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I. Introduction

A. Purpose

The purpose of this document is to present the Land Stewardship Policy for the Conservation Areas (CAs), the 100 Year Limited Development Area and the 50 Year Limited Development Areas of the Carolina North (CN) property. These three areas are collectively referred to as the “Protected Areas” in this Land Stewardship Policy. It is intended that this Land Stewardship Policy conveys both the intent and the procedures that will guide The University of North Carolina at Chapel Hill’s (University’s or UNC-CH’s) oversight and management of the Protected Areas of the CN property into the future. This is a living document that is intended to be revised periodically to reflect a continuous, progressive, and adaptive approach to stewardship and management strategies. Revisions to this document will follow the protocol established in Section III. Institutional Framework.

B. Site Description

The CN property, located approximately two miles north of main campus, encompasses approximately 947 acres and is owned by the University and the State of North Carolina. (Figure 1). Approximately 643 acres are located within the Town of Chapel Hill (TOCH) planning jurisdiction, while the remainder (approximately 304 acres) is located within the Town of Carrboro planning jurisdiction. Seawell School Road is generally the boundary between the towns of Chapel Hill and Carrboro. Residential development surrounds the property. A three-school complex -- consisting of Seawell Elementary, Smith Middle School and Chapel Hill High School -- is located to the west of Seawell School Road. Two large perennial streams drain most of the property: Bolin Creek to the west and Crow Branch Creek to the east.

As directed in the document “Development Agreement By and Between the University of North Carolina at Chapel Hill and the TOCH, Effective Date July 1, 2009” as amended by Minor Modification 2012-1, four separate areas within the CN property were created: the Development Area, the CAs, the 100 Year Limited Development Area, and the 50 Year Limited Development Areas. This Land Stewardship Policy applies solely to the CAs, the 100 Year Limited Development Area, and the 50 Year Limited Development Areas.

As part of the 2009 Development Agreement with the TOCH, the University agreed to place 258 acres of the tract into CAs under perpetual conservation, 53 acres of the tract into the 100 Year Limited Development Area under conservation until 2109, and 408 acres of the tract into the 50 Year Limited Development Areas under conservation until 2059.

The predominant land cover type in the Protected Areas is pine and mixed pine/hardwood forest. The CN Development Area, which is not subject to this Land Stewardship Policy, is centered primarily on the historical footprint of the Horace Williams Airport and represents approximately 228 of the 947 total acres.
Figure 1: Carolina North Overview Map

Legend

- Development Area (50-year)
- Development Area (20-year)
- Limited Development Area (100-year)
- Limited Development Area (50-year)
- Landfill Gas Line
- Greenway (Paved)
- Service Roads (Gravel)
- Railroad (100’ ROW)
- Seawell School Rd (ROW is 15’ from edge of pavement)
- PSNC Natural Gas Pipeline (30’ ROW)
- OWASA Sanitary Sewers (30’ Easement/Corridor)
- Duke Energy Power Lines (60’ Easement)
- UNC-CH Ductbank
- UNC-CH ITS Telecom Cable
- Groundwater Treatment & Monitoring Wells

Carolina North Boundary
Bolin Creek West Conservation Area
Bolin Creek East Conservation Area
Crow Branch Conservation Area
Seawell School Rd
Homestead Rd
Martin Lutcher King Jr Blvd
1. Utility Corridors

The following corridors will be reviewed periodically with the respective utility or service provider (See Figure 1).

- Duke Energy
- PSNC Energy
- Orange Water and Sewer Authority (OWASA)
- UNC-CH Information Technology Services (ITS) – Direct buried telecom cable
- Southern Railroad – Assumed 100 foot right-of-way (ROW) centered on tracks
- North Carolina Department of Transportation (NCDOT) Seawell School Road ROW
- UNC-CH Electric Distribution Systems

C. Brief Site History

In 1940, the property was willed in part, to UNC-CH by Henry Horace Williams, professor of philosophy at the University from 1890 to 1940 and chairman of the department from 1890 to 1935. Other parcels acquired at later times comprise the remainder of CN. Subsequent to University acquisition, the property served a variety of support functions for the TOCH and the University. These activities were concentrated on the southeast corner of the site near the Martin Luther King Jr. Boulevard frontage at Municipal Drive.

The airport that was later named for Horace Williams came into being in the 1920s and was expanded during World War II. It has continued to the present times to serve as an operating general aviation airport. Some of the forested areas at CN were previously runways. Other forested areas were logged as recently as the 1970s, and some were working farmland into the 1970s. From the 1980’s to the present, tree removal on the CN property has been limited to trail development, trail maintenance, and airport operations maintenance.

Appendix A contains two historic images of the CN property surrounding the Horace Williams Airport. The 1938 image is a United States Department of Agriculture aerial photograph indicating contemporary agricultural practices. The 1975 image shows extensive clearing resulting from ongoing forestry activity.

A portion of the site was used by the TOCH as a municipal landfill. Although that operation ceased in 1973, the approximately 40-acre landfill is still a significant site feature. From 1973 to 1979, a one-quarter acre portion of the site was used to dispose of hazardous waste from the University’s research activities. The source material was removed in 2008, and on-going groundwater remediation continues at the site.

Current site uses include:

- the airport runway and tie-down areas
- Parking lots, office and shop space for UNC-CH's Office of Forest Management as well as storage for other University departments
- equipment and supply storage areas for UNC-CH maintenance operations, located adjacent to the former TOCH Municipal area
- a PSNC Energy natural gas pipeline crossing the northeastern portion of the parcel on a northwest/southeast axis
- an OWASA sanitary sewer line, located on the western portion of the parcel within the floodplain of Bolin Creek
- a north-south oriented Duke Energy electric transmission line located in the western portion of the parcel
- an ITS telecom cable located in the portion of the site east of Seawell School Road
- Numerous, heavily-used, public hiking and biking trails traverse the entire parcel
- storage parking
- Campus grounds maintenance mulching and materials supply
- construction storage, and support activities such as lay-down areas
- remediation of Airport Road Waste Disposal Area
- a north-south oriented electric duct bank located in the eastern portion of the parcel
- a north-south oriented landfill gas pipeline located in the eastern portion of the parcel
- a north-south oriented greenway coincidental to the duct bank alignment, proposed completion date April 2013.

The remainder of the property, called the CN Forest, is actively managed by the University. It retains its natural landscape, forest, streams and wildlife, making it one of the few expansive green spaces in Chapel Hill and Carrboro, North Carolina.

**D. Stewardship Vision Principles and Goals**

The University is committed to responsibly stewarding the open spaces and natural areas within the Conservation Areas and Limited Development Areas (subject to the 100 year and 50 year periods) of the CN property. The University will protect and preserve the physical and biological integrity of the environment, maximize ecosystem services inherent in those areas, and provide opportunities for education, research, and recreation.

**II. Management Approach**

The details of the Management Approach, per the Development Agreement, are in Appendix B.

**III. Institutional Framework**

**A. Overview**

The CN Forest is operated under the office of the Associate Vice Chancellor for Facilities Services.
B. Planning and Policies

The Facilities Planning Department is responsible for coordination of all CN capital planning efforts. This department is also responsible for master planning at CN. Facilities Planning and Construction project managers manage the design and construction of capital projects for the campus. Facilities Planning coordinates both the CN Working Group and the CN Steering Committee. Planning and policies for CN are reviewed and approved through the CN Steering Committee and the CN Working Group.

The CN Steering Committee is an advisory group comprised of the Associate Vice Chancellor for Facilities Services, Assistant Vice Chancellor for Facilities Operations, Planning and Design and University Architect, Executive Director of Real Estate Development, the Associate Vice Chancellor for Research and Development, representatives from Facilities Planning, Office of University Counsel, Office of Communications and Public Affairs, and the Provost office. The recommendations from this group are presented, as appropriate, to the Chancellor and the Board of Trustees.

The CN Working Group is an advisory committee comprised of University technical subject matter experts (operations, utilities, environmental permitting, landscaping, real estate and property management), Office of University Counsel, and Office of Communications and Public Affairs. Recommendations from this group are presented to the CN Steering Committee for review and approval.

As the need arises, input from other University parties will be included.

C. Operations

Operational policy and planning decisions are made by Grounds Services’ Office of Forest Management. Forest Management staff is responsible for routine maintenance and use of the Forest as a campus facility, volunteer coordination, and providing information to the community about uses, activities and development in and around the planned satellite campus.

The CN Forest & Trails Advisory Committee provides advice on policy, planning, and operations and gives direct feedback on recent maintenance efforts, user concerns or Forest events. This committee is updated on uses, activities and development in and around the planned satellite campus during quarterly meetings facilitated by the Office of Forest Management.

The CN Forest is managed and operated under the supervision of the UNC-CH Grounds Director. The University Forester reports to the Grounds Director, and the CN Forest Staff reports to the University Forester.
1. Operational Thresholds

Management of natural areas often requires quick and timely action to protect resources. There are a broad range of management concerns (e.g., level of invasive species infestation, forest floor fuel build-up and level of beaver activity) that can be allowed to occur without intervention. However, when certain thresholds or levels are reached, then proactive steps are needed to protect the resource. The process by which the acceptable thresholds for resource management are determined will be discussed, approved and implemented using the organizational hierarchy stated above including the input of the CN Steering Committee and/or the CN Working Group.

D. Public Relations and Communication

Public Information

The University communicates to the surrounding community by the following methods:

- Facilities Planning’s CN website: [http://carolinanorth.unc.edu/](http://carolinanorth.unc.edu/)
- CN Forest website: [http://carolinanorthforest.unc.edu](http://carolinanorthforest.unc.edu)
- CN Forest blog, CN Forest website: [http://carolinanorthforest.unc.edu/ForestNews](http://carolinanorthforest.unc.edu/ForestNews)
- CN events calendar, CN Forest website: [http://carolinanorthforest.unc.edu/Calendar](http://carolinanorthforest.unc.edu/Calendar)
- UNC-CH Office of Communications and Public Affairs
- News releases/media advisories from Office of Communications and Public Affairs
- CN Annual Report
- Semi-Annual and Annual reports to the TOCH Town Council
- Special presentations at Town Hall on current and proposed projects
- Participation in Chapel Hill 2020 comprehensive plan public process
- UNC-CH Public Information Meetings
- Neighborhood meetings with adjacent property owners as needed

These websites and other communication resources report on active permits and projects, environmental permitting, events and any other operational activity taking place on the CN property.

Direct Communication with Stakeholders

- Communications occur between the CN Forest Managers and CN Forest users on a daily basis, in person and through posted signs and information kiosks
- TOCH and University Joint Staff Work Group meetings

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• CN Forest Trails Advisory Committee (meets quarterly and meetings, agendas and supporting materials are listed on the calendar page of the CN Forest website at: http://carolinanorthforest.unc.edu/Calendar.

Internal University Communications

Currently, the University communicates internally through the following committees:
• CN Steering Committee
• CN Working Group
• Quarterly CN Coordination Committee (includes CN Working Group plus representatives from Public Safety, Engineering Information Services, Sustainability Office, and Energy Services)

E. Funding.
Operation for the CN Forest is funded primarily by the University. Supplemental funding for specific program initiatives beyond the scope of operations and maintenance is provided by donations from events held in the CN Forest.

F. Encroachments.
Encroachments will not permitted into the University’s CN property (or other University property). Encroachments may be discovered by the CN Forest Staff or may be reported by third parties, including the CN third party monitor for the CAs. Encroachments on the property will be handled through the UNC-CH Property Office.

IV. Management and Operations Tools
Landscape and recreation management is shaped by an overriding commitment to protecting water quality, maintaining habitat for wildlife, and reducing risks to human health and safety. Operational guidelines and management tools focus on maintaining or improving water quality and habitat for wildlife on the CN tract as described in the 2009 Development Agreement. As the metric of water quality is dynamic, so too are the guidelines and tools used to manage natural resources, which will change over time to reflect improvements or refinements in implementation.

With regard to management activities that will need to be carried out with some urgency, such as those for safety hazard reduction, fire protection/suppression, insect infestations and invasive species, certain levels of threat or threshold will trigger immediate, directed response. The process by which management thresholds are determined and approved is described in Section III.C. Operations. Thresholds will be further refined over time using adaptive management methods.
A. Natural Resource Protection & Restoration-Forest Management

1. Fire Management

   a. Wildfire management
   Wildfire is not common in the mixed hardwood and pine forests of the Piedmont, but does sometimes occur. The University manages the threat of wildfire based on information from many sources, including annual consultations with the North Carolina Forest Service (NCFS), periodic aerial inspections by UNC-CH and other third parties and University risk managers. Currently neither the interior areas nor the boundaries shared with neighbors are actively managed on the ground to prevent the spread of wildfire. The closest official responders to outbreaks of fire are the Towns of Chapel Hill and Carrboro.

   Protocol for the outbreak of fire at the CN Forest is as follows:

   If Forest Management Staff is on-site and fire control exceeds their capabilities, Staff calls 911. The 911 responder will notify UNC-CH Department Public Safety (DPS). While waiting, Staff opens locked gates as appropriate, and retrieves large format maps to give to first responders. The CN Forest Management Staff has command and control until relieved by DPS, Chapel Hill Fire Department (CHFD) or Town of Carrboro Fire Department (CFD). Command will notify DPS that the emergency operations plan is in effect. Introductions are made, and staff briefed on steps taken. The maps are handed over. Staff remains to provide information. The responding fire department will notify the NCFS. NCFS will respond with personnel and equipment. For Wildfire Management, the role of the NCFS is to assist, not control and command.

   If a fire event occurs when the CN Forest staff is not on site, the first responder to arrive has command and control until relieved by the Chapel Hill or Town of Carrboro Fire Department. The gates will be opened by whatever means are necessary, and the responders will determine location of fire and their preferred route for containment. The CHFD or CFD will notify the NCFS, and the NCFS will respond with personnel and equipment.

   For arson events, the protocol is the same as the two above scenarios, with the additional step of investigation by UNC-CH Public Safety and the NCFS with assistance from the North Carolina State Bureau of Investigation.

   b. Controlled burning
   Controlled burning does not currently take place in the CN Forest. It could be considered in the future to facilitate research or land management needs. The feasibility and need for controlled burning will be determined by the management protocol described in III.B. Planning & Policies and III.C. Operations, along with other parties as deemed appropriate.
2. Integrated Pest Management (IPM)

IPM is a sustainable approach to managing pests (insects, animals, invasive herbaceous or woody plants) by combining biological, cultural, physical and chemical tools in a way that minimizes economic, health and environmental risks.

a. Forest Insect Monitoring and Control

Insect activity and infestations are monitored in the following ways:

The CN Forest staff monitors insects during the course of daily operations (observation of canopy from below) and during UNC-CH sponsored annual over-flights (canopy from above). Staff also receives observations from third-party reports. Third-party reports can come from several sources including:

- fly-overs by Duke University during their Duke Forest insect monitoring
- observations during the annual inspections of the CAs by the third-party monitor (canopy from below),
- the NCFS’s Orange County Ranger (canopy from above)
- visitors to the Forest (canopy from below).

The next step is ground verification of the observation or report. The process includes evaluation of the following questions:

- What type of insect infestation is occurring?
- What is the intensity and magnitude of the infestation?
- Based on the number of infested trees per acre and type of insect, is a response required? If a response is required, will the response action be proactive or reactive, or a combination of both?
- What are the consequences of action versus non-action?
- Is this a hazard or benefit to the ecosystem?
- Is this a hazard to recreation?
- Is this a hazard to neighboring parties?
- What does control require?
- Will in-house or contracted services be required?
- What is the environmental impact of the response?
- What is the cost of the control?
- Is funding available for control?

Once the above questions have been answered by the CN Forest staff and discussed internally with appropriate University personnel, appropriate action will be undertaken if determined to be necessary.

b. Invasive Herbaceous or Woody Plant Monitoring and Control

The CN Forest staff monitors for invasive plant infestations through observation during daily operations. They also receive reports from third parties, including visitors to the Forest. The CN Third Party Monitor Annual Report on the CAs may also contain information on invasive species.

Eradication of all invasive herbaceous and woody plants in the CN Forest is not possible under the current funding and staffing scenario. Under the current management plan, control and
suppression are the strategies employed to control invasive plant species so that wherever possible, native plant species are selected and encouraged toward dominance.

Current conditions in the forest dictate control and suppression as a primary priority. Restoration and installation of native plant species occur whenever opportunities arise, usually during the course of other activities (e.g., trail monitoring and maintenance). Specific comprehensive invasive species management is currently under development.

Invasive species currently targeted for control and suppression efforts include (but are not limited to) Wisteria, Tree-of-Heaven, Mimosa, Eleagnus, Microstegium, Privet and Bamboo.

Primary references used for invasive plant species control include:


Invasive plant control methods are evaluated for safety and environmental impact. Because of the variety of terrain, soils, land use and vegetation types, an integrated approach is used, which includes both mechanical and chemical control methods. All chemical control products used are approved by the Environmental Protection Agency and appropriate state agencies and are applied by licensed applicators.

3. Ecological Restoration

Ecological restoration, the practice of renewing and restoring degraded, damaged or destroyed ecosystems and habitats, is currently undertaken incidental to trail maintenance, on a small scale, in order to make the trails more sustainable. The University’s intent is to develop long-term strategies for ecological restoration at CN. These strategies may be project- or opportunity-driven. The University’s plan for ecological restoration at CN will be refined in subsequent iterations to the Land Stewardship Policy.

4. Wildlife Management

Wildlife management on the site is composed of several general initiatives. The first initiative is the protection of wildlife and their habitat from disruption. The Development Agreement limits disturbance in the ecologically important CAs. For example, when it is necessary to relocate single-track trails, they are relocated so that existing habitat is minimally disturbed.
The second initiative is enhancement of habitat as opportunities arise. Birding is a popular pursuit at CN, and bird habitat and populations are supported by CN wildlife management efforts. An example of habitat enhancement at the CN Forest is the practice of leaving dead trees standing for nesting habitat. Another example of habitat enhancement is the creation of amphibian habitat by creating shallow water pools adjacent to trail maintenance projects. Forest Management has created and supported native wildlife species habitat including but not limited to salamanders, turtles, snakes, predatory birds and songbirds through management of the trail system and forest canopy. Additional strategies are being developed to promote wildlife diversity. The University will describe additional strategies in future revisions to the Land Stewardship Policy.

The last general initiative involves the control of wildlife which poses a threat to public safety, public infrastructure or the environment. CN Forest Management has identified the following as nuisance animals: deer, coyote, beaver and rabid animals.

**Deer and Coyote**
The University will not act unilaterally on controlling these two nuisance species. The University will participate in control efforts for these two species only as part of a regional program involving both neighboring towns, Orange County, and the North Carolina Wildlife Resources Commission.

**Beaver**
Beavers are tolerated until their activities threaten existing infrastructure (service roads, monitoring wells and sewer lines, etc.). When beaver activity threatens infrastructure, the University contracts with a licensed wildlife removal professional to have the beavers removed from CN.

**Rabid Animals**
911 will be called in the instance of a report of a rabid animal at CN.

**Hunting**
Hunting, taking and retrieval is not permitted on the CN property.

5. **Research**
Prior to any research being conducted in a Protected Area by any University or non-University personnel, a proposal outlining the nature and scope of the research project must be submitted to the Associate Vice Chancellor for Research for review and approval. Research projects must also be consistent with applicable University policies, the Development Agreement, and applicable law. An internal review process for Research, which will include appropriate University resources, will be developed.
6. Trails, Roads, Greenways, Right-of-Ways and Airport Maintenance

Trails, roads, greenways, the airport, rights-of-ways and utility corridors are maintained as described below. The University reserves the right to temporarily close trails, roads, and greenways as needed.

a. Trails

Trail maintenance is performed as described on the CN Forest website under Trail Management at: http://carolinanorthforest.unc.edu/TrailManagement. In addition to trail maintenance, site maintenance in the CN Forest includes the installation and maintenance of site furniture including benches, trash and recycling receptacles, dog waste containers, information kiosks, signs and gates. Minor repairs and maintenance are performed by the CN Forest Staff. Major repairs and improvements are performed by contract service providers. The singletrack trail system at CN has been created over time by the local community. Trail layout and alignment has focused on the user experience at the expense of ecosystem services. CN's Office of Forest Management maintains the existing trail network, improves and relocates alignments when necessary, and creates new trails as appropriate.

In addition to regular trail maintenance tasks such as brushing or de-berming, damaged or degraded trail segments may be altered to a more sustainable alignment including but not limited to protecting ecological assets and their attributes, minimizing ongoing upkeep, reducing the use of site-specific structures, and enhancing the recreational experience.

As the trail system evolves under the active management program, CN's Office of Forest Management will create new singletrack trails and trail segments to protect ecological assets and their attributes in the Limited Development Areas, form diverse, managed, intersecting loops and spurs and enhance the recreational experience.

Single-track trails are subject to closure when conditions are too wet and trail use will cause degradation of the trails, erosion and sedimentation, and degradation of water quality, etc. Forest Management will close the single-track trails until such time as conditions are dry enough to return them to use. Signs about trail conditions are posted at the major trailheads, online and at the Forest's Facebook page at: http://carolinanorthforest.unc.edu/ForestNews. During the periods when the single track trails are closed, the service roads and utility corridors are still open for recreational use.

b. Service Roads

The service roads in the CN forest are gravel surfaced roads. The existing service roads are shown in Figure 1. CN Forest staff perform minor repairs to Service Roads. Major repairs, including re-grading and resurfacing, are accomplished through contracted services.
Within the Conservation Areas, the CN Development Agreement stipulation for CAs allows maintenance of existing service roads and prohibits relocation or widening of existing service roads as well as creation of new service roads. In the Limited Development Areas and Development Areas, activities beyond maintenance of the existing service roads are subject to the applicable sections of the Development Agreement.

c. Multi-use Paths (Greenways)
Any greenway at CN will be maintained as a 10-foot-wide asphalt path with 2-foot wide shoulders on either side of the 10-foot path and will meet the American Association of State Highway and Transportation Office (AASHTO) standards. Daily greenway maintenance, including minor repairs, will be accomplished by the CN Forest Staff. Major repairs will be performed by contracted service providers.

d. Rights-Of-Way (ROWs)
ROWs and utility corridors (including road, utility and, railroad corridors) are maintained by the ROW holder or utility owner or as needed by the CN Forest Staff. These corridors are identified on Figure 1.

e. Airport Operations
The University will periodically remove trees on the CN property for routine airport operations for the Horace Williams Airport. Prior to removing any trees that are outside the fence surrounding the Horace Williams Airport, the University will provide advance notice to the public (e.g., by posting information on the CN website, by issuing a press release, or other suitable means of public notice). In addition, in the event of tree removal in a CA, prior to removing the trees the University will provide advance notice to and will consult with its CN third party monitor.

7. Recreation

a. Public Use by Individuals
Recreational use of CN by the University and the local communities is allowed and encouraged. The site is open to the public in accordance with the rules and regulation included in Appendix B.

b. Public Use for Organized Events
Organized events are permitted at the site given that the following conditions are met:

- All event organizers and participants must comply with the general rules and regulations of the CN Forest.
- Events involving sizeable groups and/or fees and/or sponsors must submit a written proposal, (including and event description, proof of insurance, and CN's Office of Forest Management Indemnity Waiver) and follow the guidelines and procedures as established by the CN Office of Forest Management for organized public events.
- Proposals will be reviewed, approved and managed by the CN Office of Forest
Management.
- Events must follow the CN event rules and regulations (see Appendix C).

To limit the impact of organized events on the trails and adjacent natural areas, the following restrictions are in place:
- Maximum Group Size – For this iteration of this plan, the maximum number of participants allowed is 300. This restriction helps to protect the condition of the trails and adjacent natural areas.
- Wet Weather Postponement – Events must be postponed if, in the opinion of the CN Forest Management Staff, conditions are less than satisfactory for such an event. When trails are muddy, they are susceptible to erosion and widening by users. This restriction protects the trails and adjacent natural areas.
- No Site Modifications – Events at the CN Forest must leave the site in the condition it was found. No land disturbance, vegetation removal or other modifications may be made for an event.

c. University Use
- The UNC Cross Country Team (NCAA Group) uses the Forest regularly, year-round for training (but has not hosted an event here yet).
- University events will follow the same process described for public events, and exceptions to these processes will be evaluated on a case-by-case basis.
- Any future, on-going recreational use in the Protected Areas that requires site modifications will be handled through and approved by the University's Facilities Planning Department and the Office of Forest Management, and will meet the requirements of the Development Agreement.
- Intramural recreation fields planned for CN will be in the Development Area, and are therefore not covered by this Land Stewardship Policy.

8. Public Safety
CN Forest is under the police jurisdiction of UNC-CH Public Safety, who work in conjunction with the Chapel Hill and Carrboro police departments. Vandalism resulting in damage to the property will be reported to UNC-CH Public Safety and a report will be filed.

Literature Cited


Caldwell, NJ.

Glossary

Adaptive Management - Adaptive management is a tool modeled on the scientific research process which requires a measurable objective, monitoring to determine the effectiveness of the management practice in achieving the objective, evaluation to determine if the objective is being reached and adaptation based on the results (Williams et al. 2009).

Conservation Areas - This term refers to the Conservation Areas as defined by the Development Agreement between the TOCH and The University of North Carolina at Chapel Hill, July 2009, and as modified by Minor Modification Request 2012-1, approved by the TOCH on February 10, 2012.

Ecosystem Services - Ecosystem services are the benefits people obtain from ecosystems. These include regulating services that affect climate, floods, disease, wastes and water quality; cultural services that provide recreational, aesthetic and spiritual benefits; and supporting services such as soil formation, photosynthesis and nutrient cycling. The human species, while buffered against environmental changes by culture and technology, is fundamentally dependent on the flow of ecosystem services. (taken from United Nations 2005 Millennium Ecosystem Assessment Report).

Integrated Pest Management (IPM) - IPM is a sustainable approach to managing pests (insects, animals, invasive herbaceous or woody plants) by combining biological, cultural, physical and chemical tools in a way that minimizes economic, health and environmental risks (National IPM Network).

Multi-use Path (also known as a Greenway) - This trail supports a wide range of activities, including but not limited to, biking, walking, running, dog walking, roller skating and hiking. This type of trail is paved.

Operational threshold - A broad range of management concerns (e.g. level of invasive species infestation, forest floor fuel build-up, level of beaver activity, etc.) that are allowed to occur without intervention, until a previously determined level is reached, then action is taken to reduce the level.

Service Road - There are existing graveled roads with drainage shoulders throughout the CN Forest. These roads accommodate maintenance and risk reduction activities as well as multi-use recreational activities. All of the service roads in the CN property are regularly used for community access to the single-track trails and for CN Forest Staff access to land management activities. Maintenance vehicles include those for forest management, emergency response, fire control and utility maintenance.

Single-track Pedestrian-only Trail - This trail is dedicated to walking or hiking only. No running, dogs or bikes are allowed on this type of trail. Currently only one such trail, the Nature Observation Trail, is located at CN, in the Bolin Creek West Conservation Area.
Single-track Trail - This is a single-track multi-use recreational trail. This trail is narrow enough to require single-file passage. Trail surfaces are natural, typically earth and duff, and follow existing topography. Single-track trails at CN were created by the community over the past 30 years.
APPENDIX A – Carolina North Historic Maps
APPENDIX B – Carolina North Management Approach
I. Management Approach

A. Summary of Restrictions

Per the Development Agreement, land-disturbing activities within the Protected Areas are restricted. The degree of restriction is higher in the CAs and the 100 Year Limited Development Area than in the 50 Year Limited Development Area. Each of these areas has its own set of allowed activities.

1. Conservation Areas

The boundaries of the CAs were originally delineated in the Development Agreement as depicted in Exhibit E of that document. Further refinement of those area boundaries was performed in 2012, as shown in Figure 2. Restrictive covenants have been placed on the CAs.

As set forth in the Development Agreement, restrictive covenants are intended to:

“…retain the applicable land and water areas predominantly in their natural, scenic or open condition. In general, the conservation easement(s) shall forbid or limit any or all (i) construction or placing of buildings, roads, signs, billboards or other advertising, utilities or other structures on or above the ground, (ii) dumping or placing of soil or other substance or material as landfill, or dumping or placing of trash, waste or unsightly or offensive materials, (iii) removal or destruction of healthy native trees, shrubs or other vegetation, unless done as a component of an established forest management plan, (iv) excavation, dredging or removal of loam, peat, gravel, soil, rock or other mineral substance in such manner as to affect the surface, (v) surface use except for forest or outdoor recreational purposes or purposes permitting the land or water area to remain predominantly in its natural condition, (vi) activities detrimental to drainage, flood control, water conservation, erosion control or soil conservation, or (vii) other acts or uses detrimental to such retention of land or water areas. The conservation easement(s) shall allow the University to undertake appropriate research and educational activities within the area covered by the easement. The conservation easement(s) may allow for continued sustainable trail maintenance. Maintenance shall be deemed to include minor repair, restoration, or relocation of existing trails.” Continuing in that section “…. All trail work shall adhere to the guidelines for sustainable single track as set forth by the International Mountain Bike Association. The conservation easement(s) shall not allow construction of new trails (except for potential greenways and paths that are located and approved by the Town Council pursuant to Section 5.16 of this Agreement). The conservation easement(s) shall not automatically preclude trail and road crossings that are consistent with the provisions of the Resource Conservation District provisions of Section 3.6.3 of the LUMO and the terms of this Agreement. The conservation easement(s) shall identify and allocate maintenance and enforcement responsibilities for the area covered and specify how that activity will be funded.”
2. Limited Development Areas

The Limited Development Areas (Figure 2) are the areas of the CN property that are not in the CAs or the Development Area. There are fewer restrictions on activities allowed in the 50 Year Limited Development Area than in the CAs and the 100-Year Limited Development Area. A list of the main restrictions, quoted from the Development Agreement, are provided below.

“Except as specifically provided within this Agreement no development that involves the construction or use of a building shall be undertaken prior to July 1, 2059 within the limited development area. In addition, except as specifically provided within this Agreement, no development that involves the construction or use of a building shall be undertaken within the area identified as Area 6B (approximately 53 acres) in Exhibit E prior to July 1, 2109. This restriction on development within the limited development area shall not be applicable to uses identified as permitted uses for the U-1 zoning district. For the purposes of this section, the term "building" includes all structures or edifices covering a space of land, usually covered by a roof, more or less completely enclosed by walls, and used for habitation, shelter, storage, trade, manufacture, religion, business, education, or the like.

c. Notwithstanding Section 4.31 of this Agreement, in the event this Agreement is terminated prior to its twenty (20) year term or prior to the completion of construction of three (3) million square feet of building floor area, then the restrictions identified in Section 5.5.2 of this Agreement for the limited development area shall extend for two and one-half (2.5) years for each year this Agreement was in effect. Notwithstanding Section 4.31 of the Agreement, in the event this Agreement is terminated prior to its twenty (20) year term or prior to the completion of construction of three (3) million square feet of building floor area, the restrictions identified in Section 5.5.2 of this Agreement for the area identified as Area 6B in Exhibit E shall extend for five (5) years for every year this Agreement was in effect.”…

d. The following land uses and activities within the limited development area that do not involve the construction or use of a building shall be subject to Town review and approval by the Manager (using the appropriate form for approval acceptable to the Town Manager) and shall only be undertaken in a manner consistent with the terms of this Agreement:

1) Roads with exterior connections (construction);
2) Roads with exterior connections (operation);
3) Work in any public right of way;
4) Surface parking areas with greater than 50 spaces; and,
5) Any work in a Resource Conservation District (as defined by the LUMO) that is not within a conservation area as defined by Section 5.5.1 of this Agreement.

In addition, within the Area identified as Area 6B in Exhibit E, the land uses and activities undertaken prior to July 1, 2019 shall be consistent with those permissible under the conservation easement(s) provided for in Section 5.5.1 of this Agreement.
Carolina North Boundary Development Area (20 year) Approved for development by DA
Development Area (50 year) - Planned for development between 2029-2059
Limited Development Area (50 year) - No development before 2059 per DA
Limited Development Area (100 year) - No development before 2109 per DA
Conservation Areas - Perpetual Restrictive Covenants Apply

Figure 2: Overview of Carolina North Area Types specified in Development Agreement

<table>
<thead>
<tr>
<th>Type of Area</th>
<th>Description</th>
<th>Area (ac)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carolina North Property</td>
<td></td>
<td>947</td>
</tr>
<tr>
<td>Development Area (20-year)</td>
<td>Approved for development by DA</td>
<td>133</td>
</tr>
<tr>
<td>Development Area (50-year)</td>
<td>Currently a Limited Development Area; Planned for development between 2029-2059</td>
<td>95 (95+133 = 228)</td>
</tr>
<tr>
<td>Limited Development Area (50-year)</td>
<td>No development before 2059 per DA</td>
<td>408</td>
</tr>
<tr>
<td>Limited Development Area (100-year)</td>
<td>No development before 2109 per DA</td>
<td>53</td>
</tr>
<tr>
<td>Conservation Areas</td>
<td>Perpetual restrictive covenants apply</td>
<td>258</td>
</tr>
</tbody>
</table>
e. The following land uses and activities within the limited development area that do not involve the construction or use of a building shall be undertaken in a manner substantially consistent with the terms of this Agreement.

The University shall include a report of all such activities undertaken in the previous year in the Annual Report required by this Agreement:

1) University chilled water, steam, electric duct bank, water and telecommunication lines;
2) University reclaimed water line;
3) Maintenance and improvements to existing utility lines;
4) Stormwater lines and improvements;
5) Stormwater structures;
6) Public utility lines traversing site (e.g., Duke Energy, PSNC Energy);
7) Utility structures without a building (e.g., electrical substation);
8) Alterations to utility equipment (e.g., generator, other mechanical components);
9) Site storage and construction staging areas;
10) Stream restoration projects;
11) Greenways and other paved trails;
12) Public art; and,
13) Site clearing for any other purpose, provided there is no more than one acre of clearing for any individual project and the total amount of cumulative clearing over the life of this Agreement is consistent with the maintenance of tree canopy coverage for the Carolina North Tract as provided in Section 5.21.1 of this Agreement.

f. The land uses and activities in the limited development area that are listed below and that do not involve the construction or use of a building are not subject to this Agreement, provided any individual undertaking of the activity does not involve land clearing or grading of more than 20,000 square feet and the total amount of cumulative clearing over the life of this Agreement is consistent with the maintenance of tree canopy coverage for the Carolina North Tract as provided in Section 5.21.1 of this Agreement. The University shall include a report on all such activities undertaken on the Carolina North Tract in the previous year in the Annual Report required by this Agreement.

1) Conditions existing as of date of this Agreement (which are generally depicted on Map 1 in Exhibit H);
2) Alterations (but not expansion) in existing parking lots, including repaving, replanting for stormwater mitigation, or changing impervious to pervious pavement;
3) Roads, internal service without exterior connections and not designed for vehicular circulation to serve buildings within the developed area of Carolina North;
4) Exterior tennis and basketball courts;
5) Athletic facilities and events that are not buildings and that do not involved land clearing or grading of more than 20,000 square feet;
6) Gazebos and other open air shelters, parks, children’s play areas, passive recreation features, and park site furnishings;
7) Unpaved trail construction/maintenance (e.g., volunteer work on paths, harvesting);
8) Memorial gardens;
9) Kiosks and benches;
10) Incidental parking areas, provided each such parking area includes no more than 50 spaces, the cumulative number of parking places in the limited development area does not exceed 300 parking places, and all such parking is consistent with the provisions of Section 5.8 of this Agreement;
11) Site furnishings (e.g., recycle containers, fixtures, blue lights);
12) Support facilities for special events (e.g., Tar Heel town, concerts);
13) Demolitions;
14) Landscaping activities; and,
15) Community gardens.”

3. Wetlands, Streams, Buffers, Floodplains and Steep Slopes

Many natural resource features or areas in the Protected Areas are protected by Federal, State and local government regulations and ordinances. Proposed activities within or near these protected resources will be coordinated with the Environmental Affairs group within the University’s Environment, Health and Safety (EHS) Department to ensure compliance with all regulations. Any proposed activity will reference the Section 404/401 Individual Permit issued by the U.S. Army Corps of Engineers (USACE) and the 401 Water Quality Certification issued by the North Carolina Division of Water Quality (NCDWQ) for CN in 2011, to ensure compliance with water quality permits.

Protected resources include:

- Wetlands that are protected by the Clean Water Act, and impacts to them are regulated by the USACE and the NCDWQ.
- Streams and other surface water bodies that are protected by the Clean Water Act, and impacts to them are regulated by the USACE and the NCDWQ. Additionally, the Towns of Chapel Hill and Carrboro have regulations regarding streams.
- Stream buffers that are protected by NCDWQ regulations per the Jordan Lake Rules. In Chapel Hill, the stream buffer is referred to as the Resource Conservation District (RCD) and is described in the TOCH Land Use Management Ordinance (LUMO).
- Floodplains that are protected by Federal Emergency Management Agency regulations, administered by the North Carolina Flood Mapping Program via the State Construction Office.
- Steep slopes (>10%) have protections under the Towns of Chapel Hill and Carrboro development ordinances.
Figure 3 depicts the general location of these regulated areas at CN. This map should be used as a general guide, but specific projects must be discussed with EHS to ensure that the most current mapping and regulatory implementation policies are referenced.

4. Landfill and Airport Road Waste Disposal Area Remediation
The former TOCH municipal landfill is currently under study to determine the remediation plan.

The Airport Road Waste Disposal Area is currently undergoing ground water remediation and monitoring. No stewardship activities shall be planned that would interfere with or preclude current or future remediation activities at either the landfill or the Airport Road Waste Disposal Area.

B. Management Approach Framework

1. Conservation Areas
The management approach for the CAs is in accordance with the guidance provided by the 2009 Development Agreement and Restrictive Covenants. The management approach for the 100-Year Limited Development Area will be one that is in accordance with and follows the guidance in the 2009 Development Agreement. The approach will be crafted such that the vision for the property is attained, with the highest priority given to the preservation of valuable natural resources and the enhancement of ecosystem services.

2. Limited Development Areas
The management approach for the 50-Year Limited Development Area will be to balance multiple uses such as University research, athletics, recreation and ecosystem services.

3. Management Processes
The University will continue to manage the CN site as a mixed use area. Over time it is recognized that the array of uses may change, but the uses will always conform to the stipulations in the Development Agreement. The University will use Adaptive Management as one of the methods for managing the CN Forest.

C. Adaptive Management
Adaptive management as applied to the CN Forest means managing ecological resources appropriately toward an outcome that sustains or improves current conditions of the landscape.

Adaptive Management is an iterative process that has been employed by state, federal and non-profit land management entities over the past 20 years. Adaptive management incorporates lessons learned over time and practice into the management of ecological resources. Specific to particular sites and specific issues, for example suppression of invasive plant species within the
Figure 3: Carolina North Natural Areas with Regulatory Protections

Legend
- Development Area (50-year)
- Development Area (20-year)
- Limited Development Area (100-year)
- Limited Development Area (50-year)
- Slopes >10%
- Carrboro & TOCH Stream Buffers (15-150')
- DWQ Jordan Lake Stream Buffers (50')
- FEMA Flood Hazards
- Perennial Streams (Town)
- Intermittent Streams (Town)
- Ephemeral Streams (Town)
- Perennial Stream (DWQ/COE)
- Intermittent Stream (DWQ/COE)
riparian zone, various control strategies standard to professional best practice will be employed and then evaluated for their efficacies. Strategies that prove to be most effective can then be adapted to other sites with similar characteristics and control issues. Outcomes of these management decisions will be incorporated into operational routines and this document during the periodic Land Stewardship Policy updates. Such best management practices promote flexible decision-making to help ...“meet environmental, social and budgetary goals, increase scientific knowledge and balance the needs of stakeholders.”
APPENDIX C – Carolina North User Guidelines
Welcome to the Carolina North Forest!

• No new trails are to be blazed, cut or otherwise established.

• Don’t block the gates! Access to the Forest’s road network is for emergency use & land management operations.

• Pets MUST be leashed. Please clean up after your pet.

• This area is an ecological & wildlife preserve. Hunting, trapping, fishing, retrieval & gathering activities are not allowed.

• Removal or destruction of any object (plant, animal, rock or artifact) is prohibited.

• Possession or consumption of alcoholic beverages is not allowed in the Forest.

• Camping is not permitted in the Forest.

• No fires or fireworks are allowed in the Forest.

• Weapons are prohibited in the Forest, including air rifles & paint guns.

• No Motorized Vehicles. Vehicles (cars, trucks, motorcycles, all-terrain, off-road & utility vehicles) are not allowed in the Forest.

• The Forest is open from dawn until dusk daily, year-round.

Thank You for Reading and Cooperating!
Enjoy Your Experience!

Questions, concerns or suggestions? Contact Carolina North Forest Management forestmanager@fac.unc.edu
APPENDIX D – Information for Conducting an Event at Carolina North Forest
Holding An Event In The Carolina North Forest

The Carolina North Forest is owned and maintained by the University of North Carolina at Chapel Hill.

Carolina North Forest Management provides these guidelines to ensure that the Forest environment, user access, and continued recreational activity continue. It is to the mutual benefit of the University and community groups seeking to host their events in the Forest to cooperate and communicate to insure that the event is as successful as possible and can return to the Forest in the future.

While no document can capture all of the details, logistics or concerns for every possible event proposed, these guidelines have been assembled based on prior proposals and experiences associated with event management in the Forest.

*Please take the time to read this entire document and its attachments.*

Any event will require a written proposal submitted to Forest Management when:

- There will be more than 30 participants.

  AND

- It will be sponsored, promoted, published, or advertised.

  AND

- It is open to the public.
AND

- A registration fee is required from participants.

If the proposed event meets any combination of the criteria listed above, a written event summary must be reviewed by Forest Management and other University administrators before permission to hold the event is given.

Please allow 3 weeks for review, negotiation, and approval prior to publicizing the proposed event.

Again, it is to the mutual benefit of the University and community groups seeking to host their events in the Forest to cooperate and communicate to insure that the event is as successful as possible and can return to the Forest in the future.

Moving forward with advertising and publicity without written permission of Carolina North by Forest Management may result in extraordinary scrutiny of event details, up to an including no future permission to hold the event or similar events in the Carolina North Forest.

Event proposals are subject to the following caveats:

- All events - including their organizers and participants - must comply with the published and posted User Guidelines for the Carolina North Forest (Attachment B).
- Non-event public access to the trails must be maintained during the event.
- Singletrack trails, service roads, trailheads and parking facilities cannot be 'reserved', 'closed' or blocked for exclusive use by the event.
- A plan to avoid user conflicts must be in place before the event begins.
- There are trash cans located at designated access points; event organizers are expected to provide their own trash cans for staging areas, aid stations, etc.
- Water, power, and toilet facilities are not available in the Forest; event organizers are responsible for providing these accommodations.
- All events will be held between dawn and dusk; there will be no nighttime events.
- NO SUNDAY EVENTS.
- Organizers are responsible for the costs of operation of the event, including cost recovery for staff support before, during and after the event.
- If the proposed event includes third-party vendors (clothing, souvenirs, etc.), vendors must comply with all permits and permissions required by the University, Town and state of North Carolina. Vendors must provide Forest Management with proof as necessary prior to the day of the event.
• Other than refreshment for event staff and participants (water, sport drinks, or fresh fruit), no food, beverages, or alcohol are allowed at any event.
• Failure to comply with this process, these event guidelines or significant issues (injuries, incidents, etc.) may affect future event proposals from all user groups.

Written Proposal

• Event Name
• Event Summary
  o Competitor categories (if any)
  o A registration/enrollment maximum should be clearly stated, including late and day-of registrants.
• Financial Information
  o Who will bear the costs of promoting and holding the event
• Proof of Insurance
• Sponsor List
• Signage and Information
  o Prior to the event
  o Day of event
• Date/Time
  o Setup time
  o Event schedule
  o Final Forest departure time
• Parking:
  o CNF Staff will identify parking areas and provide cones to help direct vehicular traffic; event organizers are responsible for traffic control.
• Rain Date
• Pre-event or Follow-up Workday Date
• Course Map
• Locations of Aid Stations
  o Description of what will be at Aid Stations
• Course marking strategy
• User conflict prevention strategy
  o The Forest and trails cannot be reserved for the exclusive use of one group over another, especially during official events. All trails - including those used for the event - must remain open and accessible during the event.
  o ‘Course marshals’ may be stationed strategically around the course to inform and avoid any conflicts.
• Facility planning
• Restrooms
  - Number
  - Location(s)
• Trash & recycling
  - All event debris and trash must be removed immediately at the conclusion of the event.

• Emergency response plan
  - Carolina North Forest Management retains the option to require either ‘on-site’ or ‘on-call’ emergency medical response depending on the scope and scale of the event.
  - Organizers and participants involved in the event with medical and/or emergency response training will not be considered ‘on-site emergency medical response’.

**Deliverable to the Carolina North Forest Land Management & Trail Information Office prior to the event**

- CNF’s Indemnity Waiver signed by each participant (ATTACHMENT A)
- CNF’s Participant Guidelines signed by each participant (ATTACHMENT B)

**Fees**

- Carolina North Forest Management requires reimbursement for the costs of operation for the event.
  - Costs cover staff and any necessary equipment for the duration of the event.
    - Previous event costs have been approximately $350.
    - School fundraising events can be exempted from the cost recovery fee subject to the following caveat:
      - A letter from the school, signed by a school administrator verifying the event details.
      - Contact information for that school administrator.
      - Contact information for the student/parent organizers

**What Participants Need To Know**

- No personal listening devices (iPods, Walkman, headphones, etc.). Participants must be able to hear and respond to other Forest users.
- Please use the facilities provided by the sponsoring organization; do not use the Forest as a personal toilet.
• Human and animal companions are welcome and expected to comport themselves responsibly. Animal companions must be on-leash and under control during the event.
• Organizers, participants, and their companions may be asked to leave the area immediately if they fail to comply with requests to control themselves or their animal companions.
• The trails cannot be ‘closed’ for the event’s duration. There may be other visitors in the Forest at the time of the event. Please be considerate of other Forest users.

**Forest Management’s Responsibilities**

• If provided by sponsoring organization, Forest Management staff will post event information in the informational kiosks in and around the Forest as well as the Carolina North Forest web site.
• Carolina North Forest staff will be on-site for the duration of the event.
• Event communications:
  o UNC will supply one (1) two-way radio for communication between event organizers and CNF staff.

**Trail Conditions**

During the proposal and review process, every effort will be made to preserve the integrity of the existing trail system and anticipate the impact of the event on the trail system.

All events must accept trail conditions and trail lines as they exist at the time of the event. No new trail, alternate lines, re-routes, or cut-throughs may be cut or blazed.

**Event Postponement**

Carolina North Forest Management reserves the right to postpone the event if, in the opinion of the Forest Management Team, Forest and singletrack trail conditions will not be able to withstand impacts associated with the event, up to and including the day of the event.

The event may need to be postponed or re-scheduled until conditions improve. A pre-event work session can be coordinated to address any identified issues.

If, in the opinion of Carolina North Forest Management, there is or will be a significant impact to the trail system or the Forest environment as a result of the event, it is expected that the sponsoring organization will coordinate a follow-up work day within 14 days of the event to address any issues identified as a consequence of the event.
Course Marking

Courses may be marked using the following devices:

- Pin flags
- Surveyor’s tape
- Flour or chalk lines on the trail surface
- Traffic cones
- Balloons
- Deadfall

‘Caution’ tape across the Forest roads and singletrack trails (or in any way closing, obstructing, or otherwise preventing access to them) is prohibited.

Posting event flyers or course markings on trees is prohibited. Any found will be removed.

All course markings must be removed immediately after the conclusion of the event and prior to departure from the Forest.

Contact Information

Greg Kopsch, Forest Manager

(919) 883-8930

forestmanager@fac.unc.edu
ATTACHMENT A

Carolina North Forest

Individual Release and Indemnity Agreement

In consideration of my participation in the activities described below, I hereby release, hold harmless, and forever discharge The University of North Carolina at Chapel Hill, its officers, employees and agents, from any and all liability, claims, demands, actions and causes of actions whatsoever arising out of or relating to any loss, property damage, or personal injury, including death, that may be sustainable by me or to any property belonging to me that may arise out of my participation in the activities described below.

I hereby give permission for the staff of the University of North Carolina at Chapel Hill to seek emergency assistance (call 911) and while awaiting the arrival of emergency personnel, give emergency medical attention (make me comfortable and apply basic first aid and/or CPR) in the event of accident, injury, or illness for the duration of my activity in the Carolina North Forest. I will be responsible for any and all costs of such medical attention and treatment.

I am fully aware of the risks and hazards associated with activity in the Carolina North Forest. These risks include, but are not limited to, falls, cuts, breaks, bites, allergic reactions, and strains. I hereby elect voluntarily to participate in said activities and fully acknowledge that the activities may be hazardous to me and my property. I voluntarily assume full responsibility for any risk of loss, property damage, or any personal injury, including death that may be sustained by me or any loss or damage to property owned by me as a result of being engaged in such activity.

This agreement is binding on myself, my heirs, assigns, and personal representatives.

This the ___ day of ______, 20___

____________________________________

Participant

Specific activity:
ATTACHMENT B

Welcome to the Carolina North Forest!

Participant Guidelines

Be Aware & Considerate Of Other Users.

Trail Courtesies - Bikers must be aware of hikers & joggers. Hikers & joggers using bike trails must yield right-of-way to bikers.

No personal listening devices (personal music players like iPods, Walkman, headphones, etc.) during the event. Participants must be able to hear and respond to other Forest users.

Leave No Trace – Please don’t litter. Preserve what’s here for the benefit of future users! Trees, brush & grasses are not to be cut, painted, scarred or otherwise damaged.

Don’t use the Forest as a toilet. Please use the facilities provided by the sponsoring organization.

No Motorized Vehicles - Motor vehicles (cars, trucks, motorcycles, all-terrain, off-road & utility vehicles) are not allowed in the Forest.

Don’t Block The Gates - The Forest Road network is for emergency use & land management operations.

Pets MUST be leashed. It’s the law! Please clean up after your pet.

No Alcohol - Possession or consumption of alcoholic beverages is not allowed in the Forest.

Camping is not permitted in the Forest.

No fires or fireworks are allowed in the Forest.

Firearms are prohibited in the Forest, including air rifles & paint guns.

Enjoy Your Experience!

I have read and understand these guidelines. With my signature, I agree to abide by these guidelines during the time I’m enjoying the Carolina North Forest.

Signed: ________________________________  This the___ day of ________, 20___