.fs.usda.gov/Internet/FSE_DOCUMENTS/stelprdb5412822.pdf
http://www.weedcenter.org/store/docs/CIPM_prevention.pdf
<http://council.wisconsinforestry.org/invasives/>
- Page 103, Section 6.11.7 (Aquatic Pests): Recommend coordinating with the Carterville Fish and Wildlife Conservation office on a control plan for bighead, black, grass, and silver carp. The following link provides additional reference material on protecting your waters and stopping aquatic hitchhikers.
<http://www.protectyourwaters.net/>
- Page 129, Table 17, Project 23 (Indiana Bat Survey): According to the table, the project will consist of mist netting or radio telemetry studies for bats at STA to monitor the Indiana bat population and roosting habitat. A mist net survey conducted in the summer of 2012 resulted in the capture of 14 Indiana bats and suggests that a maternity colony is present on STA or in the surrounding areas. The Service concurs that additional surveys be conducted at STA and requests that telemetry data be collected in order to further ascertain the size of the maternity colony that may be utilizing the base, the extent of

Indiana bat foraging activities on the base and whether the maternity colony is utilizing roost trees on the base or at some other nearby location.

Integrated Wildland Fire Management Plan (Appendix D)

- Page 13, Section 1.12 (Natural and Cultural Resource Considerations): The Service concurs with using prescribed burning as a method to promote natural vegetation and to control non-native and invasive species; however, we recommend such burns be scheduled in order to minimize overall impacts to wildlife resources. The Service recommends incorporating language into the IWFMP from page 86 and 87 of the INRMP regarding practices that can be taken to avoid impacts to ground and forest nesting birds and roosting bats. Specifically lines 33 and 34 on page 86 and lines 8, 9, and 10 on page 87.
- Page 15, Section 1.21 (Environmental Assessment): The IWFMP is described as being included as Appendix E of the 2012 Updated INRMP. This statement should be revised to Appendix D of the 2013 Updated INRMP.

Thank you for the opportunity to provide comments on the Draft INRMP Update. We look forward to reviewing the final version of the Sparta Training Area INRMP Update. If you have any questions, please contact me at (618) 997-3344, ext. 345.

Sincerely,

/s/ Matthew T. Mangan

Matthew T. Mangan
Biologist in Charge

cc: IDNR (Kemper, Miller)



Illinois Department of Natural Resources

One Natural Resources Way Springfield, Illinois 62702-1271
<http://dnr.state.il.us>

Pat Quinn, Governor
Marc Miller, Director

May 23, 2013

Mr. Jonathan L. Casebeer
Department of Military Affairs
1301 N. MacArthur Boulevard
Springfield, Illinois 62702-2399

Dear Mr. Casebeer:

Thank you for providing the Department with the opportunity to review the draft Integrated Natural Resources Management Plan Update for the Illinois Army National Guard (ILARNG) Sparta Training Area (STA), located in Randolph County, Illinois. We commend the Guard for its comprehensive approach to managing the natural resources at the STA.

Our only recommendation is that, in addition to the management strategy in place for the federal- and state-listed Indiana Bat, you develop and include management strategies for the five state-listed species you have identified as occurring on the site: the Loggerhead Shrike, Northern Harrier, Ornate Box Turtle, Smooth Softshell, and Shortleaf Pine. The Department would like INRMP to specify the protective measures that will be implemented to avoid, minimize or mitigate adverse effects from activities at the STA. In particular, how will you avoid taking a state protected species, particularly during nesting season?

We look forward to reviewing the final version of the Sparta Training Area INRMP Update. Please call if you have any questions.

Sincerely,

Karen Miller
Office of Realty and Environmental Planning

Comment #				Sparta Training Site INRMP Errata Sheet	Reviewer	Office	ILARNG Responses
	Section	Page	Line				
1	6.5.3.1	69		Regarding low-water stream crossings (LWSC), the Service recommends that any future effort to improve existing LWSC or construct additional LWSC should not result in a reduction of passage opportunity for fish and other aquatic organisms.	M. Mangan	USFWS	The following sentence has been added at the end of the last paragraph in Section 6.5.3.1 that discusses obtaining appropriate permits and BMPs for LWSCs: "Furthermore, existing and future LWSCs will be designed to ensure the passage of fish and other aquatic organisms are not hindered."
2	6.5.3.1 & 6.8.11	81		In our letters dated January 25, 2005 and May 11, 2005, in reference to the 2005 STA INRMP, we recommended a forest management plan be developed that would provide for improved conditions for migratory birds and forest dependent bat species (i.e., Indiana bat), including measures to be taken to avoid impacting these species during selective tree cutting. According to the INRMP, the ILARNG will prepare a detailed forest management plan for the STA prior to implementation of any substantial project within the existing bottomland forested area along Plum Creek. The Service continues to recommend that a forest management plan be developed for STA and recommends that the plan not only address substantial projects but also address minor projects that could result in the cumulative loss of forested habitat at STA. The need for a forest management plan is further emphasized by the recent capture of Indiana bats on STA. In addition, the Service recommends that the ILARNG consult with the Service prior to implementing any tree clearing activities and that the tree clearing dates be limited to October 15 to March 31. The October 15 date is based on the assumed presence of a maternity colony at STA and new survey results documenting the use of maternity roost trees into mid-October.	M. Mangan	USFWS	Comment Noted. ILARNG concurs and has the FMP listed as Project #16 in Table 17. Given the recent capture of Indiana bats at STA, funding for this project will be more easily attainable to ensure ESA compliance. The reference to preparing this plan "prior to implementing any substantial projects" has been modified. In addition, references to tree clearance dates and other management measures tied to the roosting season have been updated throughout the document (i.e., mid-October instead of 1 October).
3	6.8.1.2	82		According to the INRMP, invasive black locust trees will be cut along lake boundaries and replaced with native oak, hickory, walnut, pine (<i>Dacrydium</i> spp.), and cypress (<i>Cupresses</i> spp.) trees. Although we concur with the use of native oak, hickory, and walnut tree species, the Service recommends the planting of non-native species (i.e. <i>Dacrydium</i> spp.) be avoided. The Service supports the use of native species and recommends the tree species planted include primarily hard mast or fruit bearing species so that overall wildlife benefits may be maximized. The following link can be used as a reference for establishing riparian forest buffers along lake boundaries. http://efotg.sc.egov.usda.gov/references/public/IL/riparian.pdf	M. Mangan	USFWS	The incorrect species name has been corrected to <i>Pinus</i> spp. We have added a bullet that hard mast or fruit bearing species are preferred when possible. In addition, a reference to this link has been added.

Comment #				Sparta Training Site INRMP Errata Sheet	Reviewer	Office	ILARNG Responses
	Section	Page	Line				
4	6.11	90		In our letter dated May 11, 2005, we indicated that it was unclear whether a site specific Integrated Pest Management Plan (IPMP) would be developed for the STA or whether a statewide IPMP would be implemented. According to the INRMP, integrated pest management at STA will be accomplished through the implementation of the Illinois Army National Guard IPMP. The Service has reviewed the ILARNG IPMP and provided a response letter on August 28, 2012.	M. Mangan	USFWS	Integrated pest management will be addressed for STA through the statewide IPMP. The Services' letter from August 2012 is included in Appendix F .
5	6.11.2	91&92		The following links can be used as references for developing BMPs to control the spread of invasive and exotic species and noxious weeds. http://www.fs.fed.us/rangelands/ftp/invasives/documents/GuidetoNoxWeedPr evPractices_07052001.pdf http://www.fs.usda.gov/Internet/FSE_DOCUMENTS/stelprdb5412822.pdf http://www.weedcenter.org/store/docs/CIPM_prevention.pdf http://council.wisconsinforestry.org/invasives/	M. Mangan	USFWS	Comment noted. These links are included in the 2009 STA Vegetation Survey Report, which is referenced at the end of the 4th paragraph in Section 6.11.3 . This Report along with the INPC Vegetation Management Manual are referenced here for more information.
6	6.11.7	103		Recommend coordinating with the Carterville Fish and Wildlife Conservation office on a control plan for bighead, black, grass, and silver carp. The following link provides additional reference material on protecting your waters and stopping aquatic hitchhikers. http://www.protectyourwaters.net/	M. Mangan	USFWS	The following has been added to the 3rd paragraph in this section in response to your comment along with a reference to the provided website: " Prior to implementing any management actions or control measures, ILARNG will coordinate with the USFWS Carterville Fish and Wildlife Conservation office. "
7	Table 17	129		Project 23 (Indiana Bat Survey): According to the table, the project will consist of mist netting or radio telemetry studies for bats at STA to monitor the Indiana bat population and roosting habitat. A mist net survey conducted in the summer of 2012 resulted in the capture of 14 Indiana bats and suggests that a maternity colony is present on STA or in the surrounding areas. The Service concurs that additional surveys be conducted at STA and requests that telemetry data be collected in order to further ascertain the size of the maternity colony that may be utilizing the base, the extent of Indiana bat foraging activities on the base and whether the maternity colony is utilizing roost trees on the base or at some other nearby location.	M. Mangan	USFWS	Comment noted. ILARNG intends to conduct a telemetry study next to better understand onsite roosting activities.

Comment #				Sparta Training Site INRMP Errata Sheet	Reviewer	Office	ILARNG Responses
	Section	Page	Line				
8	Appendix D			<p>Page 13, Section 1.12 (Natural and Cultural Resource Considerations): The Service concurs with using prescribed burning as a method to promote natural vegetation and to control non-native and invasive species; however, we recommend such burns be scheduled in order to minimize overall impacts to wildlife resources. The Service recommends incorporating language into the IWFMP from page 86 and 87 of the INRMP regarding practices that can be taken to avoid impacts to ground and forest nesting birds and roosting bats. Specifically lines 33 and 34 on page 86 and lines 8, 9, and 10 on page 87.</p>	M. Mangan	USFWS	<p>Per USFWS' recommendation, this information has been incorporated into Section 1.12 of Appendix D. The following text has been added: "The use of prescribed fire will be avoided between 1 April and 14 October to avoid impacts to ground nesting birds and roosting bats. Furthermore, when wind conditions would result in smoke entering the forested area, avoid burning in the vicinity of forested habitat to prevent impacts to forest and nesting birds and roosting bats. If an unplanned wildland fire occurs on STA during the above listed time period, consult USFWS to determine minimization and mitigation measures to implement to avoid take of Indiana bats. "</p>
9	Appendix D			<p>Page 15, Section 1.21 (Environmental Assessment): The IWFMP is described as being included as Appendix E of the 2012 Updated INRMP. This statement should be revised to Appendix D of the 2013 Updated INRMP.</p>	M. Mangan	USFWS	<p>This reference has been corrected. The reference to the specific Appendix letter has been removed. The sentence now reads "This IWFMP was developed in conjunction with the update of the 2005 STA INRMP and is included as an Appendix in the 2013 updated INRMP. "</p>
10	General			<p>We commend the Guard for its comprehensive approach to managing the natural resources at the STA. Our only recommendation is that, in addition to the management strategy in place for the federal- and state-listed Indiana Bat, you develop and include management strategies for the five state-listed species you have identified as occurring on the site: the Loggerhead Shrike, Northern Harrier, Ornate Box Turtle, Smooth Softshell, and Shortleaf Pine. The Department would like INRMP to specify the protective measures that will be implemented to avoid, minimize or mitigate adverse effects from activities at the STA. In particular, how will you avoid taking a state protected species, particularly during nesting season?</p>	K. Miller	IDNR	<p>ILARNG has added management strategies for state listed species at the beginning of Section 6.4.2 per your recommendations.</p>



Illinois Department of Natural Resources

One Natural Resources Way Springfield, Illinois 62702-1271
<http://dnr.state.il.us>

Pat Quinn, Governor
Marc Miller, Director

June 25, 2013

Mr. Jonathan L. Casebeer
Department of Military Affairs
1301 N. MacArthur Boulevard
Springfield, Illinois 62702-2399

Dear Mr. Casebeer:

Thank you for providing the Department with the opportunity to review the final draft Integrated Natural Resources Management Plan Update for the Illinois Army National Guard (ILARNG) Sparta Training Area (STA), located in Randolph County, Illinois. We appreciate the inclusion of general management strategies to avoid impacts to state-listed species. We have no additional comment at this time and concur with the management plan.

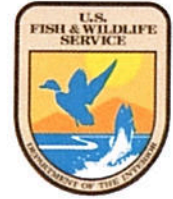
Sincerely,

Karen Miller
Office of Realty and Environmental Planning

CC: Scott Ballard, Office of Resource Conservation, IDNR



United States Department of the Interior



U.S. FISH AND WILDLIFE SERVICE
Marion Illinois Sub-Office (ES)
8588 Route 148
Marion, Illinois 62959
(618) 997-3344

July 10, 2013

Mr. Jonathan L. Casebeer
Department of Military Affairs
1301 N. MacArthur Boulevard
Springfield, Illinois 62702-2399

Dear Mr. Casebeer:

Thank you for your letter dated June 21, 2013, requesting concurrence of the final draft Integrated Natural Resource Management Plan (INRMP) for the Illinois Army National Guard (ILARNG) Sparta Training Area (STA), located in Randolph County, Illinois. These comments are provided under the authority of and in accordance with the provisions of the Fish and Wildlife Coordination Act (48 Stat. 401, as amended; 16 U.S.C. 661 *et seq.*); the Endangered Species Act of 1973 (87 Stat. 884, as amended; 16 U.S.C. 1531 *et seq.*); the Migratory Bird Treaty Act (40 Stat. 755, as amended; 16 U.S.C. 703 *et seq.*) and, the National Environmental Policy Act (83 Stat. 852, as amended P.L. 91-190, 42 U.S.C. 4321 *et seq.*).

In our letter dated May 7, 2013, we recommended a forest management plan be developed that would provide for improved conditions for migratory birds and forest dependent bat species (i.e., Indiana bat), including measures to be taken to avoid impacting these species during selective tree cutting. The need for a forest management plan is emphasized by the recent capture of Indiana bats on STA. We also concurred that additional bat surveys be conducted at STA and requested that telemetry data be collected in order to further ascertain the size of the Indiana bat maternity colony that may be utilizing the base, the extent of Indiana bat foraging activities on the base and whether the maternity colony is utilizing roost trees on the base or at some other nearby location.

In response to our recommendation and request, the ILARNG has indicated that a detailed forest management plan will be prepared for STA and that the plan will incorporate strategies for TSI and prescribed burns from the INRMP as well as provisions for enhancing forest habitat for the Indiana bat and migratory birds. In addition, the ILARNG intends to conduct mist netting and/or radio telemetry studies for bats at STA to monitor the Indiana bat population and roosting habitat. The Service continues to recommend that the ILARNG delay any forest management actions until a detailed forest management plan is developed and the Service has provided concurrence.

Thank you for the opportunity to provide comments on the INRMP. Based on the information in the INRMP and the commitment by the ILARNG to prepare a detailed forest management plan,

the Service concurs that habitat management at STA should be beneficial to a variety of fish and wildlife resources, including migratory birds and forest dependent bat species. If you have any questions, please contact me at (618) 997-3344, ext. 345.

Sincerely,

A handwritten signature in black ink, appearing to read "Matt Mangan", with a long horizontal flourish extending to the right.

Matthew T. Mangan
Biologist in Charge

cc: IDNR (Kemper, Miller)



DEPARTMENTS OF THE ARMY AND AIR FORCE
Illinois Army and Air National Guard
1301 North MacArthur Boulevard, Springfield, Illinois
62702-2317

October 27, 2010

Mr. John P. Froman
Peoria Tribe of Indians of Oklahoma
P. O. Box 1527
Miami, Oklahoma 74355-1527

Dear Chief Froman:

The Illinois Army National Guard (ILARNG) is revising its Integrated Natural Resources Management Plan (INRMP) for the Sparta Training Area (STA). The STA is a 2,642-acre training site located in Sparta, Randolph County, Illinois approximately 45 miles southeast of St. Louis, Missouri (see enclosure). A revision is required on the plan every five years. The last revision was completed in September 2005. Prior to implementing this action, we wish to consult with federally recognized Indian Nations that may have ancestral ties to the area. A letter from the Illinois Historic Preservation Agency, letter log #002021804, concurs that no further archaeological investigation is necessary as the majority of this property was strip mined and then reclaimed.

The current Illinois Integrated Cultural Resource Management Plan (ICRMP) indentified your tribe as one with aboriginal title to the Sparta, Illinois area. Consultation with Native American tribes or nations is required under the provisions of the NHPA regulations, Protection of Cultural and Historic Properties (36 CFR Part 800), revised rules effective January 11, 2001, EO 13175 (Consultation and Coordination with Indian Tribal Governments), and DoDI 4710.02 (DoD Interactions with Federally-Recognized Tribes).

The ILARNG would like to provide your tribal council with the opportunity to review and comment on the Sparta INRMP revision update. If you would like to review the Sparta INRMP, please request a copy through my Environmental Office. With your advice and assistance, we hope to maintain an ongoing cooperative relationship between your nation and the ILARNG.

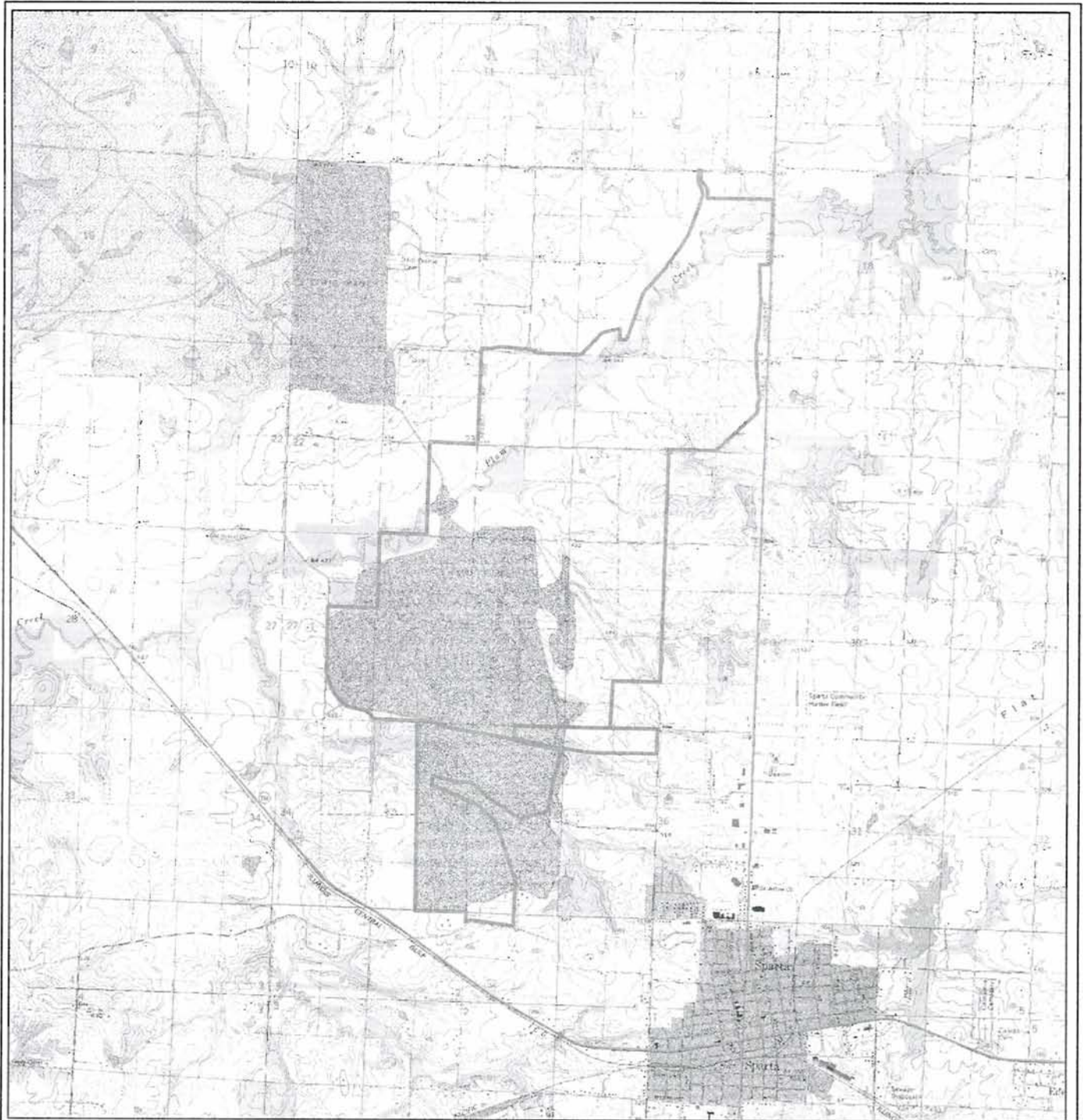
If you desire, my Environmental Program Manager, Mr. Jonathan Casebeer, can meet personally with you or your designated representative to outline areas of concern and provide you with further information. He can be reached at (217) 761-3794 or by email at jonathan.casebeer@us.army.mil.

Sincerely,

A handwritten signature in dark ink, appearing to read "W. Enyart", with a long horizontal flourish extending to the right.

Enclosure

WILLIAM L. ENYART
Major General, ILARNG
The Adjutant General



Legend

 Sparta Training Area

Illinois Army National Guard





amec

Notes: Spatial Data courtesy of ILARNG and Illinois Natural Resources Geospatial Data Clearinghouse; Projection: NAD 1983 UTM Zone 16N

**FIGURE 1
SITE LOCATION MAP**

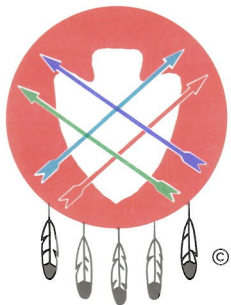
**Integrated Natural Resources
Management Plan
Sparta Training Area
Randolph County, Illinois**

0 1,000 2,000 Meters

0 2,500 5,000 7,500 Feet

Wisconsin Michigan
Iowa Illinois Ohio
Missouri Indiana
Arkansas Kentucky
Tennessee

"No warranty is made by the ILARNG/NGB as to the accuracy, reliability, or completeness of these data for individual use or aggregate use with other data. This map is a "living document", in that it is intended to change as new data become available and is incorporated into the Enterprise GIS database."



PEORIA TRIBE OF INDIANS OF OKLAHOMA

118 S. Eight Tribes Trail (918) 540-2535 FAX (918) 540-2538

P.O. Box 1527

MIAMI, OKLAHOMA 74355

CHIEF
John P. Froman

SECOND CHIEF
Jason Dollarhide

December 8, 2010

Departments of the Army and Air Force
Illinois Army and Air National Guard
1301 North MacArthur Blvd
Springfield, IL 62702-2317

RE: Support of training mission operations at Sparta Training Area

Thank you for notice of the referenced project. The Peoria Tribe of Indians of Oklahoma is currently unaware of any documentation directly linking Indian Religious Sites to the proposed construction. In the event any items falling under the Native American Graves Protection and Repatriation Act (NAGPRA) are discovered during construction, the Peoria Tribe request notification and further consultation.

The Peoria Tribe has no objection to the proposed construction. However, if any human skeletal remains and/or any objects falling under NAGPRA are uncovered during construction, the construction should stop immediately, and the appropriate persons, including state and tribal NAGPRA representatives contacted.

A handwritten signature in blue ink, appearing to read 'J.P.', is positioned above the printed name of the Chief.

John P. Froman
Chief

xc: Bud Ellis, Repatriation/NAGPRA Committee Chairman

TREASURER
John Sharp

APPENDIX E

SECRETARY
Hank Downum

FIRST COUNCILMAN
Carolyn Ritchey

SECOND COUNCILMAN
Jenny Rampey

THIRD COUNCILMAN
Alec Goff



NATIONAL GUARD BUREAU

111 SOUTH GEORGE MASON DRIVE
ARLINGTON VA 22204-1382

ARNG-ILE

24JUL13

MEMORANDUM FOR The Illinois Army National Guard (ILARNG), (ATTN: Mr. Jonathan Casebeer), Chief Environmental Branch, Department of Military Affairs, 1301 North MacArthur Blvd., Springfield, Illinois 62702

SUBJECT: ARNG Directorate Approval of the Integrated Natural Resource Management Plan (INRMP) Update for the Sparta Training Area, ILARNG

1. References:

a. The Sikes Act (16 U.S.C 670 et seq)

b. Handbook, Guidance on Preparing Environmental Documentation for Army National Guard Actions in Compliance with the National Environmental Policy Act (NEPA) of 1969, Oct 11.

c. Memorandum, ARNG-ILE, 9 Apr 12, Guidance for the Creation, Implementation, Review, and Revision and Update of Integrated Natural Resources Management Plans.

d. Army Regulation 200-1, Environmental Protection and Enhancement, Dec 07.

2. The Training and Infrastructure Branch has reviewed the final INRMP including the errata sheet and determined our comments have been sufficiently addressed.

3. For compliance with the Sikes Act, ensure that you conduct a review of the INRMP for operation and effect with the US Fish and Wildlife Service and the Illinois Department of Natural Resources at least once every five years. Enclosed is the signed INRMP.

4. The point of contact for this action is Mr. Jay Rubinoff, Natural Resources Program Manager, DSN 327-7973, 703-601-7973, or via email at jay.m.rubinoff.civ@mail.mil.

Encl

A handwritten signature in black ink, appearing to read "Michael C. Ahn".

MICHAEL C. AHN
COL, EN
Chief, Environmental
Programs Division

APPENDIX F

FLORA AND FAUNA SPECIES LISTS

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CONTENTS

Table 1 – Plant Species.....	Page 1
Table 2 – Bird Species	Page 6
Table 3 – Amphibian Species.....	Page 14
Table 4 – Reptile Species.....	Page 15
Table 5 – Mammal Species	Page 16
Table 6 – Fish Species	Page 18
Table 7 – Macroinvertebrate Taxa.....	Page 20
Birds Protected under the Migratory Bird Treaty Act.....	Page 22

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Table 1. Plant Species observed at the STA

Common Name	Scientific Name	Stratum
Box Elder	<i>Acer negundo</i>	S
Silver Maple	<i>Acer saccharinum</i>	S
Sugar Maple	<i>Acer saccharum</i>	T
Yarrow	<i>Achillea millefolium</i>	H
Agrimony	<i>Agrimonia sp.</i>	H
Redtop	<i>Agrostis gigantea</i>	H
Wild Onion	<i>Allium canadense</i>	H
Pigweed	<i>Amaranthus sp.</i>	H
Common Ragweed	<i>Ambrosia artemisiifolia</i>	H
Broomsedge	<i>Andropogon virginicus</i>	H
Indian Hemp	<i>Apocynum cannabinum</i>	H
Common Milkweed	<i>Asclepias syriaca</i>	H
Aster	<i>Aster sp.</i>	H
Oats	<i>Avena sativa</i>	H
River Birch	<i>Betula nigra</i>	S
Tickseed Sunflower	<i>Bidens sp.</i>	H
Smooth Brome	<i>Bromus inermis</i>	H
Downy Brome	<i>Bromus tectorum</i>	H
Corn Gromwell	<i>Buglossoides arvensis</i>	H
Spring Beauty	<i>Claytonia virginica</i>	H
Trumpet Creeper	<i>Campsis radicans</i>	H/V
Shepard's-purse	<i>Capsella bursa-pastoris</i>	H
Pennsylvania Bittercress	<i>Cardamine pennsylvanica</i>	H
Musk Thistle	<i>Carduus nutans</i>	H
Threadleaf Sedge	<i>Carex filifolia</i>	H
Sedge	<i>Carex sp.</i>	H
Fox Sedge	<i>Carex vulpinoidea</i>	H
Bitternut Hickory	<i>Carya cordiformis</i>	S
Shellbark Hickory	<i>Carya laciniosa</i>	S
Shagbark Hickory	<i>Carya ovata</i>	T
Sugarberry	<i>Celtis laevigata</i>	S
Hackberry	<i>Celtis occidentalis</i>	S

Table 1. Plant Species observed at the STA

Common Name	Scientific Name	Stratum
Water Hemlock	<i>Cicuta maculata</i>	H
Stout Woodreed	<i>Cinna arundinacea</i>	H
Blue-Eyed Mary	<i>Coffinsia verna</i>	H
Flowering Dogwood	<i>Comus florida</i>	S
Dogwood Shrub	<i>Comus sp.</i>	S
Hawthorn	<i>Crataegus sp.</i>	S
Honewort	<i>Cryptotaenia canadensis</i>	H
Yellow Nutsedge	<i>Cyperus esculentus</i>	H
Orchardgrass	<i>Dactylis glomerata</i>	H
Jimsonweed	<i>Datura stramonium</i>	H
Wild Carrot	<i>Daucus carota</i>	H
Dwarf Larkspur	<i>Delphinium tricome</i>	H
Panicgrass	<i>Dicanthelium sp.</i>	H
Persimmon	<i>Diospyros virginiana</i>	S
Autumn Olive	<i>Elaeagnus umbellata</i>	S
Canada Wild Rye	<i>Elymus canadensis</i>	H
Virginia Wild Rye	<i>Elymus virginicus</i>	H
Horseweed	<i>Erigeron canadensis</i>	H
Trout Lily	<i>Erythronium americanum</i>	H
Late-Flowering Thoroughwort	<i>Eupatorium serotinum</i>	H
Fescue	<i>Festuca arundinacea</i>	H
White Ash	<i>Fraxinus americana</i>	T
Green Ash	<i>Fraxinus pennsylvanica</i>	T/S
Cleavers	<i>Galium aparine</i>	H
Rough Bedstraw	<i>Galium asprellum</i>	H
Bedstraw	<i>Galium sp.</i>	H
Wild Geranium	<i>Geranium maculatum</i>	H
Honey Locust	<i>Gleditsia triacanthos</i>	H/S
Soybeans	<i>Glycine max</i>	H
Common Sunflower	<i>Helianthus annus</i>	H
Foxtail Barley	<i>Hordeum jubatum</i>	H
Barley	<i>Hordeum vulgare</i>	H

Table 1. Plant Species observed at the STA

Common Name	Scientific Name	Stratum
St. John's Wort	<i>Hypericum sp.</i>	H
Jewelweed	<i>Impatiens capensis</i>	H
Black Walnut	<i>Juglans nigra</i>	T
Rush	<i>Juncus sp.</i>	H
Slender Rush	<i>Juncus sp.</i>	H
Eastern Red Cedar	<i>Juniperus virginiana</i>	S
Henbit	<i>Lamium amplexicaule</i>	H
Lespedeza	<i>Lespedeza sp.</i>	H
Korean Lespedeza	<i>Lespedeza stipulacea</i>	H
Perennial Rye	<i>Lolium perenne</i>	H
Japanese Honeysuckle	<i>Lonicera japonica</i>	V
Bush Honeysuckle	<i>Lonicera sp.</i>	S
Trefoil	<i>Lotus corniculatus</i>	H
Moneywort	<i>Lysimachia nummularia</i>	H
Osage Orange	<i>Maclura pomifera</i>	T
Alfalfa	<i>Medicago sativa</i>	H
Sweet White Clover	<i>Melilotus alba</i>	H
Sweet Yellow Clover	<i>Melilotus officinalis</i>	H
Sweet Clover	<i>Melilotus sp.</i>	H
Virginia Bluebell	<i>Mertensia virginica</i>	H
Sweet Cicely	<i>Osmorhiza longistylis</i>	H
Common Evening Primrose	<i>Oenothera biennis</i>	H
Wood-Sorrel	<i>Oxalis sp.</i>	H
Witchgrass	<i>Panicum capillare</i>	H
Virginia Creeper	<i>Parthenosensis quinquefolia</i>	V/H
Foxglove Beardtongue	<i>Penstemon digitalis</i>	H
Timothy	<i>Phleum pratense</i>	H
Sweet William	<i>Phlox maculata</i>	H
Phlox	<i>Phlox sp.</i>	H
Phragmites	<i>Phragmites australis</i>	H
Short Leaf Pine	<i>Pinus echinata**</i>	T
Pokeweed	<i>Phytolacca americana</i>	H

Table 1. Plant Species observed at the STA

Common Name	Scientific Name	Stratum
Sycamore	<i>Platanus occidentalis</i>	S
Kentucky Bluegrass	<i>Poa pratensis</i>	H
May Apple	<i>Podophyllum peltatum</i>	H
Smartweed	<i>Polygonum pennsylvanicum</i>	H
Cottonwood	<i>Populus sp.</i>	T
White Oak	<i>Quercus albus</i>	S
Swamp White Oak	<i>Quercus bicolor</i>	S
Pin Oak	<i>Quercus palustris</i>	S
Buttercup	<i>Ranunculus sp.</i>	H
Poison Ivy	<i>Rhus radicans</i>	V/H
Sumac	<i>Rhus sp.</i>	S
Black Locust *	<i>Robinia pseudoacacia</i>	T
Multiflora Rose	<i>Rosa multiflora</i>	S
Blackberry	<i>Rubus allegheniensis</i>	H
Black Raspberry	<i>Rubus occidentalis</i>	S
Prickly Brambles	<i>Rubus sp.</i>	S/H
Black-eyed Susan	<i>Rudbeckia hirta</i>	H
Curled Dock	<i>Rumex crisp us</i>	H
Willow	<i>Salix sp.</i>	T
Black Snakeroot	<i>Sanicula marilandica</i>	H
Green Bulrush	<i>Scirpus atrovirens</i>	H
Woolgrass	<i>Scirpus cyperinus</i>	H
Butterweed	<i>Senecio aureus</i>	H
Sericea	<i>Sericea lespedeza</i>	H
Foxtail	<i>Setaria sp.</i>	H
Tumble mustard	<i>Sisymbrium altissimum</i>	H
Solomon's Seal	<i>Smilacina sp.</i>	H
Catbrier	<i>Smilax sp.</i>	V/H
Goldenrod	<i>Solidago sp.</i>	H
Chickweed	<i>Stellaria sp.</i>	H
Coralberry	<i>Symphoricarpos orbiculatus</i>	S
Wild Mustard	<i>Synapis arvensis</i>	H

Table 1. Plant Species observed at the STA

Common Name	Scientific Name	Stratum
Common Tansy	<i>Tanacetum vulgare</i>	H
Dandelion	<i>Taraxacum sp.</i>	H
Alsike Clover	<i>Trifolium hybridum</i>	H
Red Clover	<i>Trifolium pratense</i>	H
Smaller Hop Clover	<i>Trifolium procumbens</i>	H
White Clover	<i>Trifolium repens</i>	H
Ladino Clover	<i>Trifolium repens latum</i>	H
Red Trillium	<i>Trillium erectum</i>	H
Wheat	<i>Triticum aestivum</i>	H
Winter Wheat	<i>Triticum aestivum</i>	H
Narrow-leaved Cattail	<i>Typha angustifolia</i>	H
American Elm	<i>Ulmus americana</i>	S
Elm	<i>Ulmus sp.</i>	T/S
Stinging Nettle	<i>Urtica dioica</i>	H
Blue Vervain	<i>Verbena hastata</i>	H
Common Speedwell	<i>Veronica officinalis</i>	H
Yellow Violet	<i>Viola pensy/vanica</i>	H
Grapevine	<i>Vitis sp.</i>	V
Cockleburr	<i>Xanthium sp.</i>	H
** State threatened or endangered species Source: Femhi, 2003; Lambert & LaMontagne, 2010		

Table 2. Bird Species observed at the STA			
Scientific Name	Common Name	Observed	Abundance/ Status
Blackbirds, Grackles, Meadowlarks, and Orioles - Icteridae			
Icterus galbula	Baltimore Oriole	X	CS
Euphagus cyanocephalus	Brewer's Blackbird		RT
Molothrus ater	Brown-headed Cowbird	X	CP
Quiscalus quiscula	Common Grackle	X	CP
Sturnella magna	Eastern Meadowlark	X	CP
Icterus spurius	Orchard Oriole	X	RS
Agelaius phoeniceus	Red-winged Blackbird	X	CP
Euphagus carolinus	Rusty Blackbird		RT
Bluebirds and Thrushes - Turdidae			
Turdus migratorius	American Robin	X	CT
Sialia sialis	Eastern Bluebird		UP
Catharus minimus	Gray-cheeked Thrush		OT
Catharus guttatus	Hermit Thrush		RT
Catharus ustulatus	Swainson's Thrush		RT
Catharus fuscescens	Veery		RT
Hylocichla mustelina	Wood Thrush	X	UT
Chickadees and Titmice - Paridae			
Parus atricapillus	Black-capped Chickadee		UW
Parus carolinensis	Carolina Chickadee	X	CP
Parus bicolor	Tufted Titmouse	X	CP
Creepers - Certhiidae			
Certhia familiaris	Brown		RW
Cormorants – Phalacrocoracidae			
Phalacrocorax auritus	Double-crested	X	UT
Cuckoos - Cuckilidae			
Coccyzus erythrophthalmus	Black-billed		US
Coccyzus americanus	Yellow-billed	X	US

Table 2. Bird Species observed at the STA			
Scientific Name	Common Name	Observed	Abundance/ Status
Doves – Columbidae			
Zenaida macroura	Mourning	X	CP
Columba livia	Rock		UP
Flycatchers - Tyrannidae			
Empidonax virescens	Acadian		RS
Tyrannus tyrannus	Eastern Kingbird	X	CS
Sayornis phoebe	Eastern Phoebe	X	CS
Contopus virens	Eastern Wood-pewee	X	CS
Myiarchus crinitus	Great-crested Flycatcher	X	US
Empidonax minimus	Least		RT
Nuttallornis borealis	Olive-sided		RT
Empidonax traillii	Willow		RS
Gnatcatchers - Sylviidae			
Polioptila caerulea	Blue gray gnatcatcher	X	US
Goatsuckers - Caprimulgidae			
Caprimulgus carolinensis	Chuck-will's-widow		RS
Chordeiles minor	Common Nighthawk	X	US
Caprimulgus vociferus	Whip-poor-will		RS
Grebes - Podicipedidae			
Podiceps auritus	Pied-billed	X	OT
Grosbeaks, Buntings, Longspurs, Towhees, and Sparrows - Fringillidae			
Carduelis tristis	American Goldfinch	X	X
Spizella arborea	American Tree Sparrow		CW
Guiraca caerulea	Blue Grosbeak	X	RS
Spizella passerinca	Chipping Sparrow		CS
Junco hyemalis	Dark-eyed Junco		CW
Spiza Americana	Dickcissel	X	CS
Pipilo erythrophthalmus	Eastern Towhee	X	CP
Spizella pusilla	Field Sparrow	X	CP

Table 2. Bird Species observed at the STA			
Scientific Name	Common Name	Observed	Abundance/ Status
Passerella iliaca	Fox Sparrow		RW
Ammodramus savannarum	Grasshopper Sparrow	X	US
Ammodramus henslowii	Henslow's Sparrow*		RS
Carpodacus mexicanus	House Finch		CP
Passerina cyanea	Indigo Bunting	X	X
Calcarius lapponicus	Lapland Longspur		RW
Ammospiza leconteii	LeConte's Sparrow		RT
Melospiza lincolni	Lincoln's Sparrow		RT
Cardinalis cardinalis	Northern Cardinal	X	CP
Carduelis pinus	Pine Siskin		RT
Carpodacus purpureus	Purple Finch		RW
Pheucticus ludovicianus	Rose-breasted Grosbeak		UT
Passerculus sandwichensis	Savannah Sparrow	X	RT
Melospiza melodia	Song Sparrow	X	UP
Melospiza georgiana	Swamp Sparrow		RW
Poocetes gramineus	Vesper Sparrow	X	US
Zonotrichia leucophrys	White-crowned Sparrow		
Zonotrichia albicollis	White-throated Sparrow		CW
Hérons - Ardeidae			
Ardea herodias	Great Blue	X	CP
Butorides striatus	Green	X	CS
Hummingbirds – Trochilidae			
Archilochus colubris	Ruby-throated Hummingbird	X	US
Jays and Crows - Corvidae			
Corvus brachyrhynchos	American Crow	X	CP
Cyanocitta cristata	Blue Jay	X	CP
Kingfishers - Alcedinidae			
Megaceryle alcyon	Belted	X	US
Kinglets - Regulidae			

Table 2. Bird Species observed at the STA			
Scientific Name	Common Name	Observed	Abundance/ Status
Regulus satrapa	Golden-crowned		UW
Regulus calendula	Ruby-crowned		UT
Mockingbirds - Mimidae			
Toxostoma rufum	Brown Thrasher	X	CS
Dumetella carolinensis	Gray Catbird	X	CS
Mimus polyglottos	Northern Mockingbird	X	UP
Nuthatches - Sittidae			
Sitta canadensis	Red-breasted		UW
Sitta carolinensis	White-breasted		CP
Owls – Tytonidae and Strigidae			
Strix varia	Barred		RP
Bubo virginianus	Great-horned	X	UP
Aegolus acadicus	Northern Saw-whet		OT
Otus asioEastern	Screech		RP
Asio flammeus	Short-eared*		OT
Plovers - Charadiidae			
Charadius vociferous	Killdeer	X	CS
Quail, Turkeys, and Pheasant – Meleagridae and Phasianidae			
Colinus virginianus	Northern Bobwhite	X	UP
Phasianus colchicus	Ring-neck Pheasant		UP
Meleagris gallopavo	Wild Turkey	X	UP
Rails and Coots – Rallidae			
Fulica americana	American Coot	X	UT
Rallus longirostris	King Rail		OT
Porzana carolina	Sora		RT
Rallus limicola	Virginia Rail	X	OT
Raptors - Acciptridae			
Falco sparverius	American Kestrel	X	UP

Table 2. Bird Species observed at the STA			
Scientific Name	Common Name	Observed	Abundance/ Status
Haliaeetus leucocephalus	Bald Eagle #		OW
Buteo platypterus	Broad-winged Hawk		RW
Accipiter cooperii	Cooper's Hawk	X	UP
Circus cyaneus	Northern Harrier *	X	UW
Falco peregrinus	Peregrine Falcon		OT
Buteo lineatus	Red-shouldered Hawk*		RP
Buteo jamaicensis	Red-tailed Hawk	X	CP
Buteo lagopus	Rpugh-legged Hawk		OW
Accipiter striatus	Sharp-shinned Hawk		OP
Sandpipers - Scolopacidae			
Philohela minor	American Woodcock		US
Capella gallinago	Common Snipe		RS
Tringa solitaria	Solitary Sandpiper		OT
Shrikes - Laniidae			
Laius ludovicianus	Loggerhead shrike*	X	RS
Starlings - Sturnidae			
Sturnus vulgaris	European	X	CP
Swallows - Hirundinidae			
Hirundo rustica	Barn	X	CS
Progne subis	Purple Martin	X	RS
Stelgidopteryx ruficollis	Rough-winged	X	CS
Iridoprocne bicolor	Tree	X	RS
Swifts – Apodidae			
Chaetura pelagiica	Chimney Swift	X	US
Tanagers - Thraupidae			
Piranga olivacea	Scarlet		RS
Piranga rubra	Summer		RS
Vireos- Vireonidae			
Vireo philadelphicus	Philadelphia		RT

Table 2. Bird Species observed at the STA			
Scientific Name	Common Name	Observed	Abundance/ Status
Vireo olivaceus	Red-eyed	X	US
Vireo solitarius	Solitary		RT
Vireo gilvus	Warbling	X	UT
Vireo griseus	White-eyed		RS
Vireo flavifrons	Yellow-throated		RS
Vultures - Cathartidae			
Cathartes aura	Turkey	X	CS
Waterfowl - Anatidae			
Anas Americana	American Wigeon		OT
Anas rubripes	Black Duck		UW
Anas discors	Blue-winged Teal	X	RT
Bucephala albeola	Bufflehead		RT
Branta canadensis	Canada Goose	X	CP
Aythya valisineria	Canvasback		OT
Anas cyanoptera	Cinnamon Teal		RT
Bucepheala clangula	Common Goldeneye		OT
Mergus merganser	Common Merganser		OT
Anas acuta	Common Pintail	X	OT
Anas strepera	Gadwall	X	OT
Aythya marila	Greater Scaup		RT
Anas crecca	Green-winged Teal	X	RT
Lophodytes cucullatus	Hooded Merganser		RT
Aythya affinis	Lesser Scaup		RT
Anas platyrhynchos	Mallard	X	CP
Anas clypeata	Northern Shoveler		UT
Mergus serrator	Red-breasted Merganser		OT
Aythya Americana	Redhead		OT
Oxyura jamaicensis	Ruddy Duck		RT
Chen caerulescens	Snow Goose		OW

Table 2. Bird Species observed at the STA			
Scientific Name	Common Name	Observed	Abundance/ Status
Aix sponsa	Wood Duck		OS
Waxwings - Bombycillidae			
Bombycilla cedrorum	Cedar	X	UW
Woodpeckers - Picadae			
Colaptes auratus	Common Flicker	X	CP
Poides pubescens	Downy	X	CP
Picoides villosus	Hairy		
Dryocopus pileatus	Pileated		RP
Melanerpes carolinus	Red-bellied	X	CP
Melanerpes etythrocephalus	Red-headed		UP
Sphyrapicus carius	Yellow-bellied Sapsucker		RP
Wood Warblers - Parulidae			
Setophaga ruticilla	American Redstart		UT
Dendroica castanea	Bay-breasted		RT
Mniotilta varia	Black-and-white		RT
Dendroica fusca	Blackburnian		RT
Dendroica striata	Blackpoll		RT
Dendroica caerulescens	Black-throated Blue		RT
Dendroica virens	Black-throated Green		UT
Vermivora pinus	Blue-winged		RS
Wilsonia Canadensis	Canada		RT
Dendroica cerulea	Cerulean		OT
Dendroica pensylvanica	Chestnut-sided		RT
Geothlypis trichas	Common Yellowthroat	X	CS
Oporornis agilis	Connecticut		RT
Vermivora chrysoptera	Golden-winged		RT
Wilsonia citrina	Hooded		RT
Oporornis formosus	Kentucky		RT
Seiurus aurocapillus	Louisiana Waterthrush		UT
Dendroica magnolia	Magnolia		RT

Table 2. Bird Species observed at the STA

Scientific Name	Common Name	Observed	Abundance/ Status
<i>Oporornis philadelphia</i>	Mourning		RT
<i>Vermivora ruficapilla</i>	Nashville		RT
<i>Parula americana</i>	Northern Parula		UT
<i>Vermivora celata</i>	Orange-crowned		RT
<i>Seiurus aurocapillus</i>	Ovenbird		RT
<i>Dendroica palmarum</i>	Palm		RT
<i>Dendroica discolor</i>	Prairie		RT
<i>Protonotaria citrea</i>	Prothonotary		RS
<i>Vermivora peregrina</i>	Tennessee		OT
<i>Wilsonia pusilla</i>	Wilson's		OT
<i>Limnothlypis swainsonii</i>	Worm-eating		OT
<i>Dendroica petechia</i>	Yellow	X	UT
<i>Icteria virens</i>	Yellow-breasted Chat		US
<i>Dendroica coronata</i>	Yellow-rumped		CW
<i>Dendroica dominica</i>	Yellow-throated		US
Wrens - Troglodytidae			
<i>Thryomanes bewickii</i>	Bewick's		OP
<i>Thryothorus ludovicianus</i>	Carolina	X	UP
<i>Troglodytes aedon</i>	House	X	CT
<i>Cistothorus platensis</i>	Sedge		OP
<i>Troglodytes troglodytes</i>	Winter		RP

Data collected during January, May, and June 2003 (Pitts & Casebeer, 2003). All species listed have the potential to be observed at STA, however only those denoted with "X" were noted during surveys.

*Denotes a species listed as threatened or endangered in Illinois

#Denotes a species listed as threatened or endangered in US

KEY: C = Common, may be found in appropriate habitat and season;
 U = Uncommon;
 R = Rare;
 O = Occasional (rarely found and not likely present annually);
 P = permanent resident, or has this potential;
 S = Summer resident; if present, most likely in the summer;
 W = Winter resident; if present, most likely in the winter; and
 T = Transient; if present, most likely during migration or intermittently.

Table 3. Amphibian Species observed at the STA

Common Name	Scientific Name	Stratum
Frogs and toads		
Eastern narrowmouth toad	<i>Gastrophryne carolinensis</i>	
American toad	<i>Bufo americanus</i>	
Bullfrog	<i>Rana catesbeiana</i>	X
Cricket frog	<i>Acris crepitans blanchardi</i>	X
Fowlers toad	<i>Bufo fowleri</i>	X
Green frog	<i>Rana clamitans</i>	
Green treefrog	<i>Hyla cinerea</i>	
Grey treefrog-complex	<i>Hyla versicolor-chrysohelix</i>	X
Pickerel frog	<i>Rana palustris</i>	X
Plains leopard frog	<i>Rana blairi</i>	
Southern leopard frog	<i>Rana utricularia</i>	X
Spring peeper	<i>Pseudacris crucifer crucifer</i>	X
Western chorus frog	<i>Pseudacris triseriata triseriata</i>	X
Salamanders		
Longtailed salamander	<i>Eurycea longicauda</i>	
Smallmouth salamander	<i>Ambystoma texanum</i>	
Tiger salamander	<i>Ambystoma tigrinum</i>	
<p>Data collected during January, May, and June 2003 (Pitts & Casebeer, 2003). All species listed have the potential to be observed at STA, however only those denoted with "X" were noted during surveys.</p>		

Table 4. Reptile Species observed at the STA		
Common Name	Scientific Name	Stratum
Snakes		
Worm snake	<i>Carphophis amoenus helanae</i>	
Racer	<i>Coluber constrictor constrictor</i> -	X
Corn snake	<i>Elaphe guttata</i>	
Rat snake	<i>Elaphe obsoleta</i>	X
Eastern hognose snake	<i>Heterodon platyhinos</i>	
Western hognose snake	<i>Heterodon nasicus</i>	
Prairie kingsnake	<i>Lampropeltis calligaster calligaster</i>	
Black kingsnake	<i>Lampropeltis getula nigra</i>	
Speckled kingsnake	<i>Lampropeltis getula holbrookii</i>	
Milk snake	<i>Lampropeltis triangulum sypila</i>	
Yellowbelly water snake	<i>Nerodia erythogaster flavigaster</i>	
Diamondback water snake	<i>Nerodia rhombifer</i>	
Northern water snake	<i>Nerodia sipedon sipedon</i>	X
Midland water snake	<i>Nerodia sipedon pleuralis</i>	
Rough green snake	<i>Opheodrys aestivus</i>	
Graham's crawfish snake	<i>Regina grahamii</i>	
Midland brown snake	<i>Storeria dekayi wrightorum</i>	
Western ribbon snake	<i>Thamnophis proximus proximus</i>	
Common garter snake	<i>Thamnophis sirtalis sirtalis</i>	
Smooth earth snake	<i>Virginia valeriae</i>	
Turtles		
Snapping turtle	<i>Chelydra serpentina</i>	X
Painted turtle	<i>Chrysemys picta</i>	X
Eastern box turtle	<i>Terrapene carolina</i>	
Ornate box turtle	<i>Terrapene ornate</i>**	X
Slider	<i>Trachemys scripta</i>	
Common musk turtle	<i>Sternotherus odoratus</i>	
Smooth softshell	<i>Apalone mutica</i>**	X
Ouachita map turtle	<i>Graptemys ouachitensis</i> - hybrids	
False map turtle	<i>Graptemys pseudogeographica</i>	X
<p>Data collected during January, May, and June 2003 (Pitts & Casebeer, 2003). All species listed have the potential to be observed at STA, however only those denoted with "X" were noted during surveys. **State threatened or endangered species.</p>		

Table 5. Mammal Species observed at the STA				
Species	Common Name	Probable	Sign	Observed
Carnivores				
Canis latrans	Coyote	X	X	X
Coyote/dog hybrid	coydog	X	X	X
Felis rufus	bobcat		X	
Mephitis mephitis	striped skunk	X	X	
Mustela frenata	long-tailed weasel			
Mustela vison	mink	X		X
Orocyon cinereoargenteus	gray fox	X		
Procyon lotor	raccoon	X	X	X
Taxidea taxus	badger		?	
Vulpes vulpes	red fox	X	X	X
Insectivores				
Blarina brevicauda	northern short-tailed shrew		X	
Blarina carolinensis	southern short-tailed shrew			
Cryptotis parva	least shrew	X		X
Scalopus aquaticus	eastern mole	X		
Sorex cinereus	masked shrew			
Sorex longirostris	southeastern shrew	X		
Lagomorphs				
Sylvilagus aquaticus	swamp rabbit	X		
Sylvilagus floridanus	eastern cottontail rabbit	X	X	X
Marsupials				
Didelphis virginiana	opossum	X	X	X
Rodents				
Castor canadensis	beaver	X	X	X
Geomys bursarius	plains pocket gopher			
Glaucomys volans	flying squirrel	X		
Marmota monax	woodchuck	X		X
Microtus ochrogaster	prairie vole	X		

Table 5. Mammal Species observed at the STA				
Species	Common Name	Probable	Sign	Observed
Microtus pinetorum	pine vole	X		
Mus musculus	house mouse			
Ochrotomys nuttalli	golden mouse			
Ondatra zibethicus	muskrat	X	X	X
Oryzomys palustris	marsh rice rat			
Peromyscus leucopus	white-footed mouse	X	X	X
Peromyscus maniculatus	deer mouse	X	X	X
Rattus norvegicus	Norway rat			
Sciurus carolinensis	gray squirrel			
Sciurus niger	fox squirrel	X	X	X
Synaptomys cooperi	southern bog lemming			
Tamias striatus	eastern chipmunk	X		
Zapus hudsonius	meadow jumping mouse	X		
Ungulates				
Odocoileus virginianus	White-tailed deer	X	X	X
Probable: Known to occur within Randolph County and suitable habitat is available on site; Sign: Animal was not observed, but an adequate sign of it was noted (e.g., scat, tracks); and Observed: Animal was noted within STA property.				

Table 6. Fish Species observed at the STA

Scientific Name	Common Name	Observed	Abundance/ Status
Bigmouth buffalo	<i>Ictiobus cyprinellus</i>		X
Black bullhead	<i>Ameiurus melas</i>	X	
Black Crappie	<i>Pomoxis nigromaculatus</i>		X
Blackstripe topminnow	<i>Fundulus notatus</i>	X	X
Brown bullhead	<i>Ameiurus nebulosus</i>		X
Bluegill	<i>Lepomis machrochirus</i>	X	X
Bluntnose darter	<i>Etheostoma chlorosomum</i>	X	
Bluntnose minnow	<i>Pimephales notatus</i>	X	X
Bowfin	<i>Amia calva</i>		X
Common Carp	<i>Cyprinus carpio</i>	X	X
Channel catfish	<i>Ictalurus punctatus</i>	X	X
Creek Chub	<i>Semotilus atromaculatus</i>	X	
Creek chubsucker	<i>Erimyzon oblongus</i>	X	
Freshwater drum	<i>Aplodinotus grunniens</i>		X
Gizzard shad	<i>Dorosoma cepedianum</i>	X	X
Golden shiner	<i>Notemigonus crysoleucas</i>	X	X
Grass carp	<i>Ctenopharyngodon idella</i>		X
Green sunfish	<i>Lepomis cyanellus</i>	X	X
Hybrid sunfish	--		X
Johnny darter	<i>Etheostoma nigrum</i>	X	
Largemouth bass	<i>Micropterus salmoides</i>	X	X
Logperch	<i>Percina caprodes</i>	X	
Longear sunfish	<i>Lepomis megalotis</i>	X	X
Mosquitofish	<i>Gambusia affinis</i>	X	
Mud darter	<i>Etheostoma asprigene</i>	X	
Orangespotted sunfish	<i>Lepomis humilis</i>	X	X
Pirate perch	<i>Aphredoderus sayanus</i>	X	
Red shiner	<i>Cyprinella lutrensis</i>	X	X
Redear sunfish	<i>Lepomis machrochirus</i>	X	X
Redfin shiner	<i>Lythrurus umbratilis</i>	X	
River carpsucker	<i>Carpiodes carpio</i>		X
Shortnose gar	<i>Lepisosteus platostomus</i>		X
Silver carp	<i>Hypophthalmichthys molitrix</i>		X
Slough darter	<i>Etheostoma gracile</i>	X	
Smallmouth buffalo	<i>Ictiobus bubalus</i>		X

Table 6. Fish Species observed at the STA

Scientific Name	Common Name	Observed	Abundance/ Status
Spotfin shiner	<i>Cyprinella spiloptera</i>	X	
Spotted gar	<i>Lepisosteus oculatus</i>		X
Spotted sucker	<i>Minytrema melanops</i>	X	X
Steelcolor shiner	<i>Cyprinella whipplei</i>	X	
Tadpole madtom	<i>Noturus gyrinus</i>	X	
Warmouth	<i>Lepomis gulosus</i>		X
White crappie	<i>Pomoxis annularis</i>	X	X
White sucker	<i>Catostomus commersoni</i>	X	
Yellow bass	<i>Morone mississippiensis</i>		X
Yellow bullhead	<i>Ameiurus catus</i>	X	X
Source: Garvey et al., 2005; Phelps & Garvey, 2009			

Table 7. Macroinvertebrate taxa observed at the STA					
Group	Family	Genus	Location at the STA		
			Lakes	Plum Creek	Dog Creek
Amphipoda	Hyallelidae	<i>Hyallela</i>		X	
Annelida	Erpobdellidae	<i>Erpobdella</i>	X	X	X
	Glossiphoniidae	<i>Placobdella</i>	X		
	Oligochaeta		X		
Bivalvia	Corbiculidae	<i>Corbicula</i>		X	
	Sphaeriidae	<i>Sphaerium</i>	X	X	X
Coleoptera	Dytiscidae	<i>Agabus</i>			X
		<i>Coptotomus</i>	X		
		<i>Hydroporus</i>	X		X
	Elmidae	<i>Stenelmis</i>		X	
		<i>Dubiraphia</i>		X	
	Gyrinidae	<i>Dineutus</i>	X		
	Haliplidae	<i>Peltodytes</i>	X	X	X
		<i>Haliphus</i>	X		
	Hydrophilidae	<i>Berosus</i>	X		
		<i>Paracymus</i>	X		
	<i>Tropisternus</i>	X			
Decapoda	Cambaridae	<i>Orconectes</i>	X	X	
Diptera	Ceratopogonidae	<i>Bezzia</i>	X		
		<i>Palpomyia</i>	X		
	Ceratopogonidae	<i>Culicoides</i>		X	X
	Chironomidae		X	X	X
	Sciomyzidae	<i>Nemotelus</i>	X		
		<i>Odontomyia</i>	X		
		<i>Sepedon</i>	X		
	Simuliidae	<i>Simulium</i>		X	X
	Stratiomyidae	<i>Stratiomys</i>	X		
	Tabanidae	<i>Chrysops</i>		X	X
Ephemeroptera	Baetidae	<i>Callibaetis</i>	X		
	Caenidae	<i>Caenis</i>	X	X	

Table 7. Macroinvertebrate taxa observed at the STA

Group	Family	Genus	Location at the STA		
			Lakes	Plum Creek	Dog Creek
Ephemeroptera	Ephemeridae	<i>Hexagenia</i>	X	X	
	Heptageniidae	<i>Stenacron</i>		X	
		<i>Stenonema</i>	X		
Gastropoda	Hydrobiidae			X	
	Lymnaeidae	<i>Fossaria</i>	X	X	
	Physidae	<i>Physa</i>	X	X	X
	Planorbidae	<i>Helisoma</i>	X	X	
		<i>Menetus</i>		X	
Hemiptera	Belostomatidae	<i>Belostoma</i>	X		
	Corixidae	<i>Palmacorixa</i>		X	
		<i>Trichocorixa</i>	X		
	Mesoveliidae	<i>Mesovelia</i>	X		
	Nepidae	<i>Ranatra</i>	X		
	Pleidae	<i>Paraplea</i>	X		
	Veliidae	<i>Microvelia</i>	X		
Insecta	Collembola		X		
Isopoda (Crustacea)	Asellidae	<i>Caecidotea</i>	X	X	X
	Hyaellidae		X		
Megaloptera	Sialidae	<i>Sialis</i>		X	
Odonata	Aeshnidae	<i>Nasiaeshna</i>	X	X	
	Coenagrionidae	<i>Enallagma</i>	X		
	Corduliidae	<i>Somatochlora</i>			X
	Gomphidae	<i>Dromogomphus</i>			
	Libellulidae	<i>Libellula</i>	X		
Platyhelminthes	Turbellaria		X		
Trichoptera	Hydroptilidae	<i>Oxyethira</i>	X		
	Leptoceridae	<i>Nectopsyche</i>	X		
	Limnephidae	<i>Pycnopsyche</i>		X	
	Phryganeidae	<i>Ptilostomis</i>		X	
	Rhyacophilidae	<i>Rhyacophila</i>		X	

Source: Garvey et al., 2005

BIRDS PROTECTED BY THE MIGRATORY BIRD TREATY ACT
List of Migratory Birds

Taxonomic List (from United States Fish and Wildlife Service)

Family GAVIIDAE (Loons)

Gavia stellata, Red-throated Loon
 arctica, Arctic Loon
 pacifica (=arctica), Pacific (=Arctic) Loon
 immer, Common Loon
 adamsii, Yellow-billed Loon

Family PODICIPEDIDAE (Grebes)

Tachybaptus dominicus, Least Grebe
Podilymbus podiceps, Pied-billed Grebe
Podiceps auritus, Horned Grebe
 griseogena, Red-necked Grebe
 nigricollis, Eared Grebe
Aechmophorus occidentalis, Western Grebe
 clarkii (=occidentalis), Clark's (=Western) Grebe

Family DIOMEDEIDAE (Albatrosses)

Diomedea albatrus, Short-tailed Albatross
 nigripes, Black-footed Albatross
 immutabilis, Laysan Albatross
 chlororhynchos, Yellow-nosed Albatross

Family PROCELLARIIDAE (Shearwaters and Petrels)

Fulmarus glacialis, Northern Fulmar
Pterodroma hasitata, Black-capped Petrel
 phaeopygia, Dark-rumped Petrel
 externa, Juan Fernandez (=White-necked) Petrel
 cervicalis (=externa), White-necked Petrel
 inexpectata, Mottled Petrel
 ultima, Murphy's Petrel
 neglecta, Kermadec Petrel
 arminjoniana, Herald Petrel
 cookii, Cook's Petrel
 hypoleuca, Bonin Petrel
Bulweria bulwerii, Bulwer's Petrel
 diomedea, Cory's Shearwater
Puffinus creatopus, Pink-footed Shearwater
 carneipes, Flesh-footed Shearwater
 gravis, Greater Shearwater
 pacificus, Wedge-tailed Shearwater
 bulleri, Buller's Shearwater
 griseus, Sooty Shearwater
 tenuirostris, Short-tailed Shearwater
 nativitatis, Christmas Shearwater
 puffinus, Manx Shearwater
 opisthomelas, Black-vented Shearwater
 auricularis, Townsend's Shearwater
 assimilis, Little Shearwater
 lherminieri, Audubon's Shearwater

Family HYDROBATIDAE (Storm-Petrels)

Oceanites oceanicus, Wilson's Storm-Petrel
Pelagodroma marina, White-faced Storm-Petrel
Oceanodroma furcata, Fork-tailed Storm-Petrel
leucorhoa, Leach's Storm-Petrel
homochroa, Ashy Storm-Petrel
castro, Band-rumped Storm-Petrel
tethys, Wedge-rumped Storm-Petrel
melania, Black Storm-Petrel
tristrami, Tristram's (=Sooty) Storm-Petrel
microsoma, Least Storm-Petrel

Family PHAETHONTIDAE (Tropicbirds)

Phaethon lepturus, White-tailed Tropicbird
aethereus, Red-billed Tropicbird
rubricauda, Red-tailed Tropicbird

Family SULIDAE (Boobies and Gannets)

Sula dactylatra, Masked Booby
neboxii, Blue-footed Booby
leucogaster, Brown Booby
sula, Red-footed Booby
Morus (=Sula) bassanus, Northern Gannet (=Gannet)

Family PELECANIDAE (Pelicans)

Pelecanus erythrorhynchos, American White Pelican
occidentalis, Brown Pelican

Family PHALACROCORACIDAE (Cormorants)

Phalacrocorax carbo, Great Cormorant
auritus, Double-crested Cormorant
brasilianus (=olivaceus), Neotropic (=Olivaceous) Cormorant
penicillatus, Brandt's Cormorant
pelagicus, Pelagic Cormorant
urile, Red-faced Cormorant

Family ANHINGIDAE (Anhingas)

Anhinga anhinga, Anhinga

Family FREGATIDAE (Frigatebirds)

Fregata minor, Great Frigatebird
magnificens, Magnificent Frigatebird
ariel, Lesser Frigatebird

Family ARDEIDAE (Bitterns and Herons)

Botaurus lentiginosus, American Bittern
Ixobrychus exilis, Least Bittern
sinensis, Yellow (=Chinese) Bittern
eurhythmus, Schrenk's Bittern
Ardea herodias, Great Blue Heron
alba (=albus), Great Egret
Mesophoyx (=Egretta) intermedia, Intermediate (=Plumed) Egret
Egretta eulophotes, Chinese Egret
sacra, Pacific Reef Heron
thula, Snowy Egret

caerulea, Little Blue Heron
tricolor, Tricolored Heron
rufescens, Reddish Egret
Bubulcus ibis, Cattle Egret
Butorides virescens (=striatus), Green (=Green-backed) Heron
Nycticorax nycticorax, Black-crowned Night-Heron
melanolophus, Malay Night-Heron
goisagi, Japanese Night-Heron
Nyctanassa (=Nycticorax) violacea (=violaceus), Yellow-crowned Night-Heron

Family THRESKIORNITHIDAE (Ibises and Spoonbills)

Eudocimus albus, White Ibis
ruber, Scarlet Ibis
Plegadis falcinellus, Glossy Ibis
chihi, White-faced Ibis
Ajaia ajaja, Roseate Spoonbill

Family CICONIIDAE (Storks)

Jabiru mycteria, Jabiru
Mycteria americana, Wood Stork

Family PHOENICOPTERIDAE (Flamingos)

Phoenicopterus ruber, Greater Flamingo

Family ANATIDAE (Swans, Geese, and Ducks)

Dendrocygna bicolor, Fulvous Whistling-Duck
autumnalis, Black-bellied Whistling-Duck
arborea, West Indian Whistling-Duck
Cygnus columbianus, Tundra Swan
cygnus, Whooper Swan
buccinator, Trumpeter Swan
Anser fabalis, Bean Goose
albifrons, Greater White-fronted Goose
Chen caerulescens, Snow Goose
rossii, Ross' Goose
canagica, Emperor Goose
Branta bernicla, Brant
leucopsis, Barnacle Goose
canadensis, Canada Goose
(=Nesochen) sandvicensis, Hawaiian Goose
Aix sponsa, Wood Duck
Anas crecca, Green-winged Teal
formosa, Baikal Teal
falcata, Falcated Teal
rubripes, American Black Duck
fulvigula, Mottled Duck
platyrhynchos, Mallard
wyvilliana, Hawaiian Duck
laysanensis, Laysan Duck
bahamensis, White-cheeked Pintail
acuta, Northern Pintail
querquedula, Garganey
discors, Blue-winged Teal
cyanoptera, Cinnamon Teal
clypeata, Northern Shoveler
strepera, Gadwall

penelope, Eurasian Wigeon
 americana, American Wigeon
 Aythya ferina, Common Pochard
 valisneria, Canvasback
 americana, Redhead
 baeri, Baer's Pochard
 collaris, Ring-necked Duck
 fuligula, Tufted Duck
 marila, Greater Scaup
 affinis, Lesser Scaup
 Somateria mollissima, Common Eider
 spectabilis, King Eider
 fischeri, Spectacled Eider
 Polysticta stelleri, Steller's Eider
 Histrionicus histrionicus, Harlequin Duck
 Clangula hyemalis, Oldsquaw
 Melanitta nigra, Black Scoter
 perspicillata, Surf Scoter
 fusca, White-winged Scoter
 Bucephala clangula, Common Goldeneye
 islandica, Barrow's Goldeneye
 albeola, Bufflehead
 Mergellus albellus, Smew
 Lophodytes cucullatus, Hooded Merganser
 Mergus merganser, Common Merganser
 serrator, Red-breasted Merganser
 Oxyura jamaicensis, Ruddy Duck
 dominica, Masked Duck

Family CATHARTIDAE (American Vultures)

Coragyps atratus, Black Vulture
 Cathartes aura, Turkey Vulture
 Gymnogyps californianus, California Condor

Family ACCIPITRIDAE (Kites, Eagles, Hawks, and Allies)

Pandion haliaetus, Osprey
 Chondrohierax uncinatus, Hook-billed Kite
 Elanoides forficatus, Swallow-tailed (=American Swallow-tailed) Kite
 Elanus leucurus (=caeruleus), White-tailed (=Black-shouldered) Kite
 Rostrhamus sociabilis, Snail Kite
 Ictinia mississippiensis, Mississippi Kite
 Milvus migrans, Black Kite
 Haliaeetus leucocephalus, Bald Eagle
 albicilla, White-tailed Eagle
 pelagicus, Steller's Sea-Eagle
 Circus cyaneus, Northern Harrier
 Accipiter gularis, Asiatic Sparrow Hawk
 striatus, Sharp-shinned Hawk
 cooperii, Cooper's Hawk
 gentilis, Northern Goshawk
 Buteogallus anthracinus, Common Black-Hawk
 Parabuteo unicinctus, Harris' Hawk
 Buteo nitidus, Gray Hawk
 lineatus, Red-shouldered Hawk
 platypterus, Broad-winged Hawk
 brachyurus, Short-tailed Hawk

swainsoni, Swainson's Hawk
albicaudatus, White-tailed Hawk
albonotatus, Zone-tailed Hawk
solitarius, Hawaiian Hawk
jamaicensis, Red-tailed Hawk
regalis, Ferruginous Hawk
lagopus, Rough-legged Hawk
Aquila chrysaetos, Golden Eagle

Family FALCONIDAE (Caracaras and Falcons)

Caracara (=Polyborus) plancus, Crested Caracara
Falco tinnunculus, Eurasian Kestrel
sparverius, American Kestrel
columbarius, Merlin
femorialis, Aplomado Falcon
peregrinus, Peregrine Falcon
rusticolus, Gyrfalcon
mexicanus, Prairie Falcon

Family RALLIDAE (Rails, Gallinules, and Coots)

Coturnicops noveboracensis, Yellow Rail
Laterallus jamaicensis, Black Rail
Crex crex, Corn Crake
Rallus longirostris, Clapper Rail
elegans, King Rail
limicola, Virginia Rail
Porzana carolina, Sora
flaviventer, Yellow-breasted Crake
Porphyryula martinica, Purple Gallinule
Gallinula chloropus, Common Moorhen
Fulica atra, Eurasian Coot
alai (=americana), Hawaiian (=American) Coot
americana, American Coot
caribaea, Caribbean Coot

Family ARAMIDAE (Limpkins)

Aramus guarauna, Limpkin

Family GRUIDAE (Cranes)

Grus canadensis, Sandhill Crane
grus, Common Crane
americana, Whooping Crane

Family CHARADRIIDAE (Plovers and Lapwings)

Vanellus vanellus, Northern Lapwing
Pluvialis squatarola, Black-bellied Plover
dominicus (=dominica), American (=Lesser) Golden-Plover
fulva (=dominica), Pacific (=Lesser) Golden-Plover
Charadrius mongolus, Mongolian Plover
leschensultii, Great Sand Plover
alexandrinus, Snowy Plover
wilsonia, Wilson's Plover
hiaticula, Common Ringed Plover
semipalmatus, Semipalmated Plover
melodus, Piping Plover
dubius, Little Ringed Plover
vociferus, Killdeer

montanus, Mountain Plover
morinellus, Eurasian Dotterel

Family HAEMATOPODIDAE (Oystercatchers)

Haematopus palliatus, American Oystercatcher
bachmani, Black Oystercatcher

Family RECURVIROSTRIDAE (Stilts and Avocets)

Himantopus mexicanus, Black-necked Stilt
Recurvirostra americana, American Avocet

Family JACANIDAE (Jacanas)

Jacana spinosa, Northern Jacana

Family SCOLOPACIDAE (Sandpipers, Phalaropes, and Allies)

Tringa nebularia, Common Greenshank
melanoleuca, Greater Yellowlegs
flavipes, Lesser Yellowlegs
stagnatilis, Marsh Sandpiper
erythropus, Spotted Redshank
glareola, Wood Sandpiper
solitaria, Solitary Sandpiper
Catoptrophorus semipalmatus, Willet
Heteroscelus incanus, Wandering Tattler
brevipes, Gray-tailed Tattler
Actitis hypoleucos, Common Sandpiper
macularia, Spotted Sandpiper
Xenus cinereus, Terek Sandpiper
Bartramia longicauda, Upland Sandpiper
Numenius minutus, Little (=Least) Curlew
borealis, Eskimo Curlew
phaeopus, Whimbrel
tahitiensis, Bristle-thighed Curlew
madagascariensis, Far Eastern Curlew
americanus, Long-billed Curlew
Limosa limosa, Black-tailed Godwit
haemastica, Hudsonian Godwit
lapponica, Bar-tailed Godwit
fedoa, Marbled Godwit
Arenaria interpres, Ruddy Turnstone
melanocephala, Black Turnstone
Aphriza virgata, Surfbird
Calidris tenuirostris, Great Knot
canutus, Red Knot
alba, Sanderling
pusilla, Semipalmated Sandpiper
mauri, Western Sandpiper
ruficollis, Red-necked (=Rufous-necked) Stint
minuta, Little Stint
temminckii, Temminck's Stint
subminuta, Long-toed Stint
minutilla, Least Sandpiper
fuscicollis, White-rumped Sandpiper
bairdii, Baird's Sandpiper
melanotos, Pectoral Sandpiper
acuminata, Sharp-tailed Sandpiper

maritima, Purple Sandpiper
 ptilocnemis, Rock Sandpiper
 alpina, Dunlin
 ferruginea, Curlew Sandpiper
 himantopus, Stilt Sandpiper
 Eurynorhynchus pygmeus, Spoonbill Sandpiper
 Limicola falcinellus, Broad-billed Sandpiper
 Tryngites subruficollis, Buff-breasted Sandpiper
 Philomachus pugnax, Ruff
 Limnodromus griseus, Short-billed Dowitcher
 scolopaceus, Long-billed Dowitcher
 Lymnocyptes minimus, Jack Snipe
 Gallinago gallinago, Common Snipe
 stenura, Pin-tailed Snipe
 megala, Swinhoe's Snipe
 Scolopax rusticola, Eurasian Woodcock
 minor, American Woodcock
 Phalaropus tricolor, Wilson's Phalarope
 lobatus, Red-necked Phalarope
 fulicaria, Red Phalarope

Family LARIDAE (Skuas, Gulls, Terns, and Skimmers)

Stercorarius pomarinus, Pomarine Jaeger
 parasiticus, Parasitic Jaeger
 longicaudus, Long-tailed Jaeger
 Catharacta skua, Great Skua
 maccormicki, South Polar Skua
 Larus atricilla, Laughing Gull
 pipixcan, Franklin's Gull
 minutus, Little Gull
 ridibundus, Black-headed (=Common Black-headed) Gull
 philadelphia, Bonaparte's Gull
 heermanni, Heermann's Gull
 canus, Mew Gull
 delawarensis, Ring-billed Gull
 californicus, California Gull
 argentatus, Herring Gull
 thayeri, Thayer's Gull
 glaucoides, Iceland Gull
 fuscus, Lesser Black-backed Gull
 schistisagus, Slaty-backed Gull
 livens, Yellow-footed Gull
 occidentalis, Western Gull
 glaucescens, Glaucous-winged Gull
 hyperboreus, Glaucous Gull
 marinus, Great Black-backed Gull
 Rissa tridactyla, Black-legged Kittiwake
 brevirostris, Red-legged Kittiwake
 Rhodostethia rosea, Ross' Gull
 Xema sabini, Sabine's Gull
 Pagophila eburnea, Ivory Gull
 Sterna nilotica, Gull-billed Tern
 caspia, Caspian Tern
 maxima, Royal Tern
 elegans, Elegant Tern
 sandvicensis, Sandwich Tern

dougallii, Roseate Tern
 hirundo, Common Tern
 paradisaea, Arctic Tern
 aleutica, Aleutian Tern
 forsteri, Forster's Tern
 antillarum, Least Tern
 albifrons, Little Tern
 sumatrana, Black-naped Tern
 lunata, Gray-backed Tern
 anaethetus, Bridled Tern
 fuscata, Sooty Tern
 Chlidonias leucopterus, White-winged Tern
 niger, Black Tern
 Anous stolidus, Brown Noddy
 minutus, Black Noddy
 tenuirostris, Lesser Noddy
 Procelsterna cerulea, Blue-gray Noddy
 Gygis alba, White Tern
 Rynchops niger, Black Skimmer

Family ALCIDAE (Auks, Murres, and Puffins)

Alle alle, Dovekie
 Uria aalge, Common Murre
 lomvia, Thick-billed Murre
 Alca torda, Razorbill
 Cepphus grylle, Black Guillemot
 columba, Pigeon Guillemot
 Brachyramphus marmoratus, Marbled Murrelet
 brevirostris, Kittlitz's Murrelet
 Synthliboramphus hypoleucus, Xantus' Murrelet
 craveri, Craveri's Murrelet
 antiquus, Ancient Murrelet
 Ptychoramphus aleuticus, Cassin's Auklet
 Cyclorhynchus psittaculus, Parakeet Auklet
 Aethia pusilla, Least Auklet
 pygmaea, Whiskered Auklet
 cristatella, Crested Auklet
 Cerorhinca monocerata, Rhinoceros Auklet
 Fratercula cirrhata, Tufted Puffin
 arctica, Atlantic Puffin
 corniculata, Horned Puffin

Family COLUMBIDAE (Pigeons and Doves)

Columba squamosa, Scaly-naped Pigeon
 leucocephala, White-crowned Pigeon
 flavirostris, Red-billed Pigeon
 inornata, Plain Pigeon
 fasciata, Band-tailed Pigeon
 Zenaida asiatica, White-winged Dove
 aurita, Zenaida Dove
 macroura, Mourning Dove
 Columbina inca, Inca Dove
 passerina, Common Ground-Dove
 talpacoti, Ruddy Ground-Dove
 Leptotila verreauxi, White-tipped Dove
 Geotrygon chrysis, Key West Quail-Dove

mystacea, Bridled Quail-Dove
montana, Ruddy Quail-Dove

Family CUCULIDAE (Cuckoos, Roadrunners, and Anis)

Cuculus canorus, Common Cuckoo
saturatus, Oriental Cuckoo
fugax, Hodgson's Hawk-Cuckoo
Coccyzus erythrophthalmus, Black-billed Cuckoo
americanus, Yellow-billed Cuckoo minor, Mangrove Cuckoo
Geococcyx californianus, Greater Roadrunner
Saurothera vieilloti, Puerto Rican Lizard-Cuckoo
Crotophaga ani, Smooth-billed Ani
sulcirostris, Groove-billed Ani

Family TYTONIDAE (Barn Owls)

Tyto alba, Barn Owl (=Common Barn-Owl)

Family STRIGIDAE (Typical Owls)

Otus flammeolus, Flammulated Owl
asio, Eastern Screech-Owl
kennicottii, Western Screech-Owl
trichopsis, Whiskered Screech-Owl
nudipes, Puerto Rican Screech-Owl
Bubo virginianus, Great Horned Owl
Nyctea scandiaca, Snowy Owl
Surnia ulula, Hawk Owl (=Northern Hawk-Owl)
Glaucidium gnoma, Northern Pygmy-Owl
brasilianum, Ferruginous Pygmy-Owl
Micrathene whitneyi, Elf Owl
Speotyto (=Athene) cucularia, Burrowing Owl
Strix occidentalis, Spotted Owl
varia, Barred Owl
nebulosa, Great Gray Owl
Asio otus, Long-eared Owl
flammeus, Short-eared Owl
Aegolius funereus, Boreal Owl
acadicus, Northern Saw-whet Owl

Family CAPRIMULGIDAE (Goatsuckers)

Chordeiles acutipennis, Lesser Nighthawk
minor, Common Nighthawk
gundlachii, Antillean Nighthawk
Nyctidromus albicollis, Pauraque (=Common Pauraque)
Phalaenoptilus nuttallii, Common Poorwill
Caprimulgus carolinensis, Chuck-will's-widow
ridgwayi, Buff-collared Nightjar
vociferus, Whip-poor-will
noctitherus, Puerto Rican Nightjar
indicus, Jungle Nightjar

Family APODIDAE (Swifts)

Crypseloides niger, Black Swift
Streptoprocne zonaris, White-collared Swift
Chaetura pelagica, Chimney Swift
vauxi, Vaux's Swift
Hirundapus caudacutus, White-throated Needletail

Apus apus, Common Swift
 pacificus, Fork-tailed Swift
Aeronautes saxatalis, White-throated Swift
Tachornis phoenicobia, Antillean Palm Swift

Family TROCHILIDAE (Hummingbirds)

Colibri thalassinus, Green Violet-ear
Anthracothorax dominicus, Antillean Mango
 viridis, Green Mango
Eulampis holosericeus, Green-throated Carib
Orthorhynchus cristatus, Antillean Crested Hummingbird
Chlorostilbon maugaeus, Puerto Rican Emerald
Cyananthus latirostris, Broad-billed Hummingbird
Hylocharis leucotis, White-eared Hummingbird
Amazilia beryllina, Berylline Hummingbird
 yucatanensis, Buff-bellied Hummingbird
 violiceps, Violet-crowned Hummingbird
Lampornis clemenciae, Blue-throated Hummingbird
Eugenes fulgens, Magnificent Hummingbird
Helimaster constantii, Plain-capped Starthroat
Calliphlox evelynae, Bahama Woodstar
Calothorax lucifer, Lucifer Hummingbird
Archilochus colubris, Ruby-throated Hummingbird
 alexandri, Black-chinned Hummingbird
Calypte anna, Anna's Hummingbird
 costae, Costa's Hummingbird
Stellula calliope, Calliope Hummingbird
Selasphorus platycercus, Broad-tailed Hummingbird
 rufus, Rufous Hummingbird
 sasin, Allen's Hummingbird

Family TROGONIDAE (Trogons)

Trogon elegans, Elegant Trogon
Euptilotus neoxenus, Eared Trogon

Family UPUPIDAE (Hoopoes)

Upupa epops, Hoopoe

Family ALCEDINIDAE (Kingfishers)

Ceryle torquata, Ringed Kingfisher
 alcyon, Belted Kingfisher
Chloroceryle americana, Green Kingfisher

Family PICIDAE (Woodpeckers and Allies)

Jynx torquilla, Eurasian Wryneck
Melanerpes lewis, Lewis' Woodpecker
 erythrocephalus, Red-headed Woodpecker
 formicivorus, Acorn Woodpecker
 urophygialis, Gila Woodpecker
 aurifrons, Golden-fronted Woodpecker
 carolinus, Red-bellied Woodpecker
 portoricensis, Puerto Rican Woodpecker
Sphyrapicus varius, Yellow-bellied Sapsucker
 nuchalis (=varius), Red-naped (=Yellow-bellied) Sapsucker
 ruber, Red-breasted Sapsucker
 thyroideus, Williamson's Sapsucker

Picoides scalaris, Ladder-backed Woodpecker
nuttallii, Nuttall's Woodpecker
pubescens, Downy Woodpecker
villosus, Hairy Woodpecker
stricklandi, Strickland's Woodpecker
borealis, Red-cockaded Woodpecker
albolarvatus, White-headed Woodpecker
tridactylus, Three-toed Woodpecker
arcticus, Black-backed Woodpecker
Colaptes auratus, Northern Flicker
chrysoides (=auratus), Gilded (=Northern) Flicker
Dryocopus pileatus, Pileated Woodpecker
Campephilus principalis, Ivory-billed Woodpecker

Family TYRANNIDAE (Tyrant Flycatchers)

Elaenia martinica, Caribbean Elaenia
Camptostoma imberbe, Northern Beardless-Tyrannulet
Contopus borealis, Olive-sided Flycatcher
pertinax, Greater Pewee
sordidulus, Western Wood-Pewee
virens, Eastern Wood-Pewee
latirostris, Lesser Antillean Pewee
Empidonax flaviventris, Yellow-bellied Flycatcher
virescens, Acadian Flycatcher
alnorum, Alder Flycatcher
traillii, Willow Flycatcher
minimus, Least Flycatcher
hammondii, Hammond's Flycatcher
oberholseri, Dusky Flycatcher
wrightii, Gray Flycatcher
difficilis, Pacific-slope (=Western) Flycatcher
occidentalis (=difficilis), Cordilleran (=Western) Flycatcher
fulvifrons, Buff-breasted Flycatcher
Sayornis nigricans, Black Phoebe
phoebe, Eastern Phoebe
saya, Say's Phoebe
Pyrocephalus rubinus, Vermilion Flycatcher
Myiarchus tuberculifer, Dusky-capped Flycatcher
cinerascens, Ash-throated Flycatcher
nuttingi, Nutting's Flycatcher
crinitus, Great Crested Flycatcher
tyrannulus, Brown-crested Flycatcher
antillarum, Puerto Rican Flycatcher
Pitangus sulphuratus, Great Kiskadee
Myiodynastes luteiventris, Sulphur-bellied Flycatcher
Tyrannus melancholicus, Tropical Kingbird
couchii, Couch's Kingbird
vociferans, Cassin's Kingbird
crassirostris, Thick-billed Kingbird
verticalis, Western Kingbird
tyrannus, Eastern Kingbird
dominicensis, Gray Kingbird
caudifasciatus, Loggerhead Kingbird
forficatus, Scissor-tailed Flycatcher
savana, Fork-tailed Flycatcher

Pachyramphus aglaiae, Rose-throated Becard

Family ALAUDIDAE (Larks)

Alauda arvensis, Sky (=Eurasian) Lark (=Skylark)
Eremophila alpestris, Horned Lark

Family HIRUNDINIDAE (Swallows)

Progne subis, Purple Martin
 cryptoleuca, Cuban Martin
 dominicensis, Caribbean Martin
 chalybea, Gray-breasted Martin
Tachycineta bicolor, Tree Swallow
 thalassina, Violet-green Swallow
 cyaneoviridis, Bahama Swallow
Stelgidopteryx serripennis, Northern Rough-winged Swallow
Riparia riparia, Bank Swallow
Hirundo pyrrhonota, Cliff Swallow
 fulva, Cave Swallow
 rustica, Barn Swallow
Delichon urbica, Common House-Martin

Family CORVIDAE (Jays, Magpies, and Crows)

Perisoreus canadensis, Gray Jay
Cyanocitta stelleri, Steller's Jay
 cristata, Blue Jay
Cyanocorax yncas, Green Jay
 morio, Brown Jay
Aphelocoma coerulescens, Florida (=Scrub) Scrub-Jay (=Jay)
 insularis, Island (=Scrub) Scrub-Jay (=Jay)
 californica, Western (=Scrub) Scrub-Jay (=Jay)
 ultramarina, Mexican (=Gray-breasted) Jay
Gymnorhinus cyanocephalus, Pinyon Jay
Nucifraga columbiana, Clark's Nutcracker
Pica pica, Black-billed Magpie
 nuttalli, Yellow-billed Magpie
Corvus brachyrhynchos, American Crow
 caurinus, Northwestern Crow
 leucognaphalus, White-necked Crow
 imparatus, Mexican Crow
 ossifragus, Fish Crow
 hawaiiensis, Hawaiian Crow
 cryptoleucus, Chihuahuan Raven
 corax, Common Raven

Family PARIDAE (Titmice)

Parus atricapillus, Black-capped Chickadee
 carolinensis, Carolina Chickadee
 sclateri, Mexican Chickadee
 gambeli, Mountain Chickadee
 cinctus, Siberian Tit
 hudsonicus, Boreal Chickadee
 rufescens, Chestnut-backed Chickadee
 wollweberi, Bridled Titmouse
 inornatus, Plain Titmouse
 bicolor, Tufted Titmouse

Family REMIZIDAE (Verdins)

Auriparus flaviceps, Verdin

Family AEGITHALIDAE (Bushtits)

Psaltriparus minimus, Bushtit

Family SITTIDAE (Nuthatches)

Sitta canadensis, Red-breasted Nuthatch
carolinensis, White-breasted Nuthatch
pygmaea, Pygmy Nuthatch
pusilla, Brown-headed Nuthatch

Family CERTHIIDAE (Creepers)

Certhia americana, Brown Creeper

Family TROGLODYTIDAE (Wrens)

Campylorhynchus brunneicapillus, Cactus Wren
Salpinctes obsoletus, Rock Wren
Catherpes mexicanus, Canyon Wren
Thryothorus ludovicianus, Carolina Wren
bewickii, Bewick's Wren
Troglodytes aedon, House Wren
troglodytes, Winter Wren
Cistothorus platensis, Sedge Wren
palustris, Marsh Wren

Family CINCLIDAE (Dippers)

Cinclus mexicanus, American Dipper

Family MUSCICAPIDAE (Kinglets, Gnatcatchers, Thrushes, and Allies)

Locustella ochotensis, Middendorff's Grasshopper-Warbler
Phylloscopus borealis, Arctic Warbler
trochilus, Willow Warbler
Regulus satrapa, Golden-crowned Kinglet
calendula, Ruby-crowned Kinglet
Polioptila caerulea, Blue-gray Gnatcatcher
melanura, Black-tailed Gnatcatcher
californica (=melanura), California (=Black-tailed) Gnatcatcher
nigriceps, Black-capped Gnatcatcher
Muscicapa griseisticta, Gray-spotted Flycatcher
narcissina, Narcissus Flycatcher
Luscinia calliope, Siberian Rubythroat
svecica, Bluethroat
Monticola solitarius, Blue Rock Thrush
Oenanthe oenanthe, Northern Wheatear
Sialia sialis, Eastern Bluebird
mexicana, Western Bluebird
currucoides, Mountain Bluebird
Myadestes townsendi, Townsend's Solitaire
(=Phaeornis) *myadestinus* (=obscurus), Kamao (=Hawaiian Thrush)
(=Phaeornis) *lanaiensis*, (=obscurus), Olomao (=Hawaiian Thrush)
(=Phaeornis) *obscurus*, Omao (=Hawaiian Thrush)
(=Phaeornis) *palmeri*, Puaiohi (=Small Hawaiian Thrush)
Catharus fuscescens, Veery
minimus, Gray-cheeked Thrush
bicknelli (=minimus), Bicknell's (=Gray-cheeked) Thrush

ustulatus, Swainson's Thrush
guttatus, Hermit Thrush
Hylocichla mustelina, Wood Thrush
Turdus plumbeus, Red-legged Thrush
obscurus, Eyebrowed (=Eye-browed) Thrush
naumanni, Dusky Thrush
pilaris, Fieldfare
grayi, Clay-colored Robin
rufopalliatu, Rufous-backed Robin
migratoriu, American Robin
Ixoreus naeviu, Varied Thrush
Ridgwayia pinicola, Aztec Thrush

Family MIMIDAE (Mockingbirds, Thrashers, and Allies)

Dumetella carolinensis, Gray Catbird
Mimus polyglottos, Northern Mockingbird
Oreoscoptes montanus, Sage Thrasher
Toxostoma rufum, Brown Thrasher
longirostre, Long-billed Thrasher
bendirei, Bendire's Thrasher
redivivum, California Thrasher
crissale, Crissal Thrasher
lecontei, Le Conte's Thrasher
Margarops fuscatus, Pearly-eyed Thrasher

Family PRUNELLIDAE (Accentors)

Prunella montanella, Siberian Accentor

Family MOTACILLIDAE (Wagtails and Pipits)

Motacilla flava, Yellow Wagtail
cinerea, Gray Wagtail
alba, White Wagtail
lugens, Black-backed Wagtail
Anthus hodgsoni, Olive-backed (=Olive) Pipit (=Tree-Pipit)
gustavi, Pechora Pipit
cervinus, Red-throated Pipit
rubescens (=spinoletta), American (=Water) Pipit
spragueii, Sprague's Pipit

Family BOMBYCILLIDAE (Waxwings)

Bombycilla garrulus, Bohemian Waxwing
cedrorum, Cedar Waxwing

Family PTILOGONATIDAE (Silky-flycatchers)

Phainopepla nitens, Phainopepla

Family LANIIDAE (Shrikes)

Lanius excubitor, Northern Shrike
ludovicianus, Loggerhead Shrike

Family STURNIDAE (Starlings)

Sturnus philippensis, Violet-backed Starling

cineraceus, Ashy Starling

Family VIREONIDAE (Vireos)

Vireo griseus, White-eyed Vireo
latimeri, Puerto Rican Vireo
bellii, Bell's Vireo
atricapillus, Black-capped Vireo
vicinior, Gray Vireo
solitarius, Solitary Vireo
flavifrons, Yellow-throated Vireo
huttoni, Hutton's Vireo
gilvus, Warbling Vireo
philadelphicus, Philadelphia Vireo
olivaceus, Red-eyed Vireo
flavoviridis (=olivaceus), Yellow-green (=Red-eyed) Vireo
altiloquus, Black-whiskered Vireo

Family EMBERIZIDAE (Emberizids)

Subfamily PARULINAE (Wood-Warblers)

Vermivora bachmanii, Bachman's Warbler
pinus, Blue-winged Warbler
chrysoptera, Golden-winged Warbler
peregrina, Tennessee Warbler
celata, Orange-crowned Warbler
ruficapilla, Nashville Warbler
virginiae, Virginia's Warbler
crissalis, Colima Warbler
luciae, Lucy's Warbler
Parula americana, Northern Parula
pitiayumi, Tropical Parula
Dendroica petechia, Yellow Warbler
pennsylvanica, Chestnut-sided Warbler
magnolia, Magnolia Warbler
tigrina, Cape May Warbler
caerulescens, Black-throated Blue Warbler
coronata, Yellow-rumped Warbler
nigrescens, Black-throated Gray Warbler
townsendi, Townsend's Warbler
occidentalis, Hermit Warbler
virens, Black-throated Green Warbler
chrysoparia, Golden-cheeked Warbler
fusca, Blackburnian Warbler
dominica, Yellow-throated Warbler
graciae, Grace's Warbler
adelaidae, Adelaide's Warbler
pinus, Pine Warbler
kirtlandii, Kirtland's Warbler
discolor, Prairie Warbler
palmarum, Palm Warbler
castanea, Bay-breasted Warbler
striata, Blackpoll Warbler
cerulea, Cerulean Warbler
angelae, Elfin Woods Warbler
varia, Black-and-white Warbler
Setophaga ruticilla, American Redstart
Protonotaria citrea, Prothonotary Warbler

Helmitheros vermivorus, Worm-eating Warbler
Limnothlypis swainsonii, Swainson's Warbler
Seiurus aurocapillus, Ovenbird
 noveboracensis, Northern Waterthrush
 motacilla, Louisiana Waterthrush
Oporornis formosus, Kentucky Warbler
 agilis, Connecticut Warbler
 philadelphia, Mourning Warbler
 tolmiei, MacGillivray's Warbler
Geothlypis trichas, Common Yellowthroat
 poliocephala, Gray-crowned Yellowthroat
Wilsonia citrina, Hooded Warbler
 pusilla, Wilson's Warbler
 canadensis, Canada Warbler
Cardellina rubrifrons, Red-faced Warbler
Myioborus pictus, Painted Redstart
 miniatus, Slate-throated Redstart
Basileuterus culicivorus, Golden-crowned Warbler
 rufifrons, Rufous-capped Warbler
Icteria virens, Yellow-breasted Chat
Peucedramus taeniatus, Olive Warbler
 Subfamily THRAUPINAE (Tanagers)
Spindalis zena, Stripe-headed Tanager
Neospingus speculiferus, Puerto Rican Tanager
Piranga flava, Hepatic Tanager
 rubra, Summer Tanager
 olivacea, Scarlet Tanager
 ludoviciana, Western Tanager
Euphonia musica, Antillean Euphonia
 Subfamily CARDINALINAE (Cardinals, Grosbeaks, and Allies)
Rhodothraupis celaeno, Crimson-collared Grosbeak
Cardinalis cardinalis, Northern Cardinal
 sinuatus, Pyrrhuloxia
Pheucticus chrysopheplus, Yellow Grosbeak
 ludovicianus, Rose-breasted Grosbeak
 malanocephalus, Black-headed Grosbeak
Guiraca caerulea, Blue Grosbeak
Passerina amoena, Lazuli Bunting
 cyanea, Indigo Bunting
 versicolor, Varied Bunting
 ciris, Painted Bunting
Spiza americana, Dickcissel
 Subfamily EMBERIZINAE (Sparrows and Allies)
Arremonops rufivirgatus, Olive Sparrow
Pipilo chlorurus, Green-tailed Towhee
 erythrophthalmus, Eastern (=Rufous-sided) Towhee
 maculatus (=erythrophthalmus), Spotted (=Rufous-sided) Towhee
 fuscus, Canyon (=Brown) Towhee
 crissalis (=fuscus), California (=Brown) Towhee
 aberti, Abert's Towhee
Sporophila torqueola, White-collared Seedeater
Tiaris olivacea, Yellow-faced Grassquit
 bicolor, Black-faced Grassquit
Loxigilla portoricensis, Puerto Rican Bullfinch
Aimophila aestivalis, Bachman's Sparrow
 botterii, Botteri's Sparrow

cassinii, Cassin's Sparrow
 carpalis, Rufous-winged Sparrow
 ruficeps, Rufous-crowned Sparrow
 Spizella arborea, American Tree Sparrow
 passerina, Chipping Sparrow
 pallida, Clay-colored Sparrow
 breweri, Brewer's Sparrow
 pusilla, Field Sparrow
 wortheni, Worthen's Sparrow
 atrogularis, Black-chinned Sparrow
 Poecetes gramineus, Vesper Sparrow
 Chondestes grammacus, Lark Sparrow
 Amphispiza bilineata, Black-throated Sparrow
 belli, Sage Sparrow
 quinquestriata, Five-striped Sparrow
 Calamospiza melanocorys, Lark Bunting
 Passerculus sandwichensis, Savannah Sparrow
 Ammodramus bairdii, Baird's Sparrow
 savannarum, Grasshopper Sparrow
 henslowii, Henslow's Sparrow
 leconteii, Le Conte's Sparrow
 caudacutus, Saltmarsh Sharp-tailed (=Sharp-tailed) Sparrow
 nelsoni (=caudacutus), Nelson's Sharp-tailed (=Sharp-tailed) Sparrow
 maritimus, Seaside Sparrow
 Passerella iliaca, Fox Sparrow
 Melospiza melodia, Song Sparrow
 lincolni, Lincoln's Sparrow
 georgiana, Swamp Sparrow
 Zonotrichia albicollis, White-throated Sparrow
 atricapilla, Golden-crowned Sparrow
 leucophrys, White-crowned Sparrow
 querula, Harris' Sparrow
 Junco hyemalis, Dark-eyed Junco
 phaeonotus, Yellow-eyed Junco
 Emberiza rustica, Rustic Bunting
 pallasi, Pallas' Bunting (=Reed-Bunting)
 schoeniculus, Reed (=Common) Bunting (=Reed-Bunting)
 Calcarius mccownii, McCown's Longspur
 lapponicus, Lapland Longspur
 pictus, Smith's Longspur
 ornatus, Chestnut-collared Longspur
 Plectrophenax nivalis, Snow Bunting
 hyperboreus, McKay's Bunting
Subfamily ICTERIDAE (Blackbirds and Allies)
 Dolichonyx oryzivorus, Boblink
 Agelaius phoeniceus, Red-winged Blackbird
 tricolor, Tricolored Blackbird
 humeralis, Tawny-shouldered Blackbird
 xanthomus, Yellow-shouldered Blackbird
 Sturnella magna, Eastern Meadowlark
 neglecta, Western Meadowlark
 Xanthocephalus xanthocephalus, Yellow-headed Blackbird
 Euphagus carolinus, Rusty Blackbird
 cyanocephalus, Brewer's Blackbird
 Quiscalus mexicanus, Great-tailed Grackle
 major, Boat-tailed Grackle

quiscula, Common Grackle
niger, Greater Antillean Grackle
Molothrus bonariensis, Shiny Cowbird
aeneus, Bronzed Cowbird
ater, Brown-headed Cowbird
Icterus dominicensis, Black-cowled Oriole
wagleri, Black-vented Oriole
spurius, Orchard Oriole
cucullatus, Hooded Oriole
pustulatus, Streak-backed Oriole
gularis, Altamira Oriole
graduacauda, Audubon's Oriole
galbula, Baltimore (=Northern) Oriole
bullockii (=galbula), Bullock's (=Northern) Oriole
parisorum, Scott's Oriole

Family FRINGILLIDAE (Finches)

Fringilla montifringilla, Brambling
Leucosticte atrata (=arctoa), Black (=Rosy) Rosy-Finch (=Finch)
australis (=arctoa), Brown-capped (=Rosy) Rosy-Finch (=Finch)
tephrocotis (=arctoa), Gray-crowned (=Rosy) Rosy-Finch (=Finch)
Pinicola enucleator, Pine Grosbeak
Carpodacus erythrinus, Common Rosefinch
purpureus, Purple Finch
cassinii, Cassin's Finch
mexicanus, House Finch
Loxia curvirostra, Red Crossbill
leucoptera, White-winged Crossbill
Carduelis flammea, Common Redpoll
hornemanni, Hoary Redpoll
pinus, Pine Siskin
psaltria, Lesser Goldfinch
lawrencei, Lawrence's Goldfinch
tristis, American Goldfinch
sinica, Oriental Greenfinch
Pyrrhula pyrrhula, Eurasian Bullfinch
Coccothraustes vespertinus, Evening Grosbeak
coccothraustes, Hawfinch

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APPENDIX G

INRMP ANNUAL REVIEWS

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CONTENTS

ARNG-ILE Guidance for INRMP Annual Review and Reporting (30 Sep 2010)	Page 1
INRMP Annual Review Report Template.....	Page 3
Sparta Training Area Annual Review Documentation (Updated Annually).....	Page 4

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NATIONAL GUARD BUREAU
111 SOUTH GEORGE MASON DRIVE
ARLINGTON VA 22204-1382

ARNG-ILE

30 Sep 10

MEMORANDUM FOR ENVIRONMENTAL PROGRAM MANAGERS

**SUBJECT: Guidance for Integrated Natural Resource Management Plan (INRMP)
Annual Review and Reporting**

1. References:

a. Memorandum, NGB-ARE-C, 30 Nov 2006, Subject: Interim Guidance for Revisions and Updates to Existing Integrated Natural Resources Management Plans (INRMPs).

b. Memorandum, DAIM-ED, 25 May 2006, Subject: Guidance for Implementation of the Sikes Act Improvement Act.

c. 16 USC 670a, et eq, Sikes Act Improvement Act of 1997 (SAIA).

2. In accordance with references 1a, 1b, and 1c, Integrated Natural Resource Management Plans (INRMP) must be reviewed annually. The annual review must be submitted to ARNG-ILE, the respective U.S. Fish and Wildlife Service Regional and/or Field Offices, and the State Fish and Wildlife agencies. The annual review DOES NOT require agency concurrence, public review, or ARNG-ILE staffing and concurrence.

3. In accordance with reference 1b Army policy requires the following program areas be addressed annually:

a. All "must fund" projects and activities have been budgeted for and implementation is on schedule.

b. All required trained natural resources positions are filled or are in the process of being filled.

c. Projects and activities for the upcoming year have been identified and included in the INRMP. Any changes made during the previous year shall also be discussed.

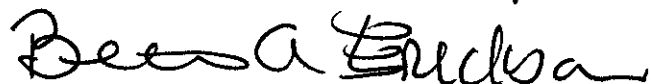
d. All required coordination has occurred.

e. All significant changes to the installation's mission requirements or its natural resources have been identified.

ARNG-ILE

SUBJECT: Guidance for Integrated Natural Resource Management Plan (INRMP)
Annual Review and Reporting

- f. The INRMP goals and objectives are still valid.
 - g. No net loss of training capability has occurred due to implementation of the INRMP in accordance with the Sikes Act.
4. An ARNG-ILE Annual Review Template is attached and is intended to address required elements of the annual review. Plan implementation is best addressed via tables indicating current and planned activities, as well as the status of current activities. Internal and external personnel and stakeholders may be addressed with a simple list of positions and status of required personnel to meet INRMP goals and objectives.
5. The deadline for submission of the 2010 annual review and report to ARNG-ILE is 15 Oct 2010. If you have not submitted an annual review for 2010 please do so before this deadline.
6. Beginning in 2011, deadlines for the annual review and report will be dependent on the date of the initial INRMP approval. Reports may be submitted at any time in the quarter prior to the reporting deadline. Reviews should occur at approximately the same time each year. A list of INRMP's and their annual review dates is also attached. If you believe the date for the completion of your INRMP is incorrect, please contact the Point of Contact (POC) listed below.
7. Also beginning in 2011, the submission of the annual report will be tracked in the State Performance Indicator Report System (SPIRS) and reported on a quarterly basis. The SPIRS is submitted to the state Adjutant General (TAG) from ARNG-ILE. It provides the TAG a brief picture on how ARNG-ILE sees state compliance with various requirements. A list of SPIRS deadline dates can be seen in the attached SPIRS INRMP Guidance file.
8. The POC is Mr. Chuck Chamberlain, Army National Guard Natural Resource Program Manager, 703-607-7982, or chuck.chamberlain@us.army.mil.



BETH A. ERICKSON
Chief, Training and Infrastructure Branch

Encl
as

INRMP ANNUAL REPORT

To:

From:

Subject: ARNG Annual Report on Implementation Status of the Integrated Natural Resource Management Plan (INRMP)

Date:

Reporting Period:

(Period report covers, i.e. 1 May 09 – 1 May 10.)

Annual Coordination Meeting: *(Identify the date and attendees of annual coordination. Indicate if this correspondence will be used in lieu of 'face-to-face' meetings. Use the following headers to document review findings)*

Program Overview: *(Short paragraph addressing the goals and objectives of the plan, the status of the mission requirements relative to the current plan and the issue of "no net loss" to training.)*

Current Implementation Status: *(List all projects for the current reporting period, those completed or on-going, and those that were planned but not initiated. Also indicate if any projects were rescheduled and the proposed new timeline. Please attach a table of projects for the last fiscal year.)*

Proposed Implementation: *(List all projects and actions planned for the next reporting period. Please attach a table of proposed projects for next fiscal year.)*

Installation Personnel: *(List by title natural and cultural resource management personnel involved with implementation of the INRMP.)*

USFWS Regional Office Contact Information: *(Enter Point of Contact and contact information.)*

USFWS Field Office Contact Information: *(Enter Point of Contact and contact information.)*

State Fish and Game Agency Contact Information: *(Enter Point of Contact and contact information as applicable. Include all agencies or division involved.)*