

## **APPENDIX A**

### **Record of Environmental Consideration of the Revised Integrated Natural Resources Management Plan for the Volunteer Training Site – Smyrna Tennessee Army National Guard**

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# **R E C**

## **RECORD OF ENVIRONMENTAL CONSIDERATION**

### **2011 IMPLEMENTATION Revised Integrated Natural Resources Management Plan**

#### **VTS-SMYRNA**

**PREPARED BY:**

**CFMO ENVIRONMENTAL OFFICE**

**PREPARED FOR:**

**CFMO MANAGEMENT OFFICE**

**15 OCTOBER 2011**

## ARNG RECORD OF ENVIRONMENTAL CONSIDERATION

**1. PROJECT NAME:**

**2011 INRMP IMPLEMENTATION VTS-Smyrna**

**2. PROJECT NUMBER:**

N/A

**3. DATE:**

15-Oct-11

**4. PROJECT START DATE (dd-mmm-yy):**

Nov 1 2011

**5. PROJECT END DATE (dd-mmm-yy):**

Nov 1 2012

**6. DESCRIPTION AND LOCATION OF THE PROPOSED ACTION:**

Location: VTS-Smyrna, Smyrna, TN Description: REC is for the revision of the 2001 INRMP, which includes an attached EA. There have been no significant changes to this document, as reviewed by NGB Legal. INRMP includes all current RTE listed species, as well as all pertinent Section 7 information. INRMP shall be made available to all related tribes, as well as to the SHPO and adjoining state agencies.

**7. CHOOSE ONE OF THE FOLLOWING:**

- An existing **Environmental Assessment** adequately covers the scope of this project.  
EA Date (dd-mmm-yy) Conducted By:
- An existing **Environmental Impact Statement** adequately covers the scope of this project.  
EIS Date (dd-mmm-yy) Conducted By:
- After reviewing the screening criteria and completing the ARNG Environmental Checklist, this project qualifies for a **Categorical Exclusion** (select one below).  
Categorical Exclusion Code: B-3: Preparation of regulations, procedures, manuals, and other... ▼  
See 32 CFR 651 App. B
- This project is exempt from NEPA requirements under the provisions of:  
Cite superseding law:

**8. REMARKS:**

No environmental issues are noted as part of this proposed action.



*Ralph R. Harder*  
Signature of Proponent (Requester)

Concurrence: *Carson Chess*  
Environmental Program Manager

Ralph R. Harder, CHMM, ID 09766  
Printed Name of Proponent (Requester)

Carson Chess  
Printed Name of Env. Program Manager

15 Oct 2011  
Date Signed

25 Oct 2011  
Date Signed

# ARNG ENVIRONMENTAL CHECKLIST

Enter information in the yellow shaded areas.

## PART A - BACKGROUND INFORMATION

**1. PROJECT NAME:**

2011 INRMP IMPLEMENTATION VTS-Smyrna

**2. PROJECT NUMBER:**

N/A

**3. DATE:**

15-Oct-11

**4. DESCRIPTION AND LOCATION OF THE PROPOSED ACTION:**

Location: VTS-Smyrna, Smyrna, TN Description: REC is for the revision of the 2001 INRMP, which includes an attached EA. There have been no significant changes to this document, as reviewed by NGB Legal. INRMP includes all current RTE listed species, as well as all pertinent Section 7 information. INRMP shall be made available to all related tribes, as well as to the SHPO and adjoining state agencies.

5. START DATE (dd-mmm-yy): Nov 1 2011

6. END DATE (dd-mmm-yy): Nov 1 2012

7. STATE/ORGANIZATION: TN-ARNG

8. SERVICE COMPONENT: ARNG

9. ADDRESS: 3041 Sidco Drive Nashville, TN 37204

10. PROPONENT/UNIT NAME: AGTN-CFMO

11. POC: Ralph Harder - Env. Engineer

12. PROPONENT/UNIT ADDRESS: 3041 Sidco Dr RM 314 Nashville, TN 37204

13. COMM VOICE: 615-313-0607

14. COMM FAX: 313-0766

15. DSN VOICE: 683-0607

16. DSN FAX: 683-0766

17. EMAIL: ralph.harder@tn.ngb.army.mil

18. Was the project adequately addressed in a separate environmental review? Do not include Environmental  YES  NO

**Baseline Surveys (EBSs).**

If YES, fill out and attach copy of the decision document:

Document Title:

Reviewing Agency:

Date of Review: (dd-mmm-yy):

## PART B - HISTORICAL INFORMATION

1. Is the agency undergoing, or has it undergone, legal action for NEPA issues?  YES  NO

2. Has there been previous ARNG training, construction, or similar proposals on the site?  YES  NO

3. Are there any known contentious environmental issues currently associated with the site?  YES  NO

Explain any YES answers.

Construction and training have previously been conducted at this site.

4. Has the proposed type of equipment (tracked or wheeled) been operated on the site before?  YES  NO

If NO, what NEPA document covers this action? Provide copy of REC, FNSI, or ROD. This does not include EBSs.

Document Title: EA for Implementation of INRMP Management Plan

Preparing Agency: TNARNG

Date (dd-mmm-yy): Sep-09

5. Describe the environmental setting, including past and present use of the site.

The site has been used as an active military facility for over the past 60 years. This revision to the existing INRMP, will have no effect on existing environmental setting of property.

## PART C - DESCRIPTION OF PROPOSED PROJECT/ACTION

**Include a map with the site clearly marked**

1. The proposed action will involve (check all that apply):
- |  |   |  |
|--|---|--|
| <input type="checkbox"/> Training Activities/Areas                         | <input type="checkbox"/> Construction     | <input type="checkbox"/> Reorganization/Restationing |
| <input type="checkbox"/> Maintenance/Repair/Rehabilitation                 | <input type="checkbox"/> Lease or License | <input type="checkbox"/> Environmental Plans/Surveys |
| <input type="checkbox"/> EBS Preparation                                   |   |  |
| <input checked="" type="checkbox"/> Other (Explain): <b>INRMP Revision</b> |   |  |

2. Has any related real estate action been addressed in a separate environmental document within the last 5 years?  YES  NO

**If YES** Document Title: \_\_\_\_\_ Date (dd-mmm-yy): \_\_\_\_\_

3. Number of acres to be disturbed: **none**

4. How is the site currently zoned?

<input type="checkbox"/> Residential	<input type="checkbox"/> Commercial	<input type="checkbox"/> Industrial	<input type="checkbox"/> Park
<input checked="" type="checkbox"/> Other (Explain): <b>Federal Military Training Facility</b>			

5. Briefly describe the surrounding area land uses (e.g., undeveloped, recreation, residential, etc):  
 The site is bordered to the north by Percy Priest Lake (recreational), to the west by the Smyrna-Rutherford County Airport (commercial), and to the south and east by light commercial, as well as residential properties.

6. Provide distances to ALL environmentally sensitive areas:

TYPE	Distance	Unit	TYPE	Distance	Unit
a. Prime/Unique Farmland	N/A		e. Wild/Scenic River	<15	miles
b. Wilderness Area/National Park	<25	miles	f. Coastal Zones	>400	miles
c. Sole-Source Aquifer	NA		g. Floodplain	<3	miles
d. Wetlands	<1	mile			

## PART D - ENVIRONMENTAL IMPACT ANALYSIS

### 1. AIR

a. Is the proposed action in a non-attainment/maintenance area?  YES  NO

**Attach a General Conformity Determination or Record of Non-Applicability (RONA) for Military Construction activities in non-attainment/maintenance areas.**

b. Will the proposed action require an air emissions permit, registration, license, etc?	During proposed action	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO
	During normal operations after proposed action is completed	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO
c. Will the proposed action release objectionable odors, smoke, dust, suspended particles, or noxious gases into the air?	During proposed action	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO
	During normal operations after proposed action is completed	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO
d. Will the proposed action expose sensitive receptors (threatened or endangered plants or animals, or children) to pollutants?	During proposed action	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO
	During normal operations after proposed action is completed	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO

Explain any **YES** answers and/or planned mitigation here.

### 2. TRAFFIC

- a. Will the proposed action result in generation of or increase in aircraft activity/traffic?  YES  NO
- b. Will the proposed action result in the generation of or increase in vehicular traffic?  YES  NO

c. Will the proposed action use and/or construct unimproved roads?

During proposed action  YES  NO  
 During normal operations after proposed action is completed  YES  NO

Explain any **YES** answers and/or planned mitigation here. Include aircraft types, number of sorties, and flight schedules (if applicable).

### 3. NOISE

a. Will the proposed action result in an increase in noise levels?

During proposed action  YES  NO  
 During normal operations after proposed action is completed  YES  NO

b. Is the proposed action close to any civilian activity where noise might affect the population (add any not listed in the spaces provided)? Include distances for all types:

YES  NO

TYPE	Distance	Unit	TYPE	Distance	Unit
(1) Residence/Home			(5) Library		
(2) Church			(6) Wilderness Area		
(3) School					
(4) Hospital					

c. Will the proposed action involve aircraft?

YES  NO

d. Will the proposed action involve night (10 pm to 7 am) operations?

During proposed action  YES  NO  
 During normal operations after proposed action is completed  YES  NO

Explain any **YES** answers.

### 4. EARTH

a. Will the proposed action result in long-term disruptions, displacements, compaction, or overcovering of soil, a permanent change in topography, or ground surface relief features?

YES  NO

b. Will the proposed action result in a long-term increase in wind or water soil erosion, on or off the site, after the proposed action is completed?

YES  NO

Explain any **YES** answers.

### 5. NATURAL RESOURCES

NOTE- A **subject matter expert** from the State/Territory ARNG Environmental Office must confirm the answers to these questions by signing the signature page.

a. Will the proposed action change the diversity or numbers of any species including mammals, birds, reptiles, amphibians, fish, trees, shrubs, grasses, crops, microflora, or aquatic plants?

YES  NO

b. Will the proposed action introduce any non-native species into the area?

YES  NO

c. Will the proposed action impact any plants or animals that are listed or candidates for threatened, unique, rare, or endangered status?

YES  NO

d. Will the proposed action create barriers to prevent the migration or movement of animals?

YES  NO

- e. Will the proposed action deteriorate, alter, or destroy existing fish or wildlife habitat?  YES  NO
- f. Will the proposed action deplete any non-renewable natural resources?  YES  NO
- g. Will the proposed action alter, destroy, or significantly impact environmentally sensitive areas (wetlands, coastal zones, etc.)?  YES  NO

Explain any YES answers.

**6. LAND USE**

- a. Will the proposed action alter the present land use of the site?  YES  NO
  - b. Who owns the property?  Federal/DOD  State  City/Town/County  Private  
 Other (Explain): **Military Facility**
  - c. Does the proposed action involve a real estate action (e.g., purchase, lease, permit, or license)?  YES  NO
- |   |  |  |                              |                             |
|---|--|--|------------------------------|-----------------------------|
| Answer the following if you answered YES above: | (1) Has an EBS been completed? <b>If YES, attach the EBS.</b>                      |  | <input type="checkbox"/> YES | <input type="checkbox"/> NO |
|   | (2) Require an increase of acreage/amendment to an existing lease or license?      |  | <input type="checkbox"/> YES | <input type="checkbox"/> NO |
|   | (3) Require new purchase of additional acres using federal, state, or other funds? |  | <input type="checkbox"/> YES | <input type="checkbox"/> NO |
|   | (4) Require a new lease, license, and/or land use permit?                          |  | <input type="checkbox"/> YES | <input type="checkbox"/> NO |
|   | (5) Replace or dispose of existing facilities?                                     |  | <input type="checkbox"/> YES | <input type="checkbox"/> NO |

Explain any YES answers.

**7. SOLID WASTE**

- a. Will the proposed action generate solid wastes that must be disposed of on or off site?  YES  NO

Explain a YES answer.

**8. HAZARDOUS WASTE**

- a. Will the proposed action generate hazardous waste?  YES  NO
- b. Will the proposed action store and/or prepare for the disposal of hazardous waste or materials?
 

	During proposed action		<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO
	During normal operations after proposed action is completed		<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO
- c. Does the proposed action require a permit to accumulate hazardous waste or materials at the site?
 

	During proposed action		<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO
	During normal operations after proposed action is completed		<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO
- d. Does the proposed action have an increased risk for explosion, spill, or the release of hazardous waste or materials (including but not limited to pesticides, chemicals, or radiation)?
 

	During proposed action		<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO
	During normal operations after proposed action is completed		<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO
- e. Will the proposed action require the presence of trained personnel to handle and dispose of hazardous
 

	During proposed action		<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO
	During normal operations after		<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO



f. Will the proposed action involve the opportunity for hazardous material minimization and recycling?

During proposed action  
During normal operations after  
proposed action is completed

YES  NO  
 YES  NO

Explain any **YES** answers.

g. Do you have a plan describing procedures for the proper handling, storage, use, disposal, and cleanup of hazardous and/or toxic materials?

During proposed action  
During normal operations after  
proposed action is completed

YES  NO  
 YES  NO

Explain any **NO** answers.

## 9. WATER

a. Will the proposed action change currents, course, or direction of water movements in marine or fresh waters?

YES  NO

b. Will the proposed action discharge sediments, liquids, or solid wastes into surface waters, or alter the surface water quality?

During proposed action  
During normal operations after  
proposed action is completed

YES  NO  
 YES  NO

c. Will the proposed action change the quality and/or quantity of ground waters, either through direct additions or withdrawals, or through interception of an aquifer by cuts or excavations?

YES  NO

d. Does the proposed action have the potential to accidentally spill hazardous or toxic materials in or near a body of water?

During proposed action  
During normal operations after  
proposed action is completed

YES  NO  
 YES  NO

e. Does the proposed action have the need for a Spill Control and Countermeasure Plan, and/or Installation Spill Contingency Plan (SPCC and/or ISCP)?

During proposed action  
During normal operations after  
proposed action is completed

YES  NO  
 YES  NO

f. Will the proposed action construct facilities or implement actions within floodplains and/or wetlands?

During proposed action  
During normal operations after  
proposed action is completed

YES  NO  
 YES  NO

g. Does the proposed action require an NPDES stormwater or wastewater discharge permit?

YES  NO

h. Does the proposed action involve the construction of a water or wastewater treatment system (oil water separators, grease traps, etc)?

YES  NO

Explain any **YES** answers.

## 10. CULTURAL RESOURCES

- a. Does the proposed action involve an undertaking (Reference: 36 CFR 800.161[y]) to a building/structure 50 years or older?  YES  NO  
**If YES** to Question a, has an architectural inventory/evaluation been completed to determine eligibility for the National Register of Historic Places?  YES  NO
- b. Does the proposed action involve ground disturbance? (Reference: 36 CFR 800.161[y])  YES  NO  
**If YES** to Question b, has an archaeological inventory been completed to determine if there are any archaeological sites present?  YES  NO  
**If YES** to Question b, did the state contact any Federally-recognized Tribes to comment on the proposed action?  YES  NO
- c. Does the proposed action fall under any Federal or Nationwide Programmatic Agreement or Programmatic Comment? **If YES**, reference it below.  YES  NO
- d. Has the state contacted the SHPO for comments?  YES  NO
- e. Does the proposed action have the potential to affect any traditional cultural properties or sacred sites? **If YES**, attach coordination with Federally-recognized Tribes.  YES  NO

Explain any **YES** answers.

SHPO will be contacted as well as all related Indian Tribes as part of this action.

## 11. POPULATION

- a. Will the proposed action alter the location, distribution, density, or growth rate of the human population of an area?  YES  NO
- b. Will the proposed action affect children?  
Reference: Executive Order 13045
- |  |   |                              |  |
|--|---|------------------------------|--|
|  | During proposed action                                      | <input type="checkbox"/> YES | <input checked="" type="checkbox"/> NO |
|  | During normal operations after proposed action is completed | <input type="checkbox"/> YES | <input checked="" type="checkbox"/> NO |
- c. Are there any Environmental Justice issues associated with the proposed action?  
Reference: Executive Order 12898.  YES  NO

Explain any **YES** answers.

## 12. INFRASTRUCTURE

a. Will the proposed action result in the need for new systems or substantial alterations to the following utilities:

- |   |                              |  |
|---|------------------------------|--|
| (1) Electrical power, fossil fuel or other (specify): | <input type="checkbox"/> YES | <input checked="" type="checkbox"/> NO |
| (2) Drinking water?                                   | <input type="checkbox"/> YES | <input checked="" type="checkbox"/> NO |
| (3) Wastewater treatment?                             | <input type="checkbox"/> YES | <input checked="" type="checkbox"/> NO |
| (4) Sewer collection system?                          | <input type="checkbox"/> YES | <input checked="" type="checkbox"/> NO |
| (5) Wash racks?                                       | <input type="checkbox"/> YES | <input checked="" type="checkbox"/> NO |
| (6) Solid waste disposal?                             | <input type="checkbox"/> YES | <input checked="" type="checkbox"/> NO |

Explain any YES answers.

N/A

**PART E - INNOVATIVE READINESS TRAINING (IRT)**  
Skip this portion if this is not an IRT Project

**1. REQUESTER INFORMATION**

a. REQUESTER NAME:		b. TITLE:	
c. AGENCY NAME:			
d. AGENCY ADDRESS:			
e. COMM VOICE:		f. COMM FAX:	g. DSN VOICE:
h. DSN FAX:		i. EMAIL:	
j. TYPE: <input type="checkbox"/> FEDERAL <input type="checkbox"/> STATE <input type="checkbox"/> LOCAL/MUNICIPAL <input type="checkbox"/> YOUTH/CHARITABLE			
k. SUPPORT TYPE REQUESTED: <input type="checkbox"/> ENGINEER <input type="checkbox"/> TRANSPORTATION <input type="checkbox"/> TECH ASSISTANCE <input type="checkbox"/> LOGISTICAL			
<input type="checkbox"/> COMMUNICATION <input type="checkbox"/> ADMINISTRATIVE <input type="checkbox"/> CEREMONIAL <input type="checkbox"/> PARADE			
<input type="checkbox"/> OTHER (SPECIFY):			

**2. ASSIGNED UNIT INFORMATION (Filled out by assigned National Guard unit)**

a. UNIT ASSIGNED PROJECT:		b. SERVICE COMPONENT:	
c. UNIT ADDRESS:			
d. PROJECT OFFICER	RANK:	NAME:	
e. SITE VISIT DATE (dd-mmm-yy)			

f. PROJECT ASSESSMENT (Give detailed assessment of project requirements. Review project requirements against the screening criteria in Section 651.29 of 32 CFR Part 651. If the project qualifies for a Categorical Exclusion, indicate the Categorical Exclusion code).


g. ESTIMATED NUMBER OF HOURS REQUIRED TO COMPLETE PROJECT:		h. PERSONNEL REQUIRED:	<u>OFFICER</u>	<u>ENLISTED</u>
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**PART F - DETERMINATION**

- a. Does the proposed action have the potential to degrade the quality of the environment, or curtail the diversity of the environment?  YES  NO
- b. Does the proposed action have the potential for cumulative impacts on environmental quality when the effects are combined with those of other Federal/State actions, or when the action is of lengthy duration?  YES  NO
- c. Does the proposed action have environmental effects that will cause substantial adverse effects on the human or natural environment, either directly or indirectly?  YES  NO

**On the basis of this initial evaluation, the following is appropriate (check one):**

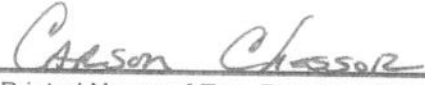
- An **Environmental Baseline Survey (EBS)** and a **new checklist** once the EBS is completed.
- IAW 32 CFR 651 Appendix B, the proposed action qualifies for a **Categorical Exclusion (CX)** that does not require a Record of Environmental Consideration.
- A **Record of Environmental Consideration (REC)**.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

  
\_\_\_\_\_  
Signature of Proponent (Requester)

  
\_\_\_\_\_  
Printed Name of Proponent (Requester)

  
\_\_\_\_\_  
Date Signed

Concurrence:   
\_\_\_\_\_  
Environmental Program Manager

  
\_\_\_\_\_  
Printed Name of Env. Program Manager

  
\_\_\_\_\_  
Date Signed

**Concurrence (as needed):**

\_\_\_\_\_  
Signature of Landowner

\_\_\_\_\_  
Printed Name of Landowner

\_\_\_\_\_  
Date Signed

  
\_\_\_\_\_  
Signature of Facilities Officer

  
\_\_\_\_\_  
Printed Name of Facilities Officer

  
\_\_\_\_\_  
Date Signed

\_\_\_\_\_  
Signature of Commander

\_\_\_\_\_  
Printed Name of Commander

\_\_\_\_\_  
Date Signed

\_\_\_\_\_  
Signature of Plans & Operations Officer

\_\_\_\_\_  
Printed Name of Plans & Operations Officer

\_\_\_\_\_  
Date Signed

## **APPENDIX B**

### **Finding of No Significant Impact for the Integrated Natural Resources Management Plan, 2001, for the Volunteer Training Site – Smyrna Tennessee Army National Guard**

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# **FINDING OF NO SIGNIFICANT IMPACT (FNSI)**

## ***Implementation of an Integrated Natural Resources Management Plan for Volunteer Training Site – Smyrna***

### **Tennessee Army National Guard**

#### **1. DESCRIPTION OF THE PROPOSED ACTION**

The Tennessee Army National Guard (TNARNG) proposes to implement an Integrated Natural Resource Management Plan (INRMP) for the Volunteer Training Site – Smyrna (VTSS), Tennessee. This INRMP complies with the Sikes Act (U.S.C. § 670a *et seq.*) and is consistent with army policy set forth in Army Regulation (AR) 200-3, *Natural Resources- Land, Forest and Wildlife Management*. The INRMP will support the military mission by sustaining the productivity of natural resources. It complies with environmental laws and will help conserve and protect the site’s natural resources, thereby, improving the site’s relationship with the public.

#### **2. ALTERNATIVES**

The Environmental Assessment (EA) examined two alternatives to the proposed action. The preferred alternative was full implementation of the INRMP, and the other alternative was the No Action alternative. The preferred alternative implements the INRMP to the maximum extent possible and in as short a time as practical. It would fully comply with the Sikes Act and AR 200-3. Inclusion of projects listed in the INRMP would not obligate the TNARNG to complete required actions if funding were not available from federal sources. The other alternative, No Action alternative, would not implement the INRMP, and the TNARNG would continue with current methods of natural resources management at the VTSS. In accordance with regulations prompted by CEQ 43 Code of Federal Regulations (CFR), Part 1500, Section 1502.12(d), a “No Action” alternative must be considered. The No Action Alternative was considered despite the fact that implementation of such an alternative would not assure compliance with the Sikes Act or AR 200-3. Therefore, the No Action alternative is not a viable alternative to the TNARNG.

#### **3. ANTICIPATED ENVIRONMENTAL IMPACT**

The analysis of potential environmental impact is documented in a combined document and EA entitled: *Volunteer Training Site – Smyrna, Rutherford County, Tennessee, Final Draft Integrated Natural Resources Management Plan and Environmental Assessment.* Impacts to the environment were identified through gathering and comparing information from previous documents, knowledge of standard operating procedures, and analysis of existing environmental conditions.

Implementation of the preferred alternative would have no significant direct or cumulative environmental or socioeconomic impacts. Land use, water resources, vegetation, wildlife, and cultural resources will be positively impacted by implementation of the preferred alternative. Because the proposed action would not involve any

personnel relocations or require significant local goods and services, no cumulative effects on regional demographics, employment, expenditures, or services would occur. Any impact to natural resources that may result from INRMP activities would be mitigated for as part of other INRMP efforts. Because the goals and objectives of the INRMP aim to protect environmental conditions at the VTSS, no mitigation measures are necessary for the proposed action. Many of the INRMP programs themselves serve to mitigate military training impacts to natural resources.

#### **4. REGULATIONS**

There are no indications that implementation of this action will violate any federal, state, or local environmental laws or regulations. The proposed action would not violate the National Environmental Policy Act (42 USC § 4321 to 4370e), its regulations as promulgated by the Council on Environmental Quality (40 CFR Parts 1500-1508), Army Regulation 200-2, *Environmental Effects of Army Actions* or any other federal, state, or local environmental laws or regulations, including EO 12898 “*Federal Actions to Address Environmental Justice in Minority Populations and Low-Income Populations*”, EO 13045 “*Protection of Children from Environmental Health Risks and Safety Risks*”, EO 13175 “*Consultation and Coordination with Indian Tribal Governments*”. The EA documents the status of project compliance with applicable federal environmental statutes and executive orders.

#### **5. CONCLUSION**

A careful review of the Environmental Assessment has concluded that the implementation of an Integrated Natural Resources Management Plan for the Volunteer Training Site – Smyrna, Rutherford County, Tennessee, will not have a significant effect on the quality of the natural or human environment. The requirements of the National Environmental Policy Act and the Council on Environmental Quality Regulations have been satisfied and an Environmental Impact statement (EIS) will not be prepared.

#### **6. PUBLIC REVIEW AND COMMENT**

Copies of the final document review are now available for public review and comment at the Smyrna Public Library in Smyrna, Tennessee 37167. Copies can also be obtained at Headquarters Tennessee Army National Guard, Construction and Facilities Management Office, Environmental Division, 3041 Sidco Drive, Nashville, Tennessee 37204-1502. Telephone requests should be directed to CWR Carson Chessor (Natural Resources Program Manager) at (615) 313-2624 during business hours (8:00 a.m. to 4:30 p.m. Monday through Friday).

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Date

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RICHARD O. MURPHY  
COL, NGB  
Chief, Environmental Programs  
Division



## **APPENDIX C**

### **Agency Correspondence**

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MILITARY DEPARTMENT OF TENNESSEE  
OFFICE OF THE ADJUTANT GENERAL  
HOUSTON BARRACKS  
NASHVILLE  
37204-1502

June 2, 2006

U.S. Fish and Wildlife Service  
Tennessee Field Office  
446 Neal Street  
Cookeville, Tennessee 38501

Dear Sir:

The Tennessee Military Department is beginning the process of revising and updating the Integrated Natural Resources Management Plan (INRMP) for the Tennessee Army National Guard (TNARNG) Volunteer Training Site – Smyrna (VTS-S) in Rutherford County, Tennessee. Army Regulation and the Sikes Act require the TNARNG to develop an INRMP for each of its training site and subject them to a complete revision every five years. The original VTS-S INRMP covered the period 2002-2006. This second edition will cover 2007-2011, and we hope to have a completed document by October 2006.

I am contacting you to inform you of this endeavor and request your agency's participation in the planning process. The USFWS and the Tennessee Wildlife Resources Agency are important cooperators in our task to appropriately manage TNARNG lands and are required signatories to the plan. I would appreciate any insight or information you can provide during the development of the plan.

VTS-S is located next to the Smyrna/Rutherford County Regional Airport in Smyrna, about 22 miles southeast of Nashville, TN. The training site occupies 858 acres on the shores of Stewart Creek and J. Percy Priest Lake. The enclosed map shows the full bounds of the training site. The land is licensed from the Army Corps of Engineers. Natural resources on VTS-S include redcedar forest on the uplands, bottomland hardwood forest along the waterways, and

areas of maintained grassland. There are no known federally listed threatened or endangered species on the training site.

Management goals for VTS-S include a timber management program (forest inventory and management plan development is currently in progress), control of invasive exotic pest plants such as privet, and restoration of native cedar glade ecosystems where appropriate and compatible with the military mission, as well as the on-going goals of protecting waterways from impacts from training or construction activities, maintaining native communities and wildlife habitat, and ensuring the continued availability of a quality environment for military training.

If you have any questions or comments, please contact me at 615-313-0669 or [Laura.Lecher@tn.ngb.army.mil](mailto:Laura.Lecher@tn.ngb.army.mil). As I get the initial organization of this project in hand, I hope to set up a meeting of the different cooperators to discuss our plans and goals.

Sincerely,

Laura P. Lecher  
Natural Resources Manager  
Tennessee Military Department

Enclosure



MILITARY DEPARTMENT OF TENNESSEE  
OFFICE OF THE ADJUTANT GENERAL  
HOUSTON BARRACKS  
NASHVILLE  
37204-1502

June 2, 2006

Tennessee Wildlife Resources Agency  
Ellington Agricultural Center  
P.O. Box 41489  
Nashville, Tennessee 37204

Dear Sir:

The Tennessee Military Department is beginning the process of revising and updating the Integrated Natural Resources Management Plan (INRMP) for the Tennessee Army National Guard (TNARNG) Volunteer Training Site – Smyrna (VTS-S) in Rutherford County, Tennessee. Army Regulation and the Sikes Act require the TNARNG to develop an INRMP for each of its training site and subject them to a complete revision every five years. The original VTS-S INRMP covered the period 2002-2006. This second edition will cover 2007-2011, and we hope to have a completed document by October 2006.

I am contacting you to inform you of this endeavor and request your agency's participation in the planning process. The USFWS and the Tennessee Wildlife Resources Agency are important cooperators in our task to appropriately manage TNARNG lands and are required signatories to the plan. I would appreciate any insight or information you can provide during the development of the plan.

VTS-S is located next to the Smyrna/Rutherford County Regional Airport in Smyrna, about 22 miles southeast of Nashville, TN. The training site occupies 858 acres on the shores of Stewart Creek and J. Percy Priest Lake. The enclosed map shows the full bounds of the training site. The land is licensed from the Army Corps of Engineers. Natural resources on VTS-S include redcedar forest on the uplands, bottomland hardwood forest along the waterways, and areas of maintained grassland. There are no known federally listed threatened or endangered species on the training site.

Management goals for VTS-S include a timber management program (forest inventory and management plan development is currently in progress), control of invasive exotic pest plants such as privet, and restoration of native cedar glade ecosystems where appropriate and compatible with the military mission, as well as the on-going goals of protecting waterways from impacts from training or construction activities, maintaining native communities and wildlife habitat, and ensuring the continued availability of a quality environment for military training.

If you have any questions or comments, please contact me at 615-313-0669 or [Laura.Lecher@tn.ngb.army.mil](mailto:Laura.Lecher@tn.ngb.army.mil). As I get the initial organization of this project in hand, I hope to set up a meeting of the different cooperators to discuss our plans and goals.

Sincerely,

Laura P. Lecher  
Natural Resources Manager  
Tennessee Military Department

Enclosure



MILITARY DEPARTMENT OF TENNESSEE  
OFFICE OF THE ADJUTANT GENERAL  
HOUSTON BARRACKS  
NASHVILLE  
37204-1502

January 14, 2008

U.S. Fish and Wildlife Service  
Tennessee Field Office  
ATTN: Lee Barclay  
446 Neal Street  
Cookeville, TN 38501

Dear Sir:

You were informed in June 2006 of the intent of the Tennessee Military Department to revise and update the Integrated Natural Resources Management Plan (INRMP) for the Tennessee Army National Guard (TNARNG) Volunteer Training Site – Smyrna (VTS-S) in Rutherford County, Tennessee, in accordance with Army Regulation and the Sikes Act.

In accordance with National Guard Bureau guidance, this letter is to alert you that the draft document is nearly complete. You should receive a copy of the complete first draft for you review in March 2008. If you wish to receive only an electronic copy of the document, please let me know. Otherwise, we will send you both an electronic copy and a paper copy for review.

Once we have received comments and suggestions on this preliminary draft, they will be incorporated into a second draft. NEPA documentation will be prepared at that time. The second draft and NEPA documents will be sent out for your review and for public review.

We apologize for the length of time it has taken us to prepare this document. I appreciate your support in this endeavor and look forward to hearing your suggestions for improving the INRMP. If you have any questions regarding this document, please contact me at 731-783-3975 or [Laura.Lecher@ng.army.mil](mailto:Laura.Lecher@ng.army.mil). My address is Ms. Laura Lecher, Tennessee Army National Guard, JFHQ-TN-ENV, 3041 Sidco Drive, Nashville, Tennessee 37204.

Sincerely,

Laura P. Lecher  
Natural Resources Manager  
Tennessee Military Department



MILITARY DEPARTMENT OF TENNESSEE  
OFFICE OF THE ADJUTANT GENERAL  
HOUSTON BARRACKS  
NASHVILLE  
37204-1502

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Sincerely,

Laura P. Lecher  
Natural Resources Manager  
Tennessee Military Department





MILITARY DEPARTMENT OF TENNESSEE  
OFFICE OF THE ADJUTANT GENERAL  
HOUSTON BARRACKS  
NASHVILLE  
37204-1502

June 2, 2006

U.S. Fish and Wildlife Service  
Tennessee Field Office  
446 Neal Street  
Cookeville, Tennessee 38501

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impacts from training or construction activities, maintaining native communities and wildlife habitat, and ensuring the continued availability of a quality environment for military training.

If you have any questions or comments, please contact me at 615-313-0669 or [Laura.Lecher@tn.ngb.army.mil](mailto:Laura.Lecher@tn.ngb.army.mil). As I get the initial organization of this project in hand, I hope to set up a meeting of the different cooperators to discuss our plans and goals.

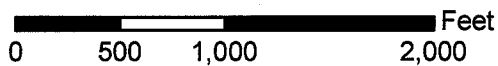
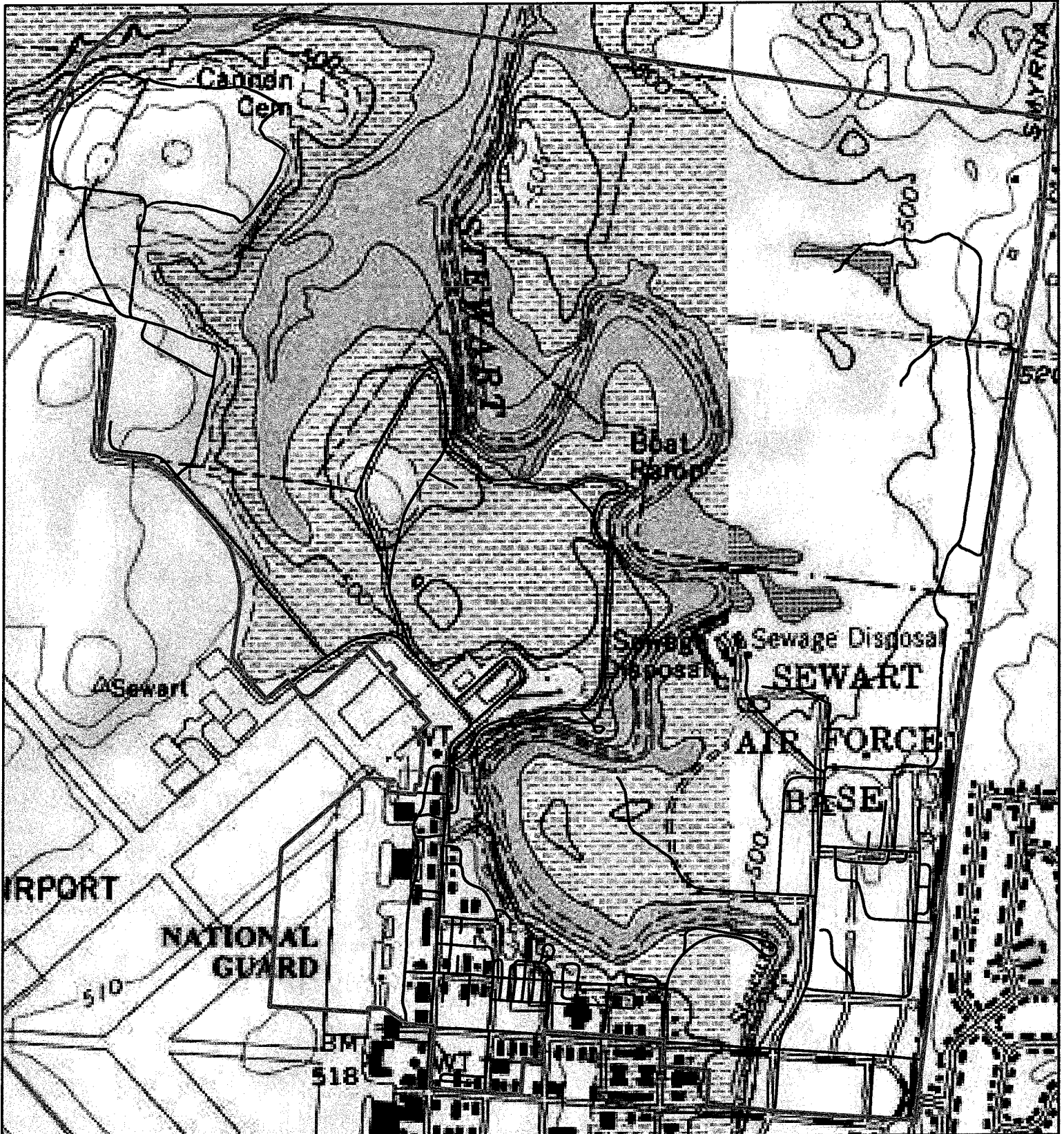
Sincerely,

A handwritten signature in cursive script that reads "Laura P. Lecher".

Laura P. Lecher  
Natural Resources Manager  
Tennessee Military Department

Enclosure

# VTS SMYRNA



LEGEND	
	Installation Boundary
	Road



# United States Department of the Interior

FISH AND WILDLIFE SERVICE  
446 Neal Street  
Cookeville, TN 38501

July 10, 2006

Ms. Laura P. Lecher  
Natural Resources Manager  
Tennessee Military Department  
Office of the Adjutant General  
Houston Barracks  
Nashville, Tennessee 37204-1502

Re: FWS #06-FA-0927

Dear Ms. Lecher:

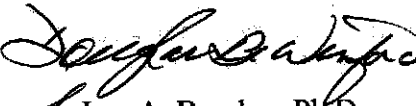
Thank you for your letter and enclosure of June 2, 2006, concerning the proposed revision and updating of the Integrated Natural Resources Management Plan for the Tennessee National Guard Volunteer Training Site-Smyrna (VTS-S) in Rutherford County, Tennessee. Fish and Wildlife Service biologists have reviewed the information submitted and we offer the following comments.

We currently have no records for federally listed or proposed endangered or threatened species on the VTS-S. The federally endangered Tennessee purple coneflower (*Echinacea tennesseensis*) and leafy prairie clover (*Dalea foliosa*), however, are known to occur within three miles of the VTS-S. We therefore support the proposed management objective of restoring native cedar glade habitat where it is appropriate and compatible. Successful achievement of this objective will contribute toward the recovery of these two rare native plants.

We also support the objectives of controlling exotic invasive species, protecting the waterways, and maintaining native communities and wildlife habitat on the VTS-S. Biologists from my staff may be able to provide technical assistance in your efforts if you wish.

Thank you for the opportunity to comment. Your concern for the protection of fish and wildlife resources, and endangered and threatened species, is greatly appreciated. If you have any questions, or if we can be of further assistance, please contact Jim Widlak of my staff at 931/528-6481, ext. 202.

Sincerely,

  
for Lee A. Barclay, Ph.D.  
Field Supervisor



MILITARY DEPARTMENT OF TENNESSEE  
OFFICE OF THE ADJUTANT GENERAL  
HOUSTON BARRACKS  
NASHVILLE  
37204-1502

June 2, 2006

Tennessee Wildlife Resources Agency  
Ellington Agricultural Center  
P.O. Box 41489  
Nashville, Tennessee 37204

Dear Sir:

The Tennessee Military Department is beginning the process of revising and updating the Integrated Natural Resources Management Plan (INRMP) for the Tennessee Army National Guard (TNARNG) Volunteer Training Site – Smyrna (VTS-S) in Rutherford County, Tennessee. Army Regulation and the Sikes Act require the TNARNG to develop an INRMP for each of its training site and subject them to a complete revision every five years. The original VTS-S INRMP covered the period 2002-2006. This second edition will cover 2007-2011, and we hope to have a completed document by October 2006.

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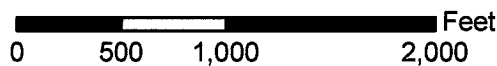
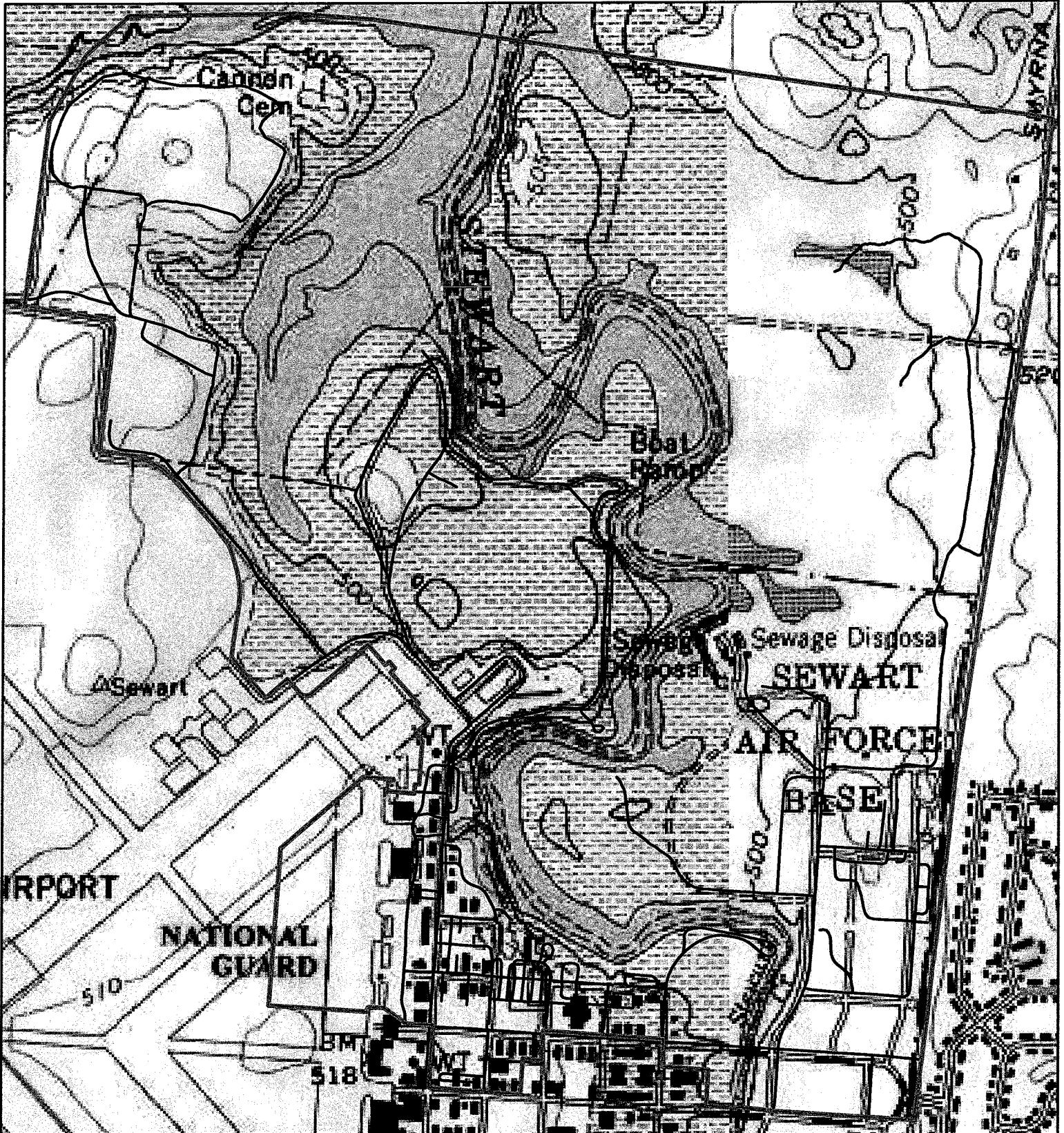
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Laura P. Lecher  
Natural Resources Manager  
Tennessee Military Department

Enclosure

# VTS SMYRNA



**LEGEND**

-  Installation Boundary
-  Road



MILITARY DEPARTMENT OF TENNESSEE  
OFFICE OF THE ADJUTANT GENERAL  
HOUSTON BARRACKS  
NASHVILLE  
37204-1502

January 11, 2008

U.S. Fish and Wildlife Service  
Tennessee Field Office  
ATTN: Lee Barclay  
446 Neal Street  
Cookeville, TN 38501

Dear Mr. Barclay:

You were informed in June 2006 of the intent of the Tennessee Military Department to revise and update the Integrated Natural Resources Management Plan (INRMP) for the Tennessee Army National Guard (TNARNG) Volunteer Training Site – Smyrna (VTS-S) in Rutherford County, Tennessee, in accordance with Army Regulation and the Sikes Act.

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We apologize for the length of time it has taken us to prepare this document. I appreciate your support in this endeavor and look forward to hearing your suggestions for improving the INRMP. If you have any questions regarding this document, please contact me at 731-783-3975 or [Laura.Lecher@state.tn.us](mailto:Laura.Lecher@state.tn.us). Address correspondence to my attention at Tennessee Army National Guard, JFHQ-TN-ENV, 3041 Sidco Drive, Nashville, Tennessee 37204.

Sincerely,

Laura P. Lecher  
Natural Resources Manager  
Tennessee Military Department





MILITARY DEPARTMENT OF TENNESSEE  
OFFICE OF THE ADJUTANT GENERAL  
HOUSTON BARRACKS  
NASHVILLE  
37204-1502

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Ellington Agricultural Center  
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Sincerely,

Laura P. Lecher  
Natural Resources Manager  
Tennessee Military Department



MILITARY DEPARTMENT OF TENNESSEE  
OFFICE OF THE ADJUTANT GENERAL  
HOUSTON BARRACKS  
NASHVILLE  
37204-1502

June 25, 2009

U.S. Fish and Wildlife Service  
Tennessee Field Office  
ATTN: Lee Barclay  
446 Neal Street  
Cookeville, TN 38501

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We had intended to have the first draft delivered to you in mid-2008; however, we fell significantly behind schedule. At this time, we anticipate delivering a draft for your review in August 2009. If you wish to receive only an electronic copy of the document, please let me know. Otherwise, we will send you both an electronic copy and a paper copy for review.

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Sincerely,

Laura P. Lecher  
Natural Resources Manager  
Tennessee Military Department



MILITARY DEPARTMENT OF TENNESSEE  
OFFICE OF THE ADJUTANT GENERAL  
HOUSTON BARRACKS  
NASHVILLE  
37204-1502

June 25, 2009

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Ellington Agricultural Center  
P.O. Box 41489  
Nashville, Tennessee 37204

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Sincerely,

Laura P. Lecher  
Natural Resources Manager  
Tennessee Military Department



MILITARY DEPARTMENT OF TENNESSEE  
OFFICE OF THE ADJUTANT GENERAL  
HOUSTON BARRACKS  
NASHVILLE  
37204-1502

1 October 2009

U.S. Fish and Wildlife Service  
Tennessee Field Office  
ATTN: James Widlak  
446 Neal Street  
Cookeville, TN 38501

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Enclosed is the first draft of the revised INRMP and associated Environmental Assessment for your review and comment. The overall management goals have changed relatively little from the initial INRMP implemented for 2001-2005, but plans for forest management and wildland fire management have been added, and programs and projects have been updated and expanded. The format and structure of the plan have also been modified.

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Sincerely,

Carson Chessor  
Environmental Program Manager  
Tennessee Military Department



# United States Department of the Interior

FISH AND WILDLIFE SERVICE

446 Neal Street  
Cookeville, TN 38501

November 20, 2009

Ms. Laura Lecher  
Natural Resources Manager  
Tennessee Army National Guard  
JFHQ-TN-ENV  
3041 Sidco Drive  
Nashville, Tennessee 37204-1502

Re: FWS #10-CPA-0023

Dear Ms. Lecher:

Thank you for your letter and enclosure of October 1, 2009, transmitting a draft Integrated Natural Resources Management Plan for the Tennessee Army National Guard Volunteer Training Site in Smyrna, Rutherford County, Tennessee. Fish and Wildlife Service biologists have reviewed the document and we offer the following comments.

The Integrated Natural Resources Management Plan contains descriptions of wetland resources and fish and wildlife resources present on the facility. It also describes management activities that will be implemented on the facility to maintain and enhance habitat for fish and wildlife species. Although no federally listed or proposed species have been found on the facility, the activities described in the document to manage aquatic and terrestrial habitats will protect potential endangered and threatened species habitats on the facility.

Thank you for the opportunity to comment. If you have any questions, please contact Jim Widlak of my staff at 931/528-6481, ext. 202.

Sincerely,

Mary E. Jennings  
Field Supervisor



MILITARY DEPARTMENT OF TENNESSEE  
OFFICE OF THE ADJUTANT GENERAL  
HOUSTON BARRACKS  
NASHVILLE  
37204-1502

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Sincerely,

Carson Chessor  
Environmental Program Manager  
Tennessee Military Department



MILITARY DEPARTMENT OF TENNESSEE  
ENVIRONMENTAL OFFICE AGTN-CFMO-EN  
HOUSTON BARRACKS  
PO BOX 41502  
NASHVILLE, TENNESSEE 37204-1502

October 28, 2009

Mr. E. Patrick McIntyre, Jr.  
Executive Director  
Tennessee Historical Commission  
2941 Lebanon Road  
Nashville, TN 37243-0442

Dear Mr. McIntyre:

In compliance with Section 106 of the National Historic Preservation Act, codified at 36 CFR 800 (Federal Register, December 12, 2000, 776980-77739), the Tennessee Army National Guard (TNARNG) requests your review of the attached submission.

Enclosed is the initial Draft of the revised Integrated Natural Resources Management Plan (INRMP) for the TNARNG Volunteer Training Site-Smyrna (VTS-S), Rutherford County, Tennessee. This is a full revision of the original INRMP, dated 2002, for this training site, with additional significant information on forest management activities, wild land fire management, and invasive species control. In addition, an Environmental Assessment (Appendix A) was prepared in accordance with the National Environmental Policy Act (NEPA) for the proposed action of implementing the revised INRMP.

After review of this document, please advise if you believe the implementation of this plan has the potential to cause any significant impact on historic structures or archaeological resources. Your comments would be appreciated no later than January 29, 2010.

Correspondence should be addressed to Ms. Laura Lecher, TNARNG, JFHQ-TN-ENV, 3041 Sidco Drive, Nashville, TN 37204-1502; or phone Laura at (731) 783-3975 or email at [Laura.Lecher@tn.gov](mailto:Laura.Lecher@tn.gov).

Sincerely,

Mike Stokes  
Cultural Resources Manager  
Tennessee Army National Guard

Enclosure



**TENNESSEE HISTORICAL COMMISSION**  
DEPARTMENT OF ENVIRONMENT AND CONSERVATION  
2941 LEBANON ROAD  
NASHVILLE, TN 37243-0442  
(615) 532-1550

November 16, 2009

Mr. Mike Stokes  
Military Department of Tennessee  
Environmental Office AGTN-CFMO-EN  
Houston Barracks  
Post Office Box 41502  
Nashville, Tennessee 37204-1502

RE: DOD, NATURAL RESOURCES MGMT PLAN/SMYRNA, SMYRNA,  
RUTHERFORD COUNTY

Dear Mr. Stokes:

At your request, our office has reviewed the above-referenced Integrated Natural Resources Management Plan in accordance with regulations codified at 36 CFR 800 (Federal Register, December 12, 2000, 77698-77739). We find that the plan includes adequate provisions for meeting the Tennessee Army National Guard's responsibilities under Section 106 of the National Historic Preservation Act.

If project plans are changed or archaeological remains are discovered during facility activities, please contact this office to determine what further action, if any, will be necessary to comply with Section 106 of the National Historic Preservation Act.

Your continued cooperation is appreciated.

Sincerely,

E. Patrick McIntyre, Jr.  
Executive Director and  
State Historic Preservation Officer

EPM/jmb





MILITARY DEPARTMENT OF TENNESSEE  
OFFICE OF THE ADJUTANT GENERAL  
HOUSTON BARRACKS  
NASHVILLE  
37204-1502

1 October 2009

MEMORANDUM FOR Lisa Delmonico, Natural Resources Program Manager (East), NGB-ARE-C, 111 South George Mason Drive, Arlington, VA 22204-1382.

SUBJECT: Review of Draft Integrated Natural Resources Management Plan, Revised, and Environmental Assessment for the Volunteer Training Site – Smyrna

1. The Tennessee Army National Guard (TNARNG) has developed a revised Integrated Natural Resources Management Plan (INRMP) for its Volunteer Training Site – Smyrna, located in Rutherford County, Tennessee, to guide environmental management for the 2010-2014 period. The INRMP was developed in collaboration with the U.S. Fish and Wildlife Service field office and the Tennessee Wildlife Resources Agency. The first draft is currently in review with both offices.
2. Due to the addition of forest management and wildland fire management plans, as well as more extensive invasive pest plant control measures, a new Environmental Assessment (EA) for the document was also developed. The EA is incorporated as Appendix A of the INRMP.
3. TNARNG hereby submits two hardcopies and one electronic copy of the Draft Integrated Natural Resources Management Plan, Revised, and the associated Environmental Assessment to NGB for review.
4. Point of Contact for this action is Laura Lecher, Natural Resources Manager, at 731-783-3975 or [laura.lecher@ng.army.mil](mailto:laura.lecher@ng.army.mil).

3 Encls.

Carson Chessor  
Environmental Program Manager  
Tennessee Military Department



**NATIONAL GUARD BUREAU**

111 SOUTH GEORGE MASON DRIVE  
ARLINGTON VA 22204-1382

ARNG-ILE

29 Mar 11

MEMORANDUM FOR TENNESSEE ARMY NATIONAL GUARD (TNARNG) (Attn: Ms Laura Lecher), CFMO-E, 3041 Sidco Dr, Nashville, TN 37214

SUBJECT: Army National Guard (ARNG) Directorate Review of the Integrated Natural Resource Management Plan (INRMP) for the Smyrna Training Site, Tennessee

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 of 1969, Jun 06.

c. Memorandum, NGB-ARE, 30 NOV 06, Interim Guidance for Revisions and Updates to Existing Integrated Natural Resource Management Plans.

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

2. The ARNG Directorate staff have reviewed the referenced draft INRMP. Attached are the errata sheets containing ARNG-ILE comments. Legal review was not required for an INRMP covered by a Categorical Exclusion (CX).

3. The POC for this action is CPT George Leverton, Training Lands Support Officer. He can be contacted at [george.leverton@us.army.mil](mailto:george.leverton@us.army.mil) or at 703-601-7973.

A handwritten signature in black ink that reads "Beth A Erickson".

BETH A ERICKSON  
Deputy, Environmental  
Programs Division

Encl  
Errata

Comment #	following location in the document:						Comment	Name of NGB Reviewer	Office of NGB Reviewer	Action Taken by State to Address the Comment
	Chapter	Section	Page	Paragraph	Line	Sentence				
1	1.3.1	2				NR MGR at NGB not responsible for staffing w/ regulators, state is, please re-write	L Delmonico	ARE-C	Rephrased to say "The natural resources manager at NGB-ARE is responsible for reviewing the INRMP and advising the Environmental Office before the <u>state</u> formally submits the plan for public review."	
1	1.4	4				State or Fed Needs to be stated here	L Delmonico	ARE-C	Do not understand comment -- both federal and state laws are compiled in Appendix E, as well as DoD and DA guidance. No change made.	
1	1.5	4				200-2 is gone, now only reference 200-1. Check rest of doc too please.	L Delmonico	ARE-C	200-2 was not superseded by 200-1 according to the new AR 200-1 summary page. However NEPA references changed to <b>32 CFR 651</b> .	
1		5				EA? Why? Couldn't you just rec off of old doc?	L Delmonico	ARE-C	NGB legal has determined no EA required. EA removed, references changed to REC off original INRMP EA.	
1	1.6	5	1			where are contributionons from services? Not in Appendix C as referenced here.	L Delmonico	ARE-C	Added concurrence letter from USFWS. No comments received to date from TN Wildlife Resources Agency.	
1	1.6	5	2			public review? Not yet, do after approved by NGB	L Delmonico	ARE-C	Will be done after NGB review and added to document as noted in text.	
		8				forestry funds: state gets 40% after USACE and installation get funds. 40% of remainder, not total.	L Delmonico	ARE-C	I don't understand comment: installation doesn't get funds since we do not run our own timber sales.	
	appendix e					rmv 200-2, 350-4	L Delmonico	ARE-C	Removed 350-4. Retained AR 200-2 (see response to #5 above).	
2	2.9	27				meet gis standards incl. sdsfie, fgdc, and provide all required data to NGB for CIP	L Delmonico	ARE-C	Section 2.9 rewritten with more detail.	
		45				all future surveys should result in useable GIS data	L Delmonico	ARE-C	See last paragraph on p.27.	
3	3.72	50				thinning - what did you do w/ timber value? All timber w/ value is fed property and should not be removed improperly.	L Delmonico	ARE-C	Project was done by training site without Environmental office awareness or approval. However, timber quality in areas thinned has been exceedingly low and sale would have brought minimal value.	
4		63				goals, objectives, and tasks should be nexted, not separate lists. Many goals are very specific	L Delmonico	ARE-C	The goals are overarching -- many objectives meet several goals. It seemed inefficient to list objectives repeatedly under each goal. Therefore goals are listed once. See table 4.3	
	general					objectives should be measurable. Tasks should have timeline estimates.	L Delmonico	ARE-C	Objectives/tasks reworked. See text and table 4.3 for timelines.	
	general					please pull out all completed projects, grey out text, or some how more clearly mark them. Also, how to distinguish tasks that are new here vs. old INRMP. Did you include all the tasks from old INRMP to show progress? This doc should show how you have been doing, what you are still working on, and new changes. It is hard to differentiate.	L Delmonico	ARE-C	2001 INRMP project progress provided in table 4.2. Reworked table 4.3 to show future projects; they are identified as new to this INRMP, carryover from old INRMP, or repeat project.	
4		68				Env. Doesn't do much erosion control (task 4) be clear this is ITAM. This can be included here, but seems the primary focus, and should not be the case.	L Delmonico	ARE-C	Other responsible parties identified in text and table 4.3.	
5		70				obj 5-2 task 3, here you could repair naturally occuring erosion to solve sedimentation problems, not training erosion problems or at least you must be very clear that this is not ARE bill, but ITAM project. I am glad you are aware and tracking, but this is not our lane anymore.	L Delmonico	ARE-C	Added statement identifying responsible party as maintenance on p.69.	

ERRATA INTEGRATED NATURAL RESOURCES MANAGEMENT PLAN VTS-SMYRNA, TENNESSEE

Comment #	following location in the document:						Comment	Name of NGB Reviewer	Office of NGB Reviewer	Action Taken by State to Address the Comment
	Chapter	Section	Page	Paragraph	Line	Sentence				
	general						Need to staff with USACE districts and demonstrate their support.	L Delmonico	ARE-C	Will be sent to USACE along with other agencies following NGB review.
		A-3					NGB sign Eas. Need Col Bennett's sig.	L Delmonico	ARE-C	Corrected signature page
		I					Consultation with tribes: need 2 Xs.	L Delmonico	ARE-C	Tribal consultation will be conducted following NGB review.
							Should cultural resources be included under Section 2.8? Are there any natural resources that are of importance to tribes, for example? That might require that you consult before you do anything to them? OR, is there any other way that cultural resources (ie consultation required prior to ground disturbance, etc.) will impact natural resources management under this plan?	K. Leahy	ARE-C	Section 2.8 deals specifically with environmental concerns which might impact the mission. There are no known natural resources that are significant to the tribes. Cultural resource concerns that might impact the mission are addressed in the ICRMP. No change made.
							Section 3.10 - I recommend you make an important statement in the beginning of this section that states clearly that NO work will occur that may have the potential to affect cultural resources and is defined as a federal undertaking as per 36CFR800 until the TNARNG has consulted with appropriate parties under the Section 106 process - including the TNSHPO and any federally recognized tribes that have an interest in the property. Completion of the INRMP in no way means that all consultation requirements associated with management actions described herein are completed.	K. Leahy	ARE-C	Section 3.10 is simply a description of cultural resources on site and site history. Paragraph 2 of Section 4.2.14 states that all INRMP activities will be coordinated through the TNARNG Cultural Resources Manager to ensure that all cultural requirements are met. No change made.
							In EA found in appendix - in cultural resources section 5.7 - This is not really the case as you have not yet consulted with the SHPO on a project by project basis, which would still be required prior to implementation of actions described within your INRMP. Please clarify that the consultation required as part of cultural resources compliance associated with actions described within the INRMP will occur prior to implementation. And, in the cases where the action will have an adverse effect on cultural resources, that a Memorandum of Agreement (as per regulation) will be completed.	K. Leahy	ARE-C	EA has been eliminated. In reference to the concern that consultation be done whenever needed, see response to #23 above.
							Did you consult with tribes regarding your INRMP? That should be included in the consultation letters in Appendix. Also, an MFR detailing tribal consultation should be included -- ie how you followed up, etc. when letters went out, if responses were received, and how the TNARNG intends to address any responses they do receive.	K. Leahy	ARE-C	Tribal consultation will be conducted following NGB review.
	3	9.2	55	1	1	1	"According to a non-exhaustive survey of mammals", Please define what this is?	Reichold	ARE-C	Rephrased to say "According to a baseline survey of mammals..." "Non-exhaustive" implied that there were probably mammals on site that were missed by the survey methods utilized. However, that is an unnecessary statement as the sentence discusses an animal that was found.
	Table A2.1 Wildfire Management Plan						I would remove this table. It dates the document and annual refresher training is needed.	Reichold	ARE-C	Removed



MILITARY DEPARTMENT OF TENNESSEE  
Office of The Adjutant General  
Houston Barracks  
P.O. Box 41502  
Nashville, Tennessee 37204-1502

26 October 2011

U.S. Fish and Wildlife Service  
Tennessee Field Office  
ATTN: James Widlak  
446 Neal Street  
Cookeville, TN 38501

Dear Mr. Widlak:

In November 2009 your office reviewed the first draft of the revised Integrated Natural Resources Management Plan (INRMP) for the Tennessee Army National Guard (TNARNG) Volunteer Training Site – Smyrna (VTS-S) in Rutherford County, Tennessee. We appreciate your letter of support for the plan.

The final draft of the revised INRMP for VTS-S is now available. There have been no substantive changes since the first draft; although the projects table in chapter four has been modified. In addition, the National Guard Bureau legal office has determined that the Environmental Assessment (EA) from the original 2001 INRMP is sufficient for this document, and so the draft EA has been removed and replaced with a Record of Environmental Consideration tiering off that earlier EA.

The final draft of the revised INRMP for VTS-S can be accessed at <http://tnmilitary.org/Environmental.html>. If you have problems downloading the document, a cd version can be mailed to you. A print copy of the document is also available for review at the Smyrna Public Library, 400 Enon Springs Road West, Smyrna, TN 37167.

I request that your agency review this plan according to Section 670a(a)(2) of the Sikes Act. Please provide written comments on this Final Draft no later than 6 January 2012. This document will also be going out for public review during this time in accordance with the Sikes Act.

If you support this plan and have no alterations or additions to request, please furnish this office with a letter from your Field Supervisor stating your agency's concurrence with the document.

Correspondence should be addressed to Ms. Laura Lecher, TNARNG, JFHQ-TN-ENV, 3041 Sidco Drive, Nashville, TN 37204-1502. If you have any questions, please contact me at (731)222-5321 or email at [Laura.Lecher@tn.gov](mailto:Laura.Lecher@tn.gov).

Sincerely,

Laura P. Lecher  
Natural Resources Manager  
Tennessee Military Department



MILITARY DEPARTMENT OF TENNESSEE  
Office of The Adjutant General  
Houston Barracks  
P.O. Box 41502  
Nashville, Tennessee 37204-1502

26 October 2011

Ed Carter, Executive Director  
Tennessee Wildlife Resources Agency  
Ellington Agricultural Center  
P.O. Box 41489  
Nashville, TN 37204

Dear Mr. Carter:

In November 2009 your office was given the opportunity to review the first draft of the revised Integrated Natural Resources Management Plan (INRMP) for the Tennessee Army National Guard (TNARNG) Volunteer Training Site – Smyrna (VTS-S) in Rutherford County, Tennessee. The final draft of this document is now available.

There have been no substantive changes since the first draft; although the projects table in chapter four has been modified. In addition, the National Guard Bureau legal office has determined that the Environmental Assessment (EA) from the original 2001 INRMP is sufficient for this document, and so the draft EA has been removed and replaced with a Record of Environmental Consideration tiering off that earlier EA.

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If you support this plan and have no alterations or additions to request, please furnish this office with a letter stating your agency's concurrence with the document.

Correspondence should be addressed to Ms. Laura Lecher, TNARNG, JFHQ-TN-ENV, 3041 Sidco Drive, Nashville, TN 37204-1502. If you have any questions, please contact me at (731)222-5321 or email at [Laura.Lecher@tn.gov](mailto:Laura.Lecher@tn.gov).

Sincerely,

Laura P. Lecher  
Natural Resources Manager  
Tennessee Military Department





MILITARY DEPARTMENT OF TENNESSEE  
Office of The Adjutant General  
Houston Barracks  
P.O. Box 41502  
Nashville, Tennessee 37204-1502

26 October 2011

E. Patrick McIntyre, Jr.  
Executive Director  
Tennessee Historical Commission  
2941 Lebanon Road  
Nashville, TN 37243-0442

Dear Mr. McIntyre:

In compliance with Section 106 of the National Historic Preservation Act, codified as 36 CFR 800 (Federal Register, December 12, 2000, 776980-77739), the Tennessee Army National Guard (TNARNG) requests your review of the attached submission.

Enclosed is the Final Draft of the revised Integrated Natural Resources Management Plan (INRMP) for the TNARNG Volunteer Training Site – Smyrna (VTS-S) in Rutherford County, Tennessee. This is an update and revision of the original INRMP, dated 2001, for this training site, with added information on forest management activities, wildland fire management, and invasive species control.

You reviewed an earlier draft of this document in October 2009. There have been no substantive changes since that draft, although the projects table in chapter four has been modified.

After review of this document, please advise if you believe the implementation of this plan has the potential to cause any significant impact on historic structures or archaeological resources. Your comments would be appreciated no later than 6 January 2012.

Correspondence should be addressed to Ms. Laura Lecher, TNARNG, JFHQ-TN-ENV, 3041 Sidco Drive, Nashville, TN 37204-1502; or phone Laura at (731)222-5321 or email at [Laura.Lecher@tn.gov](mailto:Laura.Lecher@tn.gov).

Sincerely,

Carson Chessor  
Environmental Program Manager  
Tennessee Military Department

Agencies contacted regarding the final review of the draft INRMP for VTS-Smyrna:

USFWS                    Lee Barclay, Field Supervisor  
US Fish and Wildlife Service, Cookeville Field Office  
446 Neal Street  
Cookeville, TN 38501

TWRA                    Ed Carter, Executive Director  
Tennessee Wildlife Resources Agency  
Ellington Agricultural Center  
PO Box 41489  
Nashville, TN 37204

SHPO                    E. Patrick McIntyre, Jr.  
Tennessee Historical Commission  
2941 Lebanon Road  
Nashville, TN 37243-0442



USACE                    US Army Corps of Engineers  
Nashville District  
PO Box 1070  
Nashville, TN 37202-1070

US Army Corps of Engineers  
Mobile District  
PO Box 2288  
Mobile, AL 36628-0001

EPA                      US Environmental Protection Agency, Region 4  
Sam Nunn Atlanta Federal Center  
61 Forsyth Street, SW  
Atlanta, GA 30303

USFS                    US Forest Service, Southern Region  
1720 Peachtree Road, NW  
Atlanta, GA 30309

NRCS                    Michael Hart, Area Conservationist  
Natural Resources Conservation Service  
315 John R. Rice Boulevard, Suite 175  
Murfreesboro, TN 37129

TDEC  
Barry Brawley  
Nashville Field Office  
TN Department of Environment and Conservation  
711 R.S. Gass Blvd.  
Nashville, TN 37216

TN Department of Environment and Conservation  
Resource Management Division  
7<sup>th</sup> Floor, L&C Annex  
401 Church Street  
Nashville, TN 37243

Paul E. Davis, Director  
Division of Water Pollution Control  
6<sup>th</sup> Floor, L&C Annex  
401 Church Street  
Nashville, TN 37243

TDF  
Steven Scott, State Forester  
TN Division of Forestry  
PO Box 40627 Melrose Station  
Nashville, TN 37204

Airport  
Lois Vallance, Airport Manager  
Smyrna/Rutherford County Airport Authority  
278 Doug Warpoole Rd.  
Smyrna, TN 37167

Smyrna water  
Greg Upham  
Storm Water Management  
Town of Smyrna  
315 South Lowry Street  
Smyrna, TN 37167-3416



Tribes:

Henryetta Ellis, THPO  
Absentee Shawnee Tribe of Oklahoma  
2025 S. Gordon Cooper  
Shawnee, OK 74801

Bryant Celestine, Historic Preservation Officer  
Alabama-Coushatta Tribe of Texas  
571 State Park Road 56  
Livingston, Texas 77351

Augustine Asbury, 2<sup>nd</sup> Chief/Cultural Preservation Specialist  
Alabama-Quassarte Tribal Town  
PO Box 187  
Wetumka, OK 74883

Honorable Chad Smith, Principal Chief  
Cherokee Nation  
17675 S. Muskogee  
Tahlequah, OK 74465

Virginia Nail, Historic Preservation Officer  
Chickasaw Nation  
PO Box 1548  
Ada, OK 74821

Terry Cole, THPO  
Choctaw Nation of Oklahoma  
PO Box 1210  
Durant, OK 74702-1210

Leland Thompson, THPO  
Coushatta Tribe of Louisiana  
PO Box 818  
Elton, TA 70532

Russell Townsend, THPO  
Eastern Band of Cherokee Indians  
PO Box 455  
Cherokee, NC 28719

Ms. Robin DuShane, Cultural Preservation Director  
Eastern Shawnee Tribe of Oklahoma  
12705 S. 705 Road  
Wyandotte, OK 74370

Ms. Dana Masters, THPO  
Jena Band of Choctaw  
PO Box 14  
Jena, LA 71342

Mr. Marsey Harjo, THPO  
Kialegee Tribal Town  
PO Box 332  
Wetumka, OK 74883

Ted Isham, THPO  
Muscogee (Creek) Nation  
PO Box 580  
Ocmulgee, OK 74447

Robert Thrower, THPO  
Poarch Band of Creek Indians  
5811 Jack Springs Road  
Atmore, AL 36502-5025

Jean Ann Lambert, THPO  
Quapaw Tribe of Oklahoma  
PO Box 765  
Quapaw, OK 74363-0765

Natalie Deere, THPO  
Seminole Nation of Oklahoma  
PO Box 1498  
Wewoka, OK 74884

Willard S. Steele, THPO  
Seminole Tribe of Florida  
30290 Josie Billie Highway, PMB 1004  
Clewiston, FL 33440

Charles Coleman, NAGPRA Representative  
Thophlocco Tribal Town  
Rt. 1, Box 190-A  
Weleetka, OK 74880

Earl J. Barbry, Jr., THPO  
Tunica-Biloxi Tribe of Louisiana  
PO Box 1589  
Marksville, LA 71351

Lisa C. LaRue, Acting THPO  
United Keetoowah Band of Cherokee Indians in Oklahoma  
2450 S. Muskogee Ave.  
Tahlequah, OK 74464



MILITARY DEPARTMENT OF TENNESSEE  
Office of The Adjutant General  
Houston Barracks  
P.O. Box 41502  
Nashville, Tennessee 37204-1502

26 October 2011

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Dear Sir:

This letter is to notify you of the availability for review of the final draft of the revised Integrated Natural Resources Management Plan (INRMP) for the Tennessee Army National Guard (TNARNG) Volunteer Training Site – Smyrna (VTS-S) in Rutherford County, Tennessee. This document is an update and revision of the original 1001 INRMP for the training site, with added information on forest management activities, wildland fire management, and invasive species control.

The Volunteer Training Site – Smyrna is located next to the Smyrna/Rutherford County Regional Airport in Smyrna, about 22 miles southeast of Nashville, TN. The 858 acre site is devoted to the preparation of National Guardsmen for their military training, including maneuver, range operations, equipment use, and other combat readiness training.

The training site straddles Stewart Creek and a portion of J. Percy Priest Lake. Natural resources on the VTS-S include redcedar forest on the uplands, bottomland hardwood forest along the waterways, and areas of maintained grassland. There are no known federally listed threatened or endangered species on the training site. The INRMP describes the baseline conditions of natural resources on the VTS-S and describes management programs and guidance allowing for the successful completion of the military mission while providing for the conservation of natural resources, preservation of rare and unique resources, and long-term sustainability of the training site.

The final draft of the revised INRMP for VTS-S can be accessed at <http://tnmilitary.org/Environmental.html>. If you have problems downloading the document, a cd version can be mailed to you. A print copy of the document is also available for review at the Smyrna Public Library, 400 Enon Springs Road West, Smyrna, TN 37167.

Please provide written comments on this Final Draft no later than 6 January 2012. This document will also be going out for public review during this time in accordance with the Sikes Act.

Correspondence should be addressed to Ms. Laura Lecher, TNARNG, JFHQ-TN-ENV, 3041 Sidco Drive, Nashville, TN 37204-1502. If you have any questions, please contact me at (731)222-5321 or email at [Laura.Lecher@tn.gov](mailto:Laura.Lecher@tn.gov).

Sincerely,

Laura P. Lecher  
Natural Resources Manager  
Tennessee Military Department



MILITARY DEPARTMENT OF TENNESSEE  
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26 October 2011

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Sincerely,

Laura P. Lecher  
Natural Resources Manager  
Tennessee Military Department



## **APPENDIX D**

### **Public Comment**



## **APPENDIX E**

### **Annotated Summary of Key Legislation Related to Natural Resources Management**

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### United States Code

<i>Sikes Act, as amended; 16 U.S.C. 670(a) et seq.</i>	Authorizes military installations to carry out programs for the conservation and rehabilitation of natural resources. Requires preparation and implementation of Integrated Natural Resources Management Plans for all military installations in U.S. except those lacking significant natural resources.
<i>National Environmental Policy Act of 1969 (NEPA), as amended; P.L.91-190, 42 U.S.C. 4321 et seq.</i>	Requires Federal agencies to utilize a systematic approach when assessing environmental impacts of government activities. NEPA proposes an interdisciplinary approach in a decision-making process designed to identify unacceptable or unnecessary impacts to the environment.
<i>Leases: Non-excess Property of Military Departments, 10 U.S.C. 2667, as amended</i>	Authorizes DoD to lease to commercial enterprises Federal land that is not currently needed for Public use. Covers agricultural outleasing programs.
<i>Federal Land Use Policy and Management Act, 43 U.S.C. 1701-1782</i>	Requires management of public lands to protect the quality of scientific, scenic, historical, ecological, environmental, and archaeological resources and values; as well as to preserve and protect certain lands in their natural condition for fish and wildlife habitat. This act also requires consideration of commodity production such as timbering.
<i>Clean Air Act, 42 U.S.C. 7401-7671q, July 14, 1955, as amended</i>	This Act, as amended, is known as the Clean Air Act of 1990. The amendments made in 1990 established the core of the clean air program. The primary objective is to establish Federal standards for air pollutants. It is designed to improve air quality in areas of the country which do not meet Federal standards and to prevent significant deterioration in areas where air quality exceeds those standards.
<i>Federal Water Pollution Control Act (Clean Water Act), 33 U.S.C. 1251-1387</i>	The Clean Water Act is a comprehensive statute aimed at restoring and maintaining the chemical, physical, and biological integrity of the nation's waters. Primary authority for the implementation and enforcement rests with the U.S. Environmental Protection Agency (USEPA).
<i>Migratory Bird Treaty Act 16 U.S.C. 703-712</i>	The Migratory Bird Treaty Act implements various treaties and for the protection of migratory birds. Under the Act, taking, killing, or possessing migratory birds is unlawful.
<i>Endangered Species Act of 1973, as amended; P.L. 93-205, 16 U.S.C.1531 et seq.</i>	Protects threatened, endangered, and candidate species of fish, wildlife, and plants and their designated critical habitats. Under this law, no Federal action is allowed to jeopardize the continued existence of an endangered or threatened species. The Endangered Species Act also requires consultation with the USFWS and the National Marine Fisheries Service and the preparation of a biological assessment when such species are present in an area that is affected by government activities.
<i>National Historic Preservation Act; 16 U.S.C. 470 et seq.</i>	Requires Federal agencies to take account of the effect of any federally assisted undertaking or licensing on any district, site, building, structure, or object that is included in or eligible for inclusion in the National Register of Historic Places (NRHP). Provides for the nomination, identification (through listing on the National Register), and protection of historical and cultural properties of significance.
<i>Federal Noxious Weed Act of 1974; 7 U.S.C. 2801-2814</i>	The Act provides for the control and management of non-indigenous weeds that injure or have the potential to injure the interests of agriculture and commerce, wildlife resources, or the public health.
<i>Sale of certain interests in land; logs; 10 U.S.C. 2665</i>	Authorizes sale of forest products and reimbursement of the costs of management of forest resources.

<i>Federal Insecticide, Fungicide, and Rodenticide Act, as amended (FIFRA);</i>	Controls pesticide distribution, sale, and use. Requires licensing/certification for commercial applications and for sales of pesticides.
<i>Archaeological and Historical Preservation Act of 1974; 16 U.S.C. 469 et seq.</i>	Provides for the preservation of historical and archaeological data which might otherwise be lost or destroyed as a result of alteration of the terrain caused by any Federal construction project or federally licensed activity or program.
<i>Archaeological Resources Protection Act of 1979; (16 U.S.C. 470 et seq.) 32 CFR 22 and 229</i>	Protects archeological resources and sites on public lands and Indian lands.

### Federal Public Laws and Executive Orders

<i>National Defense Authorization Act of 1989, Public Law (P.L.) 101-189; Volunteer Partnership Cost-Share Program</i>	Amends two acts and establishes volunteer and partnership programs for natural and cultural resources management on DoD lands.
<i>Defense Appropriations Act of 1991, P.L. 101-511; Legacy Resource Management Program</i>	Establishes a program for the stewardship of biological, geophysical, cultural, and historic resources on DoD lands.
<i>Executive Order (EO) 11988, Floodplain Management</i>	Provides direction regarding actions of Federal agencies in floodplains, and requires permits from state and Federal review agencies for any construction within a 100-year floodplain.
<i>EO 11990, Protection of Wetlands</i>	Requires Federal agencies to avoid undertaking or providing assistance for new construction located in wetlands unless there is no practicable alternative, and all practicable measures to minimize harm to wetlands has been implemented.
<i>EO 11514, Protection and Enhancement of Environmental Quality</i>	Federal agencies shall initiate measures needed to direct their policies, plans, and programs to meet national environmental goals. They shall monitor, evaluate, and control agency activities to protect and enhance the quality of the environment.
<i>EO 11593, Protection and Enhancement of the Cultural Environment</i>	All Federal agencies are required to locate, identify, and record all cultural and natural resources. Cultural resources include sites of archaeological, historical, or architectural significance. Natural resources include the presence of endangered species, critical habitat, and areas of special biological significance.
<i>EO 11990, Protection of Wetlands</i>	Each Agency shall take action to minimize the destruction, loss, or degradation of wetlands, and to preserve and enhance the natural and beneficial values of wetlands in carrying out the agency's responsibilities.
<i>EO 11987, Exotic Organisms</i>	Agencies shall restrict the introduction of exotic species into the natural ecosystems on lands and waters that they administer.
<i>EO 12088, Federal Compliance With Pollution Control Standards.</i>	This EO delegates responsibility to the head of each executive agency for ensuring that all necessary actions are taken for the prevention, control, and abatement of environmental pollution. This order gives the Environmental Protection Agency authority to conduct reviews and inspections to monitor Federal facility compliance with pollution control standards.
<i>EO 12898, Environmental Justice</i>	This EO requires certain Federal agencies, including the DoD, to the greatest extent practicable permitted by law, to make environmental justice part of their missions by identifying and addressing disproportionately high and adverse health or environmental effects on minority and low-income populations.



<i>EO 13112, Exotic and Invasive Species</i>	This EO strives to prevent the introduction of invasive species and provide for their control and to minimize the economic, ecological, and human health impacts that invasive species cause.
<i>EO 13045, Protection of Children from Environmental Health and Safety Risks</i>	This EO makes it a high priority to identify and assess environmental health and safety risks that may disproportionately affect children. It also directs agencies to ensure that policies, programs, activities, and standards address such risks if identified.
<i>EO 13007, Indian Sacred Sites</i>	Directs protection of Indian sacred sites Federal lands and guarantees access to and ceremonial use of Indian sacred sites on Federal lands by Indian religious practitioners.
<i>EO 13175, Consultation and Coordination with Indian Tribal Governments</i>	Establishes requirement of and process for Nation-to-Nation consultation with Indian tribal governments with regards to the development of Federal policies that have tribal implications.

### DoD Policy, Directives and Instructions

<i>DoD Directive 4700.4, Natural Resources Management Program</i>	Requires that the ARNG implement and maintain a balanced and integrated program for the management of natural resources.
<i>DoD Directive 4715.1, Environmental Security</i>	Establishes policy for protecting, preserving, and (when required) restoring and enhancing the quality of the environment. This directive also ensures that environmental factors are integrated into DoD decision-making processes that may impact the environment, and are given appropriate consideration along with other relevant factors.
<i>DoD Annotated Policy on Indian Tribes and Alaska Natives</i>	Establishes DoD American Indian and Alaska Native Policy for interacting and working with federally recognized American Indian and Alaska Native governments (hereinafter referred to as “tribes”). It defines: protected tribal resources, tribal rights, and Indian lands.
<i>DoDI 4715.03, Environmental Conservation Program</i>	Implements policy, assigns responsibility, and prescribes procedures under <i>DoD Directive 4715.1</i> for the integrated management of natural and cultural resources on property under DoD control.

### Army Instructions and Directives

<i>AR 200-1, Environmental Protection and Enhancement</i>	As of 28 August 2007, this document supersedes all previous iterations of AR 200-1, AR 200-3, AR 200-4, and AR 200-5. Provides policies, standards and procedures for the following resource areas: NEPA, Natural Resources Management, Cultural Resources Management, Natural Resource Damage Assessment (NRDA), Real Property Acquisition, Outgrant and Disposal Transactions, Environmental Agreements, Environmental Compliance Assessments, Environmental Quality Control Committee (EQCC), Army Environmental Training Program, Installation/State Environmental Training Plans, ITAM, and Pest Management Program
<i>AR 350-19, The Army Sustainable Range Program (superseded AR 210-21)</i>	Assigns responsibilities and provides policy and guidance for managing and operating U.S. Army ranges and training lands to support their long-term viability and utility to meet the National defense mission.
<i>HQDA INRMP Policy Memorandum (21 March 1997), Army Goals and Implementing Guidance for Natural Resources Planning Level Surveys (PLS) and Integrated Natural Resources Management Plan (INRMP)</i>	Provides guidance to ensure that natural resource conservation measures and Army activities on mission land are integrated and are consistent with Federal stewardship requirements.

### Tennessee State Code

<i>Tennessee Water Quality Control Act of 1977</i> ; TCA 69-3-101 et seq.	Establishes the Tennessee Water Quality Control Board to establish standards for various uses of the waters of the state.
<i>Tennessee Insecticide, Fungicide, and Rodenticide Act</i> ; TCA 43-8-101 et seq.	Controls pesticide distribution, sale, and use in Tennessee.
<i>Tennessee Hazardous Substances Act</i> ; TCA 68-131-101 et seq.	Defines, establishes regulations for the handling of, and sets penalties for the mishandling of hazardous substances in the state of Tennessee.
<i>Tennessee Air Quality Act</i> ; TCA 68-201-202 et seq.	Establishes an Air Pollution Control Board to create and maintain rules and regulations for the purpose of protecting Tennessee's air quality.
<i>Tennessee Safe Drinking Water Act of 1983</i> ; TCA 68-221-701 et seq.	Defines the duties and responsibilities of the Tennessee Water Quality Board and the Commissioner of the Tennessee Department of Environment and Conservation with regards to protection of the drinking water supply of the state of Tennessee. Also identifies prohibited acts and defines penalties and legal processes for prosecuting violations thereof.
Fish and Wildlife Regulations; TCS 70-4-101	Establishes rules and regulations for hunting, fishing, and protection of wildlife.
Nongame Species Regulations; TCA 70-8-104	Gives the executive director of the Tennessee Wildlife Resources Agency the responsibility for establishing regulations to protect non-game species.
<i>Tennessee Archaeological Statutes</i> ; TCA 11-6-101 et seq.	Establishes a state Division of Archaeology and defines its role in research on and protection of archaeological features, sites, and artifacts in the state of Tennessee.

## **APPENDIX F**

### **Animal and Plant Species found on VTS-Smyrna**

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## VERTEBRATE SPECIES

### BIRDS

<b>Order</b>	<b>Family</b>	<b>Common Name</b>	<b>Scientific Name</b>	<b>State Conservation Status</b>
<b>GAVIFORMES – loons and divers</b>				
	<b>Gaviidae (loons and divers)</b>	common loon	<i>Gavia immer</i>	none
<b>PODICIPEDIFORMES – GREBES</b>				
	<b>Podicipedidae (grebes)</b>	pie-billed grebe	<i>Podilymbus podiceps</i>	imperiled
<b>PELICANIFORMES –</b>				
	<b>Phalacrocoracidae (cormorants)</b>	double-crested cormorant	<i>Phalacrocorax auritus</i>	imperiled
<b>CICONIIFORMES – herons, storks, and allies</b>				
	<b>Ardeidae (herons, bitterns, and egrets)</b>	great egret	<i>Ardea alba</i>	imperiled
		great blue heron	<i>Ardea herodias</i>	apparently secure
		green heron	<i>Butorides virescens</i>	apparently secure
		black-crowned night heron	<i>Nycticorax nycticorax</i>	imperiled
<b>ANSERIFORMES – ducks, geese, and swans</b>				
	<b>Anatidae (ducks, geese, and swans)</b>	wood duck	<i>Aix sponsa</i>	secure
		northern pintail	<i>Anas acuta</i>	none
		northern shoveler	<i>Anas clypeata</i>	none
		green-winged teal	<i>Anas crecca</i>	none
		blue-winged teal	<i>Anas discors</i>	imperiled
		mallard	<i>Anas platyrhynchos</i>	secure
		gadwall	<i>Anas strepera</i>	none
		Canada goose	<i>Branta canadensis</i>	secure
		bufflehead	<i>Bucephala albeola</i>	none
		snow goose	<i>Chen caerulescens</i>	none
		hooded merganser	<i>Lophodytes cucullatus</i>	none
<b>CHARADRIIFORMES - shorebirds</b>				
	<b>Charadriidae (plovers)</b>	killdeer	<i>Charadrius vociferous</i>	secure
	<b>Scolopacidae (sandpipers and phalaropes)</b>	spotted sandpiper	<i>Actitis macluria</i>	imperiled
		western sandpiper	<i>Calidris mauri</i>	none
		pectoral sandpiper	<i>Calidris melanotos</i>	none
		least sandpiper	<i>Calidris minutilla</i>	none
		Wilson's snipe	<i>Gallinago delicate</i>	none
		hooded merganser	<i>Lophodytes cucullatus</i>	none
		American woodcock	<i>Scolopax minor</i>	apparently secure
		lesser yellowlegs	<i>Tringa flavipes</i>	none
		greater yellowlegs	<i>Tringa melanoleuca</i>	none
		solitary sandpiper	<i>Tringa solitaria</i>	none
	<b>Laridae (gulls, terns, and skimmer)</b>	ring-billed gull	<i>Larus delawarensis</i>	none
		Bonaparte's gull	<i>Larus philadelphia</i>	none
		Caspian tern	<i>Sterna caspia</i>	none
<b>FALCONIFORMES - diurnal birds of prey</b>				
	<b>Cathartidae (vultures)</b>	turkey vulture	<i>Cathartes aura</i>	secure

<b>Order</b>	<b>Family</b>	<b>Common Name</b>	<b>Scientific Name</b>	<b>State Conservation Status</b>
<b>FALCONIFORMES cont'd</b>				
		black vulture	<i>Coragyps atatus</i>	apparently secure
	<b>Accipitridae (hawks, kites, eagles, and falcons)</b>			
		Cooper's hawk	<i>Accipiter cooperii</i>	vulnerable
		sharp-shinned hawk	<i>Accipiter striatus</i>	vulnerable
		red-tailed hawk	<i>Buteo jamaicensis</i>	secure
		red-shouldered hawk	<i>Buteo lineatus</i>	apparently secure
		broad-winged hawk	<i>Buteo platypterus</i>	apparently secure
		osprey	<i>Pandion haliaetus</i>	vulnerable
	<b>Falconidae (falcons)</b>	American kestrel	<i>Falco sparverius</i>	secure
<b>GALLIFORMES - chicken-like birds</b>				
	<b>Phasianidae (quails, pheasants, and turkeys)</b>			
		northern bobwhite	<i>Colinus virginianus</i>	imperiled
		wild turkey	<i>Meleagris gallopavo</i>	secure
<b>GRUIFORMES – (coots, cranes, and rails)</b>				
	<b>Rallidae (rails, gallinules, and coots)</b>			
		sora	<i>Porzana carolina</i>	critically imperiled
		American coot	<i>Fulica Americana</i>	imperiled
<b>COLUMBIFORMES - doves and pigeons</b>				
	<b>Columbidae (doves and pigeons)</b>			
		rock pigeon	<i>Columba livia</i>	EXOTIC
		Eurasian collared dove	<i>Streptopelia decaocto</i>	EXOTIC
		mourning dove	<i>Zenaida macroura</i>	secure
<b>CUCULIFORMES - cuckoos and relatives</b>				
	<b>Cuculidae (cuckoos, roadrunners, et al.)</b>			
		yellow-billed cuckoo	<i>Coccyzus americanus</i>	apparently secure
<b>STRIGIFORMIS - owls</b>				
	<b>Strigidae (owls)</b>			
		great horned owl	<i>Bubo virginianus</i>	secure
		eastern screech owl	<i>Otus asio</i>	secure
		barred owl	<i>Strix varia</i>	secure
<b>CAPRIMULGIFORMES – nightbirds</b>				
	<b>Caprimulgidae (goatsuckers)</b>			
		common nighthawk	<i>Chordeiles minor</i>	apparently secure
<b>APODIFORMES – hummingbirds and swifts</b>				
	<b>Apodidae (swifts)</b>			
		chimney swift	<i>Chaetura pelagic</i>	secure
	<b>Trochilidae (hummingbirds)</b>			
		ruby-throated hummingbird	<i>Archilochus colubris</i>	secure
<b>CORACIIFORMES - kingfishers and allies</b>				
	<b>Alcedinidae (kingfishers)</b>			
		belted kingfisher	<i>Ceryle alcyon</i>	secure
<b>PICIFORMES - woodpeckers</b>				
	<b>Picidae (woodpeckers)</b>			
		northern flicker	<i>Colaptes auratus</i>	secure
		pileated woodpecker	<i>Dryocopus pileatus</i>	apparently secure
		red-bellied woodpecker	<i>Melanerpes carolinus</i>	secure
		downy woodpecker	<i>Picoides pubescens</i>	secure
		hairy woodpecker	<i>Picoides villosus</i>	apparently secure
		yellow-bellied sapsucker	<i>Sphyrapicus varius</i>	critically imperiled
<b>PASSERIFORMES – passerines</b>				
	<b>Tyrannidae (tyrant flycatchers)</b>			
		eastern wood-pewee	<i>Contopus virens</i>	secure

<b>Order</b>	<b>Family</b>	<b>Common Name</b>	<b>Scientific Name</b>	<b>State Conservation Status</b>	
<b>PASSERIFORMES cont'd</b>		Acadian flycatcher	<i>Emoidonax virescens</i>	secure	
		great crested flycatcher	<i>Myiarchus cinerascens</i>	secure	
		eastern phoebe	<i>Sayornis phoebe</i>	secure	
		eastern kingbird	<i>Tyrnnus tyrannus</i>	secure	
		<b>Hirundinidae (swallows)</b>			
			barn swallow	<i>Hirundo rustica</i>	secure
			purple martin	<i>Progne subis</i>	secure
			northern rough-winged swallow	<i>Stelgidopteryx serripennis</i>	secure
			tree swallow	<i>Tachycineta bicolor</i>	apparently secure
		<b>Corvidae (crows and jays)</b>			
			blue jay	<i>Cyanocitta cristata</i>	secure
			American crow	<i>Corvus brachyrhynchos</i>	secure
		<b>Paridae (titmice and chickadees)</b>			
			Carolina chickadee	<i>Parus carolinensis</i>	secure
			Tufted titmouse	<i>Parus bicolor</i>	secure
		<b>Sittidae (nuthatches)</b>			
			white-breasted nuthatch	<i>Sitta carolinensis</i>	secure
		<b>Certhiidae (treecreepers)</b>			
			brown creeper	<i>Certhia Americana</i>	imperiled
		<b>Troglodytidae (wrens)</b>			
			Carolina wren	<i>Thyrothorus ludovicianus</i>	secure
			house wren	<i>Troglodytes aedon</i>	apparently secure
			winter wren	<i>Troglodytes troglodytes</i>	vulnerable
		<b>Poliopitilidae (gnatcatchers)</b>			
			blue-grey gnatcatcher	<i>Poliopitila caerulea</i>	secure
		<b>Reguliidae (kinglets)</b>			
			ruby-crowned kinglet	<i>Regulus calendula</i>	none
		golden-crowned kinglet	<i>Regulus satrapa</i>	vulnerable	
	<b>Turdidae (thrushes, robins, and wheatears)</b>				
		hermit thrush	<i>Catharus guttatus</i>	imperiled	
		Swainson's thrush	<i>Catharus ustulatus</i>	none	
		wood thrush	<i>Hylocichla mustelina</i>	apparently secure	
		eastern bluebird	<i>Sialia sialis</i>	secure	
		American robin	<i>Turdus migratorius</i>	secure	
	<b>Mimidae (mockingbirds and thrashers)</b>				
		grey catbird	<i>Dumetella carolinensis</i>	apparently secure	
		northern mockingbird	<i>Mimus polyglottos</i>	secure	
		brown thrasher	<i>Toxostoma rufum</i>	secure	
	<b>Bombycillidae (waxwings)</b>				
		cedar waxwing	<i>Bombycilla cedrorum</i>	apparently secure	
	<b>Sturnidae (starlings and mynas)</b>				
		European starling	<i>Sturnus vulgaris</i>	EXOTIC	
	<b>Vireonidae (vireos)</b>				
		yellow-throated vireo	<i>Vireo flavifrons</i>	apparently secure	
		white-eyed vireo	<i>Vireo griseus</i>	apparently secure	
		Philadelphia vireo	<i>Vireo philadelphicus</i>	none	
		red-eyed vireo	<i>Vireo olivaceus</i>	secure	
	<b>Emberizidae (warblers, sparrows, et al.)</b>				
	<b>Subfamily Parulinae (wood-warblers)</b>				
		cerulean warbler	<i>Dendroica cerulean</i>	vulnerable	
		yellow-rumped warbler	<i>Dendroica coronate</i>	none	
		prairie warbler	<i>Dendroica discolor</i>	vulnerable	
		yellow-throated warbler	<i>Dendroica dominica</i>	apparently secure	

<b>Order</b>	<b>Family</b>	<b>Common Name</b>	<b>Scientific Name</b>	<b>State Conservation Status</b>	
<b>PASSERIFORMES cont'd</b>		magnolia warbler	<i>Dendroica magnolia</i>	critically imperiled	
		palm warbler	<i>Dendroica palmarum</i>	none	
		chestnut-sided warbler	<i>Dendroica pensylvanica</i>	apparently secure	
		yellow warbler	<i>Dendroica petechia</i>	secure	
		pine warbler	<i>Dendroica pinus</i>	secure	
		blackpoll warbler	<i>Dendroica striata</i>	none	
		Cape May warbler	<i>Dendroica tigrina</i>	none	
		black-throated green	<i>Dendroica virens</i>	secure	
		common yellowthroat	<i>Geothlypis trichas</i>	secure	
		yellow-breasted chat	<i>Icteria virens</i>	secure	
		black and white warbler	<i>Mniotilta varia</i>	apparently secure	
		Kentucky warbler	<i>Oporonis formosus</i>	apparently secure	
		northern parula	<i>Parula Americana</i>	secure	
		prothonotary warbler	<i>Protonotaria citrea</i>	apparently secure	
		oven bird	<i>Seiurus aurocapillus</i>	apparently secure	
		Louisiana waterthrush	<i>Seiurus motacilla</i>	secure	
		northern waterthrush	<i>Seiurus noveboracensis</i>	none	
		American redstart	<i>Setophaga ruticilla</i>	apparently secure	
		orange-crowned warbler	<i>Vermivora celata</i>	none	
		Tennessee warbler	<i>Vermivora peregrine</i>	none	
		Nashville warbler	<i>Vermivora ruficapilla</i>	none	
		Canada warbler	<i>Wilsonia canadensis</i>	vulnerable	
		hooded warbler	<i>Wilsonia citrine</i>	apparently secure	
		<b>Subfamily Thraupinae (tanagers)</b>			
			scarlet tanager	<i>Piranga olivacea</i>	secure
			summer tanager	<i>Piranga rubra</i>	apparently secure
		<b>Subfamily Cardinalidae (cardinals, grosbeaks, et al.)</b>			
			northern cardinal	<i>Cardinalis cardinalis</i>	secure
			blue grosbeak	<i>Guiraca caerulea</i>	apparently secure
			indigo bunting	<i>Passerina cyanea</i>	secure
			rose-breasted grosbeak	<i>Pheucticus ludovicianus</i>	apparently secure
		<b>Subfamily Emberizinae (towhees, sparrows, and longspurs)</b>			
			dark-eyed junco	<i>Junco hyemalis</i>	secure
			song sparrow	<i>Melospiza melodia</i>	apparently secure
			fox sparrow	<i>Passerella iliaca</i>	none
			eastern towhee	<i>Papilo erythrophthalmus</i>	secure
			chipping sparrow	<i>Spizella passerine</i>	secure
			field sparrow	<i>Spizella pusilla</i>	apparently secure
			white-throated sparrow	<i>Zonotrichia albicollis</i>	none
		<b>Subfamily Icteridae (blackbirds)</b>			
			red-winged blackbird	<i>Agelaius phoeniceus</i>	secure
			orchard oriole	<i>Icterus spurius</i>	apparently secure
			brown-headed cowbird	<i>Molothrus ater</i>	secure
			common grackle	<i>Quiscalus quiscula</i>	secure
			eastern meadowlark	<i>Sturnella magna</i>	secure
	<b>Fringillidae (cardueline finches)</b>				
		American goldfinch	<i>Carduelis tristis</i>	secure	
		house finch	<i>Carpodacus mexicanus</i>	EXOTIC	
	<b>Passeridae (old world sparrows)</b>				
		house sparrow	<i>Passer domesticus</i>	EXOTIC	



**MAMMALS**

<b>Order</b>	<b>Family</b>	<b>Common Name</b>	<b>Scientific Name</b>
<b>DIDELPHIMORPHIA – American marsupials</b>			
	<b>Didelphidae (opossums)</b>	Virginia opossum	<i>Didelphis virginianus</i>
<b>SORICOMORPHIA – insectivores</b>			
	<b>Soricidae (shrews)</b>	short-tailed shrew	<i>Blarina brevicauda</i>
	<b>Talpidae (desmans, moles, and relatives)</b>	eastern mole	<i>Scalopus aquaticus</i>
<b>CHIROPTERA – bats</b>			
	<b>Vespertilionidae (evening and vesper bats)</b>	red bat eastern pipistrelle	<i>Lasiurus borealis</i> <i>Pipistrellus subflavus</i>
<b>LAGOMORPHA - hares, pikas, and rabbits</b>			
	<b>Leporidae (hares and rabbits)</b>	eastern cottontail	<i>Sylvilagus floridanus</i>
<b>RODENTIA – rodents</b>			
	<b>Cricetidae (new world rats and mice)</b>	prairie vole common pine vole white-footed mouse hispid cotton rat	<i>Microtus ochrogaster</i> <i>Microtus pinetorum</i> <i>Peromyscus leucopus</i> <i>Sigmodon hispidus</i>
	<b>Dipodidae (jerboas and jumping mice)</b>	meadow jumping mouse	<i>Zapus hudsonius</i>
	<b>Sciuridae (squirrels)</b>	groundhog eastern grey squirrel fox squirrel	<i>Marmota monax</i> <i>Scurius carolensis</i> <i>Scurius niger</i>
<b>CARNIVORA – carnivores</b>			
	<b>Canidae (dogs)</b>	domestic dog coyote grey fox	<i>Canis familiaris</i> <i>Canis latrans</i> <i>Urocyon cinereoargenteus</i>
	<b>Felidae (cats)</b>	domestic cat	<i>Felis domesticus</i>
	<b>Mephitidae (skunks and stink badgers)</b>	striped skunk	<i>Mephitis mephitis</i>
	<b>Procyonidae (raccoons and allies)</b>	raccoon	<i>Procyon lotor</i>
	<b>Mustelidae (weasels and allies)</b>	mink	<i>Mustela vison</i>
<b>ARTIDACYTYLA - even-toed ungulates</b>			
	<b>Cervidae (deer)</b>	white-tailed deer	<i>Odocoileus virginianus</i>

**FISH**

<b>Order</b>	<b>Family</b>	<b>Common Name</b>	<b>Scientific Name</b>
<b>CYPRINODONTIFORMES</b>			
	<b>Poeciliidae (livebearers and topminnows)</b>	mosquito fish	<i>Gambusia affinis</i>
	<b>Fundulidae (topminnows)</b>	blackstripe topminnow	<i>Fundulus notatus</i>
<b>CLUPLEIFORMES</b>			
	<b>Clupeidae (herrings and shads)</b>	gizzard shad threadfin shad	<i>Dorosoma cepedianum</i> <i>Dorosoma pentenense</i>
<b>CYPRINIFORMES</b>			
	<b>Cyprinidae (minnows)</b>	stoneroller steelcolor shiner common carp golden shiner spotfin shiner bluntnose minnow	<i>Campostoma anomalum</i> <i>Cyprinella whipplei</i> <i>Cyprinus carpio</i> <i>Notemigonus crysoleucas</i> <i>Notropis spilopterus</i> <i>Pimephales notatus</i>
	<b>Catostomidae (suckers)</b>	spotted sucker golden redhorse	<i>Minytrema melanops</i> <i>Moxostoma erythrurum</i>
<b>SILURIFORMES</b>			
	<b>Ictaluridae (North American freshwater catfishes)</b>	channel catfish flathead catfish	<i>Ictalurus punctatus</i> <i>Pylodictis olivaris</i>
<b>ANTHERINIFORMES</b>			
	<b>Anterinidae (silversides)</b>	brook silverside	<i>Labidesthes sicculus</i>
<b>PERCIFORMES</b>			
	<b>Centrarchidae (sunfishes)</b>	rock bass redbreast sunfish green sunfish warmouth bluegill longear sunfish redeer sunfish largemouth bass white crappie	<i>Ambloplites repestris</i> <i>Lepomis auritus</i> <i>Lepomis cyanellus</i> <i>Lepomis gulosus</i> <i>Lepomis macrochirus</i> <i>Lepomis megalotis</i> <i>Lepomis microlophus</i> <i>Micropterus salmoides</i> <i>Pomoxis annularis</i>
	<b>Moronidae</b>	white bass	<i>Morone chrysops</i>
	<b>Percidae (perches)</b>	fantail darter logperch walleye	<i>Etheostoma flabellare</i> <i>Percina carprodes</i> <i>Stizostedion vitreum</i>
	<b>Sciaenidae (drums)</b>	freshwater drum	<i>Aplodinotus grunniens</i>

**AQUATIC INVERTEBRATES**

<b>Phylum</b>	<b>Class</b>	<b>Order</b>	<b>Family</b>	<b>Species</b>
<b>ANNELIDA (segmented worms)</b>				
	<b>Clitellata</b>			
	<b>Subclass Oligochaeta (earthworms, night crawlers, and relatives)</b>			
			<b>Enchytraeidae</b>	undetermined sp.
		<b>Haplotaxida</b>		
			<b>Naididae</b>	<i>Dero</i> sp. <i>Nais</i> sp.
			<b>Tubificidae w.h.c.</b>	undetermined sp.
			<b>Tubificidae w.o.h.c.</b>	undetermined sp.
		<b>Rhynchobdellida</b>		
			<b>Glossiphoniidae</b>	<i>Helobdella</i> sp. <i>Helobdella staginalis</i>
<b>CNIDARIA (cnidarians)</b>				
	<b>Hydrozoa</b>			
		<b>Hydroida (medusae)</b>		
			<b>Hydridae</b>	<i>Hydra</i> sp.
<b>ARTHROPODA (crustaceans, insects, spiders, and relatives)</b>				
	<b>Crustaceae</b>			
		<b>Cladocera (water fleas)</b>		
			<b>Sididae</b>	<i>Sida crystalline</i> undetermined spp.
	<b>Subclass Ostracoda</b>			
	<b>Insecta</b>			
		<b>Coleoptera (beetles)</b>		
			<b>Dytiscidae</b>	undetermined sp.
			<b>Elmidae</b>	<i>Ancyronyx</i> sp. <i>Dubiraphia</i> sp. <i>Stenelmis</i> sp. <i>Peltodytes</i> sp.
			<b>Haliplidae</b>	<i>Scirtes</i> sp.
			<b>Scirtidae</b>	
		<b>Diptera (true flies)</b>		
			<b>Ceratopogonidae</b>	<i>Alluaudonyia</i> sp. <i>Bezzia/Palpomyia</i> gp. <i>Sphaeromyias</i> sp. <i>Chaoborus punctipennis</i> <i>Ablabesmyia mallochi</i> <i>Chironomus</i> sp. <i>Cladopelma</i> sp. <i>Cladotanytarsus</i> sp. <i>Cryptochironomus fulvus</i> <i>Dicrotendipes lucifer</i> <i>Glyptotendipes</i> sp. <i>Polypedilum halterale</i> <i>Procladius bellus</i> <i>Tanytarsus</i> sp.
			<b>Chaoboridae</b>	undetermined sp.
			<b>Chironomidae</b>	undetermined sp.
			<b>Ephydriidae</b>	
			<b>Tipulidae</b>	
		<b>Ephemeroptera (mayflies)</b>		
			<b>Baetidae</b>	undetermined spp.
			<b>Caenidae</b>	<i>Caenis</i> sp.
			<b>Ephemeridae</b>	<i>Hexagenia limbata</i>

<b>Phylum</b>	<b>Class</b>	<b>Order</b>	<b>Family</b>	<b>Species</b>
<b>ARTHROPODA cont'd</b>				
	<b>Insecta</b>			
		<b>Hemiptera (true bugs)</b>		
			Corixidae	undetermined sp.
		<b>Odonata (dragonflies and damselflies)</b>		
			Coenagrionidae	<i>Enallagma</i> sp.
			Corduliidae	<i>Epithea</i> sp.
		<b>Trichoptera (caddisflies)</b>		
			Hydropsychidae	<i>Cheumatopsyche</i> sp.
			Hydroptilidae	<i>Hydroptila</i> sp.
				<i>Orthotrichia</i> sp.
			Leptoceridae	undetermined sp.
			Polycentropodidae	<i>Cyrnellus fraternus</i>
	<b>Malacostraca</b>			
		<b>Amphipoda (amphipods)</b>		
			Cragonyctidae	<i>Cragonyx</i> sp.
			Gammaridae	<i>Gammarus</i> sp.
			Hyalaliedae	<i>Hyella azteca</i>
		<b>Isopoda (pillbugs and sowbugs)</b>		
			Asellidae	<i>Lirceus</i> sp.
<b>MOLLUSCA (mollusks)</b>				
	<b>Bivalvia (bivalves and clams)</b>			
		<b>Veneroida</b>		
			Corbiculidae	<i>Cobicula flaminea</i>
			Pisidiidae	<i>Pisidium</i> sp.
		<b>Gastropoda (slugs and snails)</b>		
		<b>Basommatophora</b>		
			Ancylidae	<i>Ferrissia rivularis</i>
			Lymnaeidae	<i>Pseudosuccinea</i> sp.
			Physidae	<i>Physa</i> sp.
			Planorbidae	<i>Helisoma</i> sp.
		<b>Neotaenioglossa</b>		
			Pleuroceridae	<i>Goniobasis</i> sp.
<b>PLATYHELMINTHES (flatworms)</b>				
	<b>Turbellaria (planarians)</b>			
		<b>Tricladida</b>		
			Planariidae	undetermined sp.

## VASCULAR PLANTS

Family	Scientific Name	Common Name
Acanthaceae	<i>Justicia americana</i>	American water willow
Aceraceae	<i>Acer negundo</i>	boxelder
	<i>Acer rubrum</i>	red maple
	<i>Acer saccharinum</i>	silver maple
	<i>Acer saccharum</i>	sugar maple
Agavaceae	<i>Yucca flaccida</i>	weak-leaf yucca
Anacardiaceae	<i>Rhus copallinum</i>	winged sumac
	<i>Rhus glabra</i>	smooth sumac
	<i>Toxicodendron radicans</i>	eastern poison ivy
Apiaceae	<i>Angelica venenosa</i>	hairy angelica
	<i>Chaerophyllum tainturieri</i>	southern chervil
	<i>Daucus carota</i> **	Queen Anne's lace
	<i>Sanicula canadensis</i> var. <i>canadensis</i>	Canada-sanicle
	<i>Thaspium trifoliatum</i> var. <i>aureum</i>	smooth meadow-parsnip
	<i>Zizia aurea</i>	golden Alexanders
Apocynaceae	<i>Amsonia tabernaemontana</i>	eastern bluestar
	<i>Apocynum cannabinum</i>	indian hemp
	<i>Vinca minor</i> **	lesser periwinkle
Araceae	<i>Arisaema dracontium</i>	green dragon
	<i>Arisaema triphyllum</i>	Jack in the pulpit
	<i>Peltandra virginica</i>	green arrow arum
Aristolochiaceae	<i>Aristolochia serpentaria</i>	Virginia snakeroot
Asclepiadaceae	<i>Asclepias tuberosa</i> ssp. <i>tuberosa</i>	butterfly weed
	<i>Asclepias variegata</i>	redring milkweed
Aspleniaceae	<i>Asplenium platyneuron</i>	ebony-spleenwort
	<i>Woodsia obtusa</i>	blunt-lobed woodsia
Asteraceae	<i>Ageratina altissima</i>	white snakeroot
	<i>Ambrosia artemisiifolia</i> var. <i>elatiior</i>	common ragweed
	<i>Ambrosia psilostachya</i>	Cuman ragweed
	<i>Antennaria neglecta</i>	field pussytoes
	<i>Antennaria plantaginifolia</i>	woman's tobacco
	<i>Bidens coronata</i>	crowned beggars ticks
	<i>Cirsium arvense</i> **	Canada thistle
	<i>Coryza canadensis</i>	horseweed
	<i>Coreopsis major</i>	greater tickseed
	<i>Coreopsis tinctoria</i>	plains tickseed
	<i>Erigeron annuus</i>	eastern daisy fleabane
	<i>Erigeron philadelphicus</i>	Philadelphia daisy
	<i>Erigeron strigosus</i>	rough fleabane
	<i>Hieracium venosum</i>	rattlesnake weed
	<i>Lactuca biennis</i>	tall blue lettuce
	<i>Leucanthemum vulgare</i> **	oxeye daisy
	<i>Packera aurea</i>	golden ragwort
	<i>Packera glabella</i>	creasleaf groundsel
	<i>Rudbeckia hirta</i>	black-eyed Susan
<i>Rudbeckia triloba</i>	browneyed Susan	

<b>Family</b>	<b>Scientific Name</b>	<b>Common Name</b>
Asteraceae cont'd	<i>Sericocarpus linifolius</i>	narrowleaf whitetop aster
	<i>Silphium</i> spp.	rosinweed
	<i>Smallanthus uvedalius</i>	hairy leafcup
	<i>Solidago altissima</i>	late goldenrod
	<i>Solidago canadensis</i> var. <i>hargerii</i>	common goldenrod
	<i>Tragopogon lamottei</i> *	Jack-go-to-bed-at-noon
	<i>Verbesina alternifolia</i>	wingstem
	<i>Vernonia gigantea</i>	tall ironweed
Balsaminaceae	<i>Impatiens capensis</i>	spotted touch-me-not
	<i>Impatiens pallida</i>	pale touch-me-not
Berberidaceae	<i>Podophyllum peltatum</i>	mayapple
	<i>Berberis thunbergii</i> *	Japanese barberry
Bignoniaceae	<i>Bignonia capreolata</i>	crossvine
	<i>Campsis radicans</i>	trumpet creeper
	<i>Catalpa speciosa</i>	northern catalpa
Boraginaceae	<i>Buglossoides arvensis</i> *	corn gromwell
	<i>Myosotis verna</i>	spring forget-me-not
Brassicaceae	<i>Barbarea vulgaris</i> *	winter cress
	<i>Capsella bursa-pastoris</i> *	shepherd's purse
	<i>Nasturtium officinale</i> *	watercress
Cactaceae	<i>Opuntia humifusa</i>	prickly-pear cactus
Campanulaceae	<i>Lobelia cardinalis</i>	cardinal flower
	<i>Lobelia puberula</i>	downy lobelia
	<i>Triodanis perfoliata</i>	clasping-leaf Venus' looking-glass
Cannabaceae	<i>Humulus lupulus</i> *	common hop
Caprifoliaceae	<i>Lonicera japonica</i> **	Japanese honeysuckle
	<i>Sambucus canadensis</i>	common elderberry
	<i>Symphoricarpos orbiculatus</i>	coralberry
	<i>Viburnum prunifolium</i>	smooth blackhaw
Caryophyllaceae	<i>Cerastium nutans</i> var. <i>nutans</i>	nodding chickweed
	<i>Dianthus armeria</i> *	Deptford pink
	<i>Silene virginica</i>	fire pink
Chenopodiaceae	<i>Chenopodium album</i> *	lamb's quarters
Clusiaceae	<i>Hypericum prolificum</i>	shrubby St. Johnswort
	<i>Hypericum punctatum</i>	spotted St. Johnswort
Commelinaceae	<i>Commelina communis</i> *	Asiatic dayflower
	<i>Commelina virginica</i>	Virginia dayflower
Cornaceae	<i>Cornus amomum</i>	silky dogwood
	<i>Cornus drummondii</i>	rough-leaved dogwood
	<i>Cornus florida</i>	flowering dogwood
	<i>Nyssa sylvatica</i>	black tupelo
Crassulaceae	<i>Sedum pulchellum</i>	widow's-cross
Cupressaceae	<i>Juniperus virginiana</i>	eastern red cedar
	<i>Taxodium distichum</i>	bald cypress
Cuscutaceae	<i>Cuscuta compacta</i>	compact dodder
	<i>Cuscuta gronovii</i>	scaldweed
Cyperaceae	<i>Carex annectens</i>	yellow-fruit sedge
	<i>Carex cephalophora</i>	oval-leaf sedge

Family	Scientific Name	Common Name	
Cyperaceae cont'd	<i>Carex communis</i>	fibrousroot sedge	
	<i>Carex flaccosperma</i>	thin-fruit sedge	
	<i>Carex frankii</i>	Frank's sedge	
	<i>Carex grayi</i>	Gray's sedge	
	<i>Carex laxiflora</i> var. <i>laxiflora</i>	broad looseflower sedge	
	<i>Carex lupulina</i>	hop sedge	
	<i>Carex lurida</i>	sallow sedge	
	<i>Carex pennsylvanica</i>	Pennsylvania sedge	
	<i>Carex retroflexa</i>	reflexed sedge	
	<i>Carex rosea</i>	rosy sedge	
	<i>Carex scoparia</i>	broom sedge	
	<i>Carex stipata</i> var. <i>stipata</i>	owlfruit sedge	
	<i>Carex tribuloides</i>	blunt broom sedge	
	<i>Carex vulpinoidea</i>	fox sedge	
	<i>Eleocharis</i> spp.	spike rush	
	<i>Scirpus atrovirens</i>	dark-green bulrush	
	<i>Scirpus cyperinus</i>	cottongrass bulrush	
	<i>Scirpus polyphyllus</i>	leafy bulrush	
	Dioscoreaceae	<i>Dioscorea villosa</i>	wild yam
	Dipsacaceae	<i>Dipsacus fullonum</i> **	Fuller's teasel
Dryopteridaceae	<i>Onoclea sensibilis</i>	sensitive fern	
	<i>Polystichum acrostichoides</i>	Christmas fern	
Ebenaceae	<i>Diospyros virginiana</i>	common persimmon	
Elaeagnaceae	<i>Elaeagnus pungens</i> **	thorny olive	
	<i>Elaeagnus umbellata</i> **	autumn olive	
Equisetaceae	<i>Equisetum hyemale</i>	scouringrush horsetail	
Euphorbiaceae	<i>Euphorbia corollata</i>	flowering spurge	
Fabaceae	<i>Albizia julibrissin</i> **	mimosa	
	<i>Amphicarpaea bracteata</i>	American hogpeanut	
	<i>Cercis canadensis</i>	eastern redbud	
	<i>Chamaecrista fasciculata</i>	partridge pea	
	<i>Desmanthus illinoensis</i>	prairie bundleflower	
	<i>Desmodium nudiflorum</i>	naked-flower ticktrefoil	
	<i>Desmodium paniculatum</i>	panickedlead ticktrefoil	
	<i>Desmodium rotundifolium</i>	prostrate ticktrefoil	
	<i>Gleditsia triacanthos</i>	honeylocust	
	<i>Lespedeza cuneata</i> **	Chinese bush-clover, sericea lespedeza	
	<i>Lespedeza procumbens</i>	trailing bush-clover	
	<i>Lespedeza violacea</i>	violet bush-clover	
	<i>Lespedeza virginica</i>	slender bush-clover	
	<i>Medicago</i> sp. *	alfalfa	
	<i>Melilotus officinalis</i> **	yellow sweet-clover	
	<i>Robinia pseudoacacia</i>	black locust	
	<i>Stylosanthes biflora</i>	sidebeak pencilflower	
	<i>Trifolium dubium</i> *	suckling clover	
	<i>Trifolium repens</i> *	white clover	
	<i>Vicia sativa</i> ssp. <i>nigra</i> *	garden vetch	
Fagaceae	<i>Quercus alba</i>	northern white oak	
	<i>Quercus coccinea</i> var. <i>coccinea</i>	scarlet oak	

<b>Family</b>	<b>Scientific Name</b>	<b>Common Name</b>
Fagaceae cont'd	<i>Quercus falcata</i>	southern red oak
	<i>Quercus imbricaria</i>	shingle oak
	<i>Quercus macrocarpa</i>	bur oak
	<i>Quercus muehlenbergii</i>	chinquapin oak
	<i>Quercus prinus</i>	chestnut oak
	<i>Quercus rubra</i>	northern red oak
	<i>Quercus shumardii</i>	Shumard oak
	<i>Quercus stellata</i>	post oak
	<i>Quercus velutina</i>	black oak
Geraniaceae	<i>Geranium carolinianum</i>	Carolina geranium
Hamamelidaceae	<i>Liquidambar styraciflua</i>	sweetgum
Hippocastanaceae	<i>Aesculus glabra</i>	Ohio buckeye
Hydrangeaceae	<i>Philadelphus hirsutus</i>	hairy mock-orange
Iridaceae	<i>Belamcanda chinensis</i> *	blackberry lily
	<i>Sisyrinchium mucronatum</i>	needletip blue-eyed grass
Juglandaceae	<i>Carya alba</i>	mockernut hickory
	<i>Carya cordiformis</i>	bitternut hickory
	<i>Carya glabra</i>	pignut hickory
	<i>Carya ovata</i>	shagbark hickory
	<i>Juglans nigra</i>	black walnut
Juncaceae	<i>Juncus debilis</i>	weak rush
	<i>Juncus diffusissimus</i>	slim-pod rush
	<i>Juncus effusus</i>	soft rush
	<i>Luzula echinata</i>	hedgehog woodrush
	<i>Juncus tenuis</i>	poverty rush
Lamiaceae	<i>Glechoma hederacea</i> *	ground ivy
	<i>Lamium amplexicaule</i> *	henbit
	<i>Lamium purpureum</i> *	deadnettle
	<i>Lycopus virginicus</i>	Virginia water horehound
	<i>Physostegia virginiana</i>	obedient plant
	<i>Prunella vulgaris</i> *	common selfheal
	<i>Pycnanthemum incanum</i>	hoary mountainmint
	<i>Pycnanthemum tenuifolium</i>	narrowleaf mountainmint
	<i>Salvia lyrata</i>	lyre-leaf sage
	<i>Stachys tenuifolia</i>	smooth hedge nettle
	<i>Teucrium canadense</i>	Canada germander
Lauraceae	<i>Lindera benzoin</i>	northern spicebush
	<i>Sassafras albidum</i>	sassafras
Liliaceae	<i>Allium canadense</i> var. <i>canadense</i>	meadow garlic
	<i>Eythonium americanum</i>	yellow trout lily
	<i>Hemerocallis fulva</i> *	orange daylily
	<i>Maianthemum racemosum</i>	feathery false lily of the valley
	<i>Polygonatum biflorum</i>	smooth Solomon's seal
	<i>Trillium cuneatum</i>	little sweet Betsy
	<i>Trillium flexipes</i>	nodding wakerobin
	<i>Uvularia sessilifolia</i>	sessile-leaf bellwort
Lycopodiaceae	<i>Lycopodium dendroidium</i>	tree groundpine
Magnoliaceae	<i>Liriodendron tulipifera</i>	tuliptree
Malvaceae	<i>Hibiscus moscheutos</i> ssp. <i>moscheutos</i>	crimson-eyed rose-mallow



<b>Family</b>	<b>Scientific Name</b>	<b>Common Name</b>
Moraceae	<i>Maclura pomifera</i>	Osage orange
	<i>Morus alba</i> *	white mulberry
	<i>Morus rubra</i>	red mulberry
Oleaceae	<i>Fraxinus americana</i>	white ash
	<i>Fraxinus pennsylvanica</i>	green ash
	<i>Ligustrum sinense</i> **	Chinese privet
	<i>Ligustrum vulgare</i> **	European privet
Onagraceae	<i>Ludwigia alternifolia</i>	seedbox
	<i>Oenothera biennis</i>	common evening primrose
Ophioglossaceae	<i>Botrychium virginianum</i>	rattlesnake fern
Orchidaceae	<i>Goodyera pubescens</i>	downy rattlesnake plantain
	<i>Spiranthes vernalis</i>	spring ladies tresses
Oxalidaceae	<i>Oxalis stricta</i>	upright tellow woodsorrel
	<i>Oxalis violacea</i>	violet woodsorrel
Passifloraceae	<i>Passiflora incarnata</i>	purple passion flower
	<i>Passiflora lutea</i>	yellow passion flower
Phytolaccaceae	<i>Phytolacca americana</i>	American pokeweed
Pinaceae	<i>Pinus taeda</i>	loblolly pine
Plantaginaceae	<i>Plantago aristata</i>	large bract plantain
	<i>Plantago lanceolata</i> *	English plantain
	<i>Plantago major</i>	great plantain
Platanaceae	<i>Platanus occidentalis</i>	American sycamore
Poaceae	<i>Andropogon virginicus</i>	broomsedge bluestem
	<i>Arundinaria gigantea</i>	giant cane
	<i>Bromus arvensis</i> *	field brome
	<i>Bromus secalinus</i> **	rye brome
	<i>Chasmanthium latifolium</i>	indian wood-oats
	<i>Danthonia spicata</i>	poverty wild oat grass
	<i>Dichantherium boscii</i>	Bosc's rosette grass
	<i>Dichantherium commutatum</i>	variable rosette grass
	<i>Digitaria ciliaris</i>	southern crabgrass
	<i>Digitaria sanguinalis</i>	hairy crabgrass
	<i>Elymus riparius</i>	riverbank wildrye
	<i>Elymus virginicus</i>	Virginia wildrye
	<i>Festuca subverticillata</i>	nodding fesque
	<i>Glyceria striata</i>	fowl manna grass
	<i>Leersia orzyoides</i>	rice cutgrass
	<i>Lolium perenne</i> *	perennial ryegrass
	<i>Melica mutica</i>	two-flower melic grass
	<i>Microstegium vimineum</i> **	Nepalese browntop, Japanese grass
	<i>Panicum flexile</i>	wiry panic grass
	<i>Poa pratensis</i>	Kentucky bluegrass
<i>Schedonorus phoenix</i> *	tall fescue	
<i>Schedonorus pratensis</i> *	meadow fescue	
<i>Sorghum halepense</i> **	Johnson grass	
Polemoniaceae	<i>Phlox divaricata</i>	wild blue phlox
	<i>Polemonium reptans</i> var. <i>reptans</i>	Greek valerian
Polygonaceae	<i>Polygonum hydropiper</i>	mild water pepper
	<i>Polygonum hydropiperoides</i>	swamp smartweed

<b>Family</b>	<b>Scientific Name</b>	<b>Common Name</b>
	<i>Polygonum lapathifolium</i>	dock-leaf smartweed
	<i>Rumex crispus</i> *	curly dock
Portulacaceae	<i>Claytonia virginica</i>	Virginia springbeauty
Ranunculaceae	<i>Actaea pachypoda</i>	white baneberry
	<i>Actaea racemosa</i>	black baneberry
	<i>Anemone virginiana</i>	thimbleweed
	<i>Clematis virginiana</i>	devil's-darning needles
	<i>Ranunculus bulbosus</i> *	St. Anthony's turnip
	<i>Ranunculus sardous</i> *	hairy buttercup
	<i>Ceanothus americanus</i>	New Jersey tea
Rhamnaceae	<i>Frangula caroliniana</i>	Carolina buckthorn
Rosaceae	<i>Agrimonia gryposepala</i>	tall hair agrimony
	<i>Crataegus crus-galli</i>	cockspur hawthorne
	<i>Crataegus mollis</i>	downy hawthorne
	<i>Geum canadense</i>	white avens
	<i>Potentilla canadensis</i>	dwarf cinquefoil
	<i>Potentilla simplex</i>	oldfield cinquefoil
	<i>Prunus americana</i>	American plum
	<i>Prunus serotina</i>	black cherry
	<i>Rosa carolina</i>	Carolina rose
	<i>Rosa multiflora</i> **	rambler rose, multiflora rose
	<i>Rubus allegheniensis</i>	Allegheny blackberry
	<i>Rubus argutus</i>	saw-tooth blackberry
	<i>Rubus flagellaris</i>	whiplash dewberry
	<i>Rubus occidentalis</i>	black raspberry
	<i>Spiraea tomentosa</i>	steeplebush
Rubiaceae	<i>Cephalanthus occidentalis</i>	common buttonbush
	<i>Diodia virginiana</i> var. <i>virginiana</i>	Virginia-buttonweed
	<i>Galium aparine</i>	sticky-willy
	<i>Galium circaezans</i> var. <i>circaezans</i>	licorice bedstraw
	<i>Galium pilosum</i> var. <i>pilosum</i>	hairy bedstraw
	<i>Houstonia caerulea</i>	Quaker-ladies
	<i>Houstonia purpurea</i>	Venus' pride
Salicaceae	<i>Populus alba</i> **	white poplar
	<i>Populus deltoides</i> ssp. <i>deltoides</i>	cottonwood
	<i>Salix caroliniana</i>	Carolina willow
	<i>Salix exigua</i>	sandbar willow
	<i>Salix nigra</i>	black willow
Saururaceae	<i>Saururus cernuus</i>	lizard's-tail
Scrophulariaceae	<i>Verbascum thapsus</i> **	common mullein
Simaroubaceae	<i>Ailanthus altissima</i> **	tree of heaven
Smilacaceae	<i>Smilax bona-nox</i>	fringed greenbrier
	<i>Smilax rotundifolia</i>	horsebrier
Solanaceae	<i>Physalis heterophylla</i>	clammy groundcherry
	<i>Solanum carolinense</i> var. <i>carolinense</i>	Carolina horsenettle
Typhaceae	<i>Typha latifolia</i>	broad leaf cat tail
Ulmaceae	<i>Celtis laevigata</i>	sugarberry
	<i>Celtis occidentalis</i>	common hackberry
	<i>Ulmus alata</i>	winged elm

<b>Family</b>	<b>Scientific Name</b>	<b>Common Name</b>
	<i>Ulmus americana</i>	American elm
	<i>Ulmus rubra</i>	slippery elm
Urticaceae	<i>Boehmeria cylindrica</i>	small spike false nettle
	<i>Pilea pumila</i>	Canadian clearweed
Valerianaceae	<i>Valerianella radiata</i>	beaked cornsalad
Verbenaceae	<i>Phyla nodiflora</i>	turkey tangle fogfruit
	<i>Verbena simplex</i>	narrow-leaf vervain
	<i>Viola pedata</i>	bird-foot violet
Violaceae	<i>Viola sororia</i>	hooded blue violet
Vitaceae	<i>Ampelopsis cordata</i>	heartleaf peppervine
	<i>Parthenocissus quinquefolia</i>	Virginia-creeper
	<i>Vitis aestivalis</i>	summer grape
	<i>Vitis labrusca</i>	fox grape
	<i>Vitis rotundifolia</i>	muscadine

\*Non-Native Plants

\*\* Invasive Pest Plants



## **APPENDIX G**

### **Natural Areas Near VTS-Smyrna**

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**Natural Areas within a 15 mile radius of VTS-Smyrna**

<b>Name</b>	<b>County</b>	<b>Area (acres)</b>	<b>Notable Features</b>
Cedars of Lebanon State Forest	Wilson	9420	A National Natural Landmark containing two federally endangered plant species, Tennessee coneflower and leafy prairie clover. Additionally, several state-listed species are present.
Long Hunter State Park	Davidson, Rutherford	2400	Located along the eastern shores of J. Percy Priest Lake. Contains Couchville Lake, a 110 acre body of water that formed shortly after the impoundment of the reservoir when water filled underlying karst features. The park boasts cedar glades, forested areas, and a variety of recreational and educational opportunities.
Couchville Cedar Glade	Davidson, Wilson	122	Lies adjacent to the eastern boundary of Long Hunter State Park. Supports one of the largest known populations of Tennessee coneflower.
Elsie Quarterman Cedar Glade	Rutherford	185	Part of the J. Percy Priest Reservoir and is managed by both the USACE and TWRA. Named for Elsie Quarterman, a pioneering cedar glade researcher, who was a professor at Vanderbilt University.
Fate Sanders Barrens	Rutherford	230	Located on the eastern shore of J. Percy Priest Lake. Supports a diverse barrens community of grasses and plants typical of cedar glades, both of which require periodic burning for long term survival.
Gattinger's Cedar Glade	Rutherford, Wilson	57	Supports very large community of Tennessee coneflower as well as a host of other rare, cedar glade endemic species. Named for Augustin Gattinger, a well-known botanist who published the first descriptions of Tennessee coneflower and many other plant species native to Tennessee.
Mount View Cedar Glade	Davidson	9	Contains cedar glade habitat that is surrounded by intensive suburban development.
Stones River Cedar Glade	Rutherford	185	Located within the boundaries of the Stones River National Battlefield. Site of rigorous cedar glade and grassland restoration projects as well as aggressive invasive pest plant management.
Sunnybell Cedar Glade	Rutherford	36	Named for the sizable population of yellow sunnybells, a state-listed threatened plant found in calcareous washes in cedar glades, which are located on the site.

**Natural Areas within a 15 mile radius of VTS-Smyrna**

<b>Name</b>	<b>County</b>	<b>Area (acres)</b>	<b>Notable Features</b>
Vesta Cedar Glade	Wilson	150	Partially located within the boundaries of Cedars of Lebanon State Forest. Contains a variety of habitats including: cedar glades, barrens, and mixed cedar hardwood forests.
Vine Cedar Glade	Wilson	35	Located in the southeastern corner of Cedars of Lebanon State Forest. Supports a large population of Tennessee coneflower.
Walterhill Flood Plain	Rutherford	34	Situated in an agricultural field found on the floodplain of Stones River. Supports a large, healthy population of Stones River bladderpod, an extremely rare plant species that thrives in disturbed agricultural field habitat. Field management is the responsibility of Middle Tennessee State University's College of Agriculture.
Approximate Total Acreage <sup>1</sup>		12863	

<sup>1</sup> Portions of Vesta Cedar Glade and Vine Cedar Glade are located within the perimeter of Cedars of Lebanon State Forest



## **APPENDIX H**

### **American Indian Tribes Consulted by Tennessee Army National Guard**

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**Alabama-Coushatta Tribe of Texas**

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**Cherokee Nation**

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**Jena Band of Choctaw**

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## **APPENDIX I**

### **Pest Management at VTS-S:**

#### **General information**

**List of Approved Pesticide Chemicals for Use on VTS-S**

**Format for Reporting Pesticide/Herbicide Applications**

## GENERAL PEST MANAGEMENT INFORMATION

- Pest management activities on TNARNG properties are guided by the TNARNG Integrated Pest Management Plan.
- Only certified applicators may apply any herbicide or pesticide (general use or restricted use) on TNARNG facilities. Applicator must have either a DoD Pesticide Applicator Certification or a Tennessee Commercial Applicator Certification for the appropriate category of pesticide.
- All pesticide/herbicide applications made by contractor or TNARNG staff will be reported to the Pest Management Coordinator (PMC). The reporting form to be used is included in this Appendix. Contact information for the PMC is located at the bottom of the form.
- Control of pests of facilities (e.g., termites, spiders, mice) is handled through contract by the training site maintenance office. Contract exterminators may only apply the approved pesticides listed in Table I.1 for use on pest plants and Table I.2 for use on animal pests. Contract exterminators will fill out a reporting form (Figure I.1) completely for each chemical utilized on a visit. The training site will submit a copy of this form to the PMC (see bottom of reporting form for contact information). If, in the future, any VTS-S personnel should receive either DoD or state certification and apply pesticides at the facility, they should also fill out the reporting form and submit it to the PMC.
- In certain situations, a non-certified person may apply a pesticide on a self-help basis for personal protection on a job site. The following limitations apply to self-help pesticide applications:
  - Self-help applications will include only those products listed in Table I.3. Applications of these products must be reported to the PMC annually.
  - Self-help applications are for personal safety and comfort within the workplace and as such will be made only to small areas. Applications to an entire building or armory do not qualify as self-help. If a large portion of the facility requires treatment, a contracted pesticide applicator is needed.
  - Food preparation areas are NOT treated with self-help applications. Kitchens and related areas require professional treatment.

For more information on self-help applications, contact the PMC.



**Table I.1: Herbicides for use on pest plants on Tennessee Army National Guard properties**

<b>All Vegetation (bare ground)</b>		
Arsenal	Oust	Round-up Ultra Dry
Escort	Outrider	Round-up Ultra Max
Hyvar XL	Reward	Sahara DG
Krovar IDF	Round-up Pro	Scythe
<b>Pre-emergent Herbicides</b>		
Balan DF	Surflan A.S	
Banvel-720	MSMA	
Dyclomec		
<b>Selective Post-emergent (grasses) Cool Season Grasses</b>		
MSMA		Plateau
Poast		
<b>Plant Growth Regulator</b>		
Cutless 50W		
Embark		
Primo		
<b>Brush &amp; Forestry (also for use on privet &amp; honeysuckle)</b>		
Accord Site Prep	Escort	Velpar L
Arsenal	Oust	Velpar ULW
Garlon 3A	Round-up Pro	
Garlon 4	Tordon K	
<b>Aquatic Weeds &amp; Algae</b>		
Aquashade	Rodeo	
Citrine Algaecide	Sonar A.S.	
Reward 2,4-D 4amine I		
<b>Mosquito (larval stage)</b>		
Agnique MMF	<b>Mosquito (adults)</b>	
	Aqua-Reslin	

Generic formulations of identical chemical composition may be substituted for these approved pesticides.

**Table I.2: Pesticides for use on pest animals on Tennessee Army National Guard properties**

<b>Mosquitoes (larvae)</b>		<b>Mosquitoes (adults)</b>
Agnique MMF		Aqua-Reslin
Altosid		Bio-Mist 1.5 + 7.5
Altosid LL		Fyfanon
Altosid Pellets		Kontrol 4,4
Altosid XR		Mosquito Beater
Bactimos Briquets		Permanone 10% EC
Vectorex-CG		Scourge 4+12
		ULD BP-100
		ULD BP-300
<b>Fire Ants</b>		<b>Filth Flies</b>
Amdro		FlyTek Fly Bait
Avenger		Golden Malrin
Award Fire Ant Bait		Stimukil Fly Bait
Chipco Top Choice Fire Ant Bait		
Maxforce Fire Ant Bait		
<b>Termites</b>		<b>Bees &amp; Wasps</b>
Bora-Care		Stinger
Dursban TC		Wasp-Freeze PT515
Premise		
Termidor 80WG		
Termidor SC		
Tim-Bor		
<b>General Arthropod control in and around buildings</b>		
Advance Ant Bait	Dual Choice Ant Bait	Precor Plus Fogger
Affront	Gentrol	PT565 Plus XLO
Borid	Kicker	Roach Kill
Catalyst	Maxforce FG	Saga
CB-80 Extra	Maxforce Gel	Suspend SC
Cynoff 2E	Maxforce Roach Bait	Tempo Ultra SC
DeltaDust	Niban Bait	Tempo 20WP
DeltaGard	Nylar IGR	ULD BP-100
Demand CS	PCO Fogger	ULD BP-300
Demon EC	Perma-Dust	Ultracide
Drax Ant Bait	P.I. Contact	Zero-In 797-A
Drione		
<b>Rodents (mice/rats)</b>		<b>Squirrels</b>
Conrac		4-the-Squirrels
Ditrac		
Fastrac		
Final Blox		
Talon-G		<b>Birds</b>
WeatherBlok		4-the-Birds

Generic formulations of identical chemical composition may be substituted for these approved pesticides.

**Table I.3: Products approved for use under the self-help program on TNARNG properties. For more information, see the Integrated Pest Management Plan or contact the Pest Management Coordinator.**

Product description	Brand name examples	Active ingredient (s)
Cockroach bait station	Combat Quick Kill	Fipronil
Ant bait station	MaxForce Ant Bait	Fipronil
Ant bait	Advance Dual Choice Amdro Fire Ant Bait	N-ethyl perfluorooctane sulfonamide
	Amdro Fire Ant Bait	Hydramethylnon
Aerosol insecticide	Kill Zone House & Garden Insect Killer Formula 3	D-trans Allethrin, 0.15%, and Resmethrin, 0.2%
	PT 565 Plus XLO	Pyrethrin
Wasp spray	PT 515 Wasp Freeze and Hornet Killer	pyrethrin, allethrin, d-phenothrin, or resmethrin
	Wasp Stopper II Plus	
Boric acid (roach killer)	Roach Kill	boric acid
Roach trap	Mr. Sticky	NA
Rodent glue trap	Victor Holdfast	NA
Spring mouse trap	NA	NA
Fly swatter	NA	NA
Indoor Fly Catcher, cylindrical sticky trap	NA	NA
Insect Fly Catcher, sticky strips	NA	NA

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**Pest Control Treatment Record**

(Have the contractor fill this form out or provide a printed receipt providing all information.)

Site: \_\_\_\_\_ Treatment Date: \_\_\_\_\_  
 Location of Treatment: \_\_\_\_\_  
 Type of Pest Problem: \_\_\_\_\_  
 Indicators of Pest Problem: \_\_\_\_\_  
 (What did you observe and where? Number of pests seen, signs of damage,...)

**Chemical Pesticide/Herbicide Application**

Pest control contractors must be state-certified for commercial application – include copy of certification if not on file with contract.

Pesticide/Herbicide Trade Name: \_\_\_\_\_  
 EPA Registration Number: \_\_\_\_\_  
 Active Ingredient(s) and % Concentration: \_\_\_\_\_ %  
 \_\_\_\_\_ %  
 \_\_\_\_\_ %

Quantity of Concentrate Used (if applicable): \_\_\_\_\_

Quantity of Finished Pesticide Applied: \_\_\_\_\_

% Active Ingredient as Applied: \_\_\_\_\_ %

Size of Treated Area: \_\_\_\_\_

Application Rate: \_\_\_\_\_

Applicator Name: \_\_\_\_\_ Certification # \_\_\_\_\_

Man Hours Used: \_\_\_\_\_ Category(s) \_\_\_\_\_

Pest Control Company: \_\_\_\_\_ License # \_\_\_\_\_

**Maintain copies of this form on site.**

**Send copies quarterly to:** TNARNG Milan Training Site  
 Attn: Laura Lecher  
 325 Arsenal Lane  
 Lavinia, TN 38348

Or Fax: (731)222-5323

For more information call: (731)222-5321 or email: Laura.Lecher@tn.gov

**Figure I.1: Pest control treatment record.**



## **APPENDIX J**

### **Annual Review of the INRMP**

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**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 06 – 1 May 07.)***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. If a table is already available, paste in or submit as separate sheet and reference here.)***Proposed Implementation:** *(List all projects and actions planned for the next reporting period. If a table is already available, paste in or submit as a separate sheet and reference here.)***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.)*

