INVENTORY AND CLASSIFICATION OF WETLANDS AT LITTLE RIVER CANYON NATIONAL PRESERVE FORT PAYNE, ALABAMA

A Report Submitted to the National Park Service

By

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February 2009

EXECUTIVE SUMMARY

During 2006 - 2008, an inventory was conducted to collect baseline information on wetlands at Little River Canyon National Preserve (LIRI). A preliminary investigation based on National Wetland Inventory (NWI) maps indicated that 18 wetlands were present at LIRI. This comprehensive inventory was conducted by systematically searching transects throughout the entire park and identifying each jurisdictional wetland.

Methods used to identify wetlands followed the definition and procedures outlined in the 1987 U. S. Army Corps of Engineers, Wetland Delineation Manual (WDM). At each wetland located, data were collected that characterized hydrology, soils, and dominant plant species, location, wetland type, and estimated size. Each wetland was classified using both the Hydrogeomorphic (HGM) system and the Cowardin system. The functions and potential values of the wetland also were recorded. Potential functions included surface water storage, groundwater discharge to streams, carbon/nutrient export, provision of wildlife habitat, and support of wetland plants. Potential values included interpretation, cultural importance, research and scientific value, and economic value. Additionally, observations regarding the presence of exotic plant species and alterations or degradations to the wetland and the potential for restoration were recorded.

Upon completion of the field investigation, 127 wetlands had been located and characterized. These wetlands totaled an estimated 71.1 acres (28.7 ha). Based on the Hydrogeomorphic (HGM) classification system, 107 were slope wetlands, 14 were depressions, and 8 were considered riverine wetlands. Based on the Cowardin classification system, 113 of the wetlands were palustrine, forested wetlands dominated by deciduous trees (PFO1). Of these, 96 were temporarily flooded (PFO1A) and 16 were seasonally flooded (PFO1C), and 1 was

intermittently exposed (PFO1E). Eight riverine wetlands were identified; all were considered to be upper perennial with rock bottoms comprised of bedrock (R3RB1). Five palustrine scrub-shrub wetlands dominated by broad leaved deciduous species (PSS1) also were found. Two of these were temporarily flooded (PSS1A), 1 was seasonally flooded (PSS1C), and 2 were seasonally flooded/saturated (PSS1E). Only 1 palustrine emergent wetland (PEM) was found, this wetland was dominated by persistent vegetation and was temporarily flooded (PEM1A).

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INTRODUCTION

Little River Canyon National Preserve (LIRI) was established in 1992 and is located in Dekalb and Cherokee counties in northeastern Alabama. It is best known for the Little River, one of the longest mountaintop rivers in the east and for the deep gorge system it has cut.

To date, LIRI is comprised of approximately 5,600 ha (14,000 acres), and although neither was assessed for this inventory, Desoto State Park and a wildlife management area managed by the Alabama Department of Conservation are directly adjacent. Elevations at LIRI vary from approximately 180 m (590 ft) – 542 m (1,780 ft) and range from the gently rolling lands north of Little River Falls, to the steep sides of the gorge and river system that comprises the majority of LIRI south of Little River Falls.

With a general goal of improving the stewardship of wetlands at LIRI, it was determined that the information most needed to initiate proper management of wetland resources at these sites included the location and types of wetlands present and an assessment of functions performed by them. Such knowledge is necessary to facilitate the evaluation of future potential impacts to wetlands. Further, if unavoidable impacts do occur, this information would be useful in the determination of appropriate compensation as required by the U. S. Army Corps of Engineers under Section 404 of the Clean Water Act (CWA), State requirements under Section 401 of the CWA, and requirements by the NPS for compliance with Directors Order #77-1.

Wetlands are defined as “Those areas that are inundated or saturated by surface or groundwater at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions. Wetlands generally include swamps, marshes, bogs, and similar areas.” (U. S. Army Corps of Engineers 1987). Wetlands are characterized by the presence of “hydric” soils and are dominated by “hydrophytes” that have adaptations that enable them to persist where “upland”

plants cannot. A prolonged hydrologic regime (i.e., one in which the site is flooded, ponded, or saturated for approximately two or more consecutive weeks during the growing season) is the primary factor that controls the establishment and maintenance of wetland characteristics.

This water logging is responsible for the fundamental difference between wetland and non-wetland areas. Specifically, the upper portion of the soil profile in wetlands becomes anoxic because microorganisms consume the available oxygen that is not replenished because of the slow rate of diffusion from the atmosphere into and through a saturated medium. This anoxic environment supports unique microbial populations that have the ability to use elements other than oxygen as terminal electron acceptors in their metabolic processes. These anaerobic microbes are responsible for mediating the biochemical reactions in wetlands (e.g., denitrification) that typically do not take place in environments in which oxygen is present. From a practical perspective, these reactions also result in changes in soil color (generally from brown to gray) due to the conversion of oxidized ferric iron to reduced ferrous iron. The presence of this distinctive color can be used in combination with an examination of the plant community and indicators of hydrology to identify wetlands and delineate the extent of their boundaries. Examination of these three factors (hydrology, soils, and vegetation) has become accepted as the basis for the process of wetland delineation as outlined in the Wetland Delineation Manual (WDM) (U. S. Army Corps of Engineers 1987).

Wetlands include a variety of landforms including marshes, swamps, bogs, fens, vernal pools, pocosins, potholes, playas, wet meadows and others that are described in varying detail in Mitch and Gosselink (2000). These diverse types occur in different landscape positions and may have quite different hydrologic regimes. For example, wetlands commonly are found in lower landscape positions such as lake fringes and river bottoms, but also may occur on hillsides or even on topographic highs such as watershed divides. Similarly, wetlands vary

from those in which surface flooding or ponding occurs regularly to those in which surface water seldom is present. Examples of those in the former category include inland and coastal marshes, and river bottom swamps that are commonly referred to as bottomland hardwoods. These types account for the majority of wetlands in the Southeast. In the latter category are wetlands such as wet meadows and seeps or "springs" where groundwater discharges to the surface. Groundwater discharge wetlands have highly variable hydroperiods with some containing water throughout the year while others are wet only following periods of significant rainfall.

In spite of the many functions that wetlands perform and the often-significant value derived from those functions, approximately 53% of the wetlands originally present in the lower 48 states have been lost since European settlement as a direct result of human activities (Dahl 1990); and in many states, those losses are continuing (Hefner et al. 1994). Dahl (2000) reported that from 1986 to 1997, the wetland types in which the greatest losses occurred were freshwater forested wetlands and freshwater marshes. Estimated losses in each category were 1.2 million acres.

Though wetland loss continues today, our understanding of the importance of wetlands has changed considerably since the mid-1800s through the 1900s when landowners were encouraged to drain, ditch, and fill wetlands (Mitsch and Gosselink 2000). State and Federal regulations have since been instituted to reduce wetland loss, and many entities at all levels of government have adopted programs to aid in wetland conservation and stewardship. The U. S. National Park Service, (NPS) which manages millions of acres in the United States, has begun an initiative to determine the extent and quality of natural resources (including wetlands) under its jurisdiction, including those at LIRI, and is the basis for this study.

WETLAND CLASSIFICATION SYSTEMS/FUNCTIONS

Because of the many inherent differences among wetland types, several classification systems have been developed over the years to place wetlands into meaningful groups for inventory, management, and other purposes. Two of the most useful are the *Classification of Wetlands and Deepwater Habitats of the United States* (Cowardin et al. 1979) and *A Hydrogeomorphic Classification for Wetlands* (HGM) (Brinson 1993). The former, normally referred to as the Cowardin system, was developed as the basis for the National Wetland Inventory (NWI) conducted by the U. S. Fish and Wildlife Service. It assigns wetlands to 1 of 5 systems and then to a varying number of subsystems and classes based on hydrologic regime, water chemistry, plant community, and other characteristics. The notation or codes for these various attributes are recorded on the NWI maps so users have information not only regarding the presence of wetlands, but what the characteristics of those wetlands are. The Cowardin system has proved very useful for the NWI, but sometimes does not take into account even major differences in landscape position, the source of hydrology for the wetland, or its hydrodynamics; all factors that influence the functions wetlands perform. Thus, its use in classifying wetlands into groups that function similarly is limited. As a result, the HGM classification system that is based on those three factors (landscape setting, source of hydrology, and hydrodynamics) was developed for that specific purpose. In the HGM classification system, wetlands are assigned to 1 of 7 classes: riverine, depression, slope, tidal fringe, lacustrine fringe, mineral soil flats, and organic soils flats. Further subdivisions into subclasses are based on hydrology source and hydrodynamics. A desirable feature of the HGM classification system is that inferences regarding function can be made from the classification system alone. For example, wetlands in the depression class usually will store surface water whereas those in the slope class typically will not. Export of carbon and nutrients typically will occur in riverine wetlands, but typically

will not occur in either of the flats classes. Thus, simply by assigning a wetland to the appropriate HGM class or subclass, much is known about the wetland's role in the landscape.

In addition to those functions mentioned above, wetlands also may cycle nutrients, trap sediments and pollutants, and in some cases, recharge groundwater and provide base flow to streams and rivers. Almost all wetlands provide habitat for a wide variety of flora and fauna and are critical in maintaining local and regional biodiversity. Sather and Smith (1984), Marble (1990), Mitsch and Gosselink (2000), and various HGM documents and guidebooks (e.g., Smith et al. 1995, Ainslie et al. 1999, Smith and Klimas 2002, Wilder and Roberts 2003) all provide excellent summaries of functions that wetlands perform and the values derived from them. During the past decade, consideration of wetland functions has become a routine part of the wetland regulatory process, and it is now common for functions to serve as the basis for decision making regarding issuance of permits and development of mitigation alternatives.

The HGM approach also has been used as the basis for the development of assessment "models" that identify functions performed by a specific wetland class and subclass and can be used to determine the degree to which those functions are performed. The output usually is on a 0 - 1.0 scale in which a score of 1.0 indicates the wetland performs the function to the highest degree, while a score of 0 indicates that the function is not performed at all. Such rigorous assessments may be needed to calculate potential impacts due to a proposed project or to assist in the development of mitigation alternatives. Less detailed assessments where potential wetland function is ranked as high, medium, or low often are appropriate for inventory and baseline determination projects. The HGM approach has been recognized as a useful tool for assessing wetland function by the major federal agencies with regulatory authority or oversight over wetlands; these include the U. S. Fish and Wildlife Service (FWS), U. S. Environmental

Protection Agency (EPA), U. S. Army Corps of Engineers (COE), and the U. S. Natural Resources Conservation Service (NRCS).

OBJECTIVES

The primary objectives of this inventory and assessment included: (1) identify and delineate all wetlands subject to jurisdiction under Sections 404 and 401 of the CWA, and all wetlands subject to National Park Service procedures for implementing Director's order #77-1, (2) produce a database that includes the location and description of all wetlands present including their Cowardin and HGM classifications, and (3) assess the biotic and abiotic functions and values of these wetlands.

METHODS

Prior to conducting the field investigation at LIRI, data that might provide information regarding wetlands there were examined. The principal data were the NWI maps for the area. In spite of their usefulness for inventory studies, NWI maps have limitations. For example, the NWI is more accurate in open landscapes in which wetland "signatures" such as open water can be seen and identified from remotely sensed imagery. Wetlands in which saturation as opposed to ponding or flooding is the primary source of hydrology often will not be detected by the NWI. Wetland size also is a factor that determines the likelihood of wetlands being identified by the NWI surveys. There is no absolute minimum size necessary for a wetland to be included on an NWI database, but commonly, wetlands smaller than one acre will be missed.

Following this "office" investigation, the area within the boundaries of LIRI (Figure 1) was systematically searched on foot to identify areas that potentially meet the criteria to be considered a jurisdictional wetland according to the WDM (U.S. Army Corps of Engineers 1987). Detailed topographic maps that included the network of roads and trails within LIRI, along with a Global Positioning System (GPS) receiver were used as navigation aids in the field. The primary indicators of potential wetlands were the presence of surface water, an obvious change in vegetation cover, and the presence of plant species known to occur primarily in wetlands.

Whenever potential wetland areas were located, procedures prescribed by the WDM (U. S. Army Corps of Engineers 1987) were employed to: (1) determine if the area was a wetland, and if so, (2) delineate the boundary of the wetland. This process involved documenting the dominant plant species and carefully examining potential indicators of soils and hydrology. The dominant plant species in all strata (i.e., tree, shrub, ground, and woody vine)

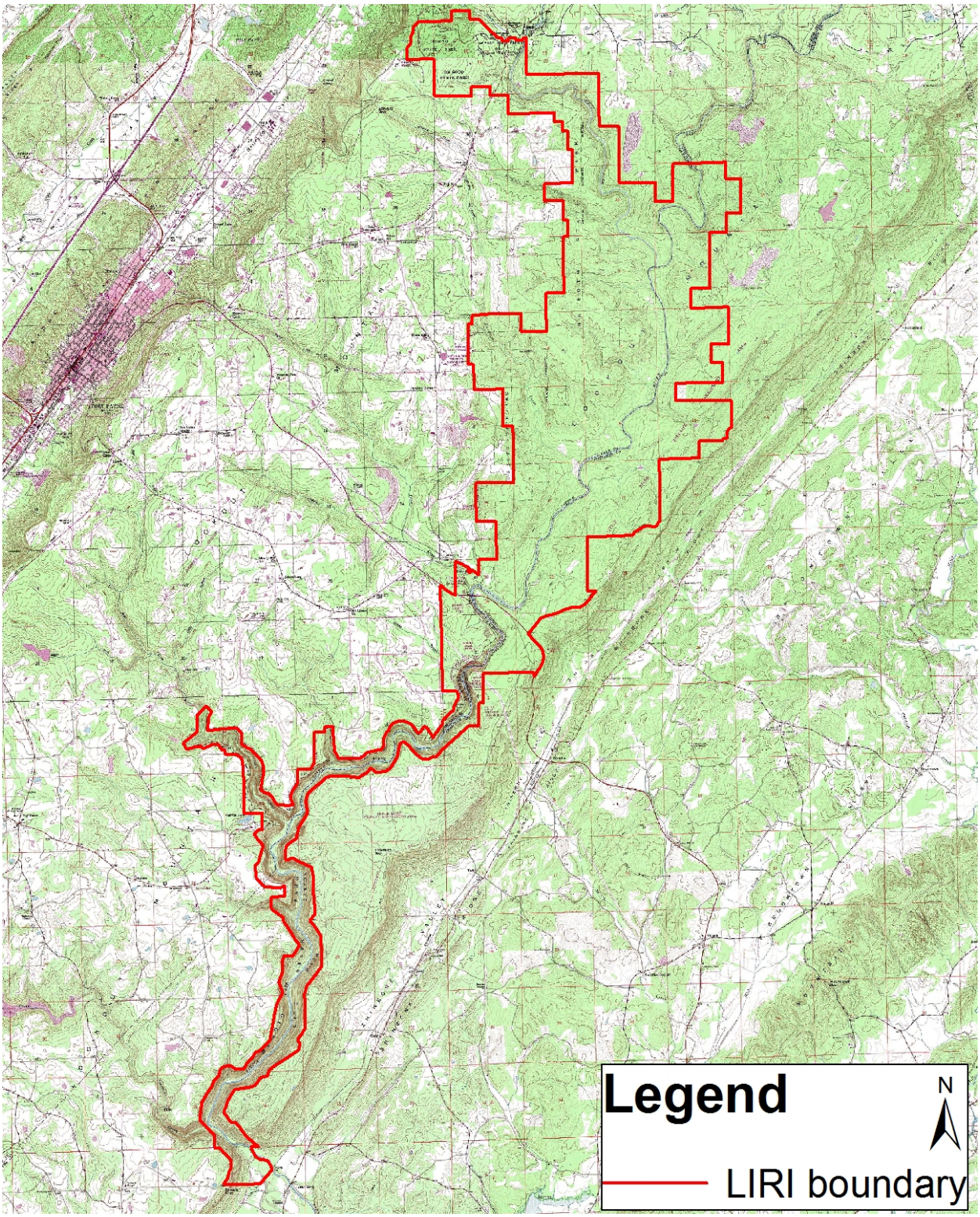


Figure 1. Little River Canyon National Preserve.

were identified to species if possible using Radford et al. (1968) and Godfrey and Wooten (1979) and their wetland indicator status (obligate, facultative wetland, etc.) was determined from Reed (1988) (Table 1). If more than 50% of the dominant species were facultative, facultative wetland, or obligate, the site was considered dominated by hydrophytic vegetation.

Soils were exposed either by digging a series of pits with a sharpshooter shovel, or extracting samples with a soil probe to a depth of approximately 18 inches. Color of the soil matrix (the primary color) and of the mottles (splotches of color within the matrix, if present) was described using standard Munsell color notation. Indicators of "hydric" soil also were noted (USDA, NRCS 2002, and U. S. Army Corps of Engineers 1987). The primary one used in this study was the presence of low matrix chromas (i.e., those < 2). This indicator develops as a result of prolonged reduction; thus it can be inferred that the site is flooded, ponded, or saturated for long periods during the growing season.

Table 1. Wetland indicator definitions according to Reed (1988) used to determine the indicator status of plant species recorded in wetlands at Little River National National Preserve.

Category	Abbreviation	Definition
Obligate Wetland	OBL	Almost always occur (estimated probability >99%) in wetlands under natural conditions
Facultative Wetland	FACW	Usually occur in wetlands (estimated probability 67-99%), but occasionally found in non-wetlands
Facultative	FAC	Equally likely to occur in wetlands or non-wetlands (estimated probability 33-66%)
Facultative Upland	FACU	Usually occur in non-wetlands (estimated probability 67-99%), but occasionally found in wetlands
Upland	UPL	Almost always occur (estimated probability >99%) in non-wetlands under natural conditions

A determination of whether the site had a hydroperiod prolonged enough to be considered "wetland hydrology" was made based on field indicators described in the WDM (U. S. Army Corps of Engineers 1987). Two identified in this study were soil saturation within 12 inches of the surface and the presence of oxidized rhizospheres. Additional information regarding each of the indicators/parameters of wetland hydrology can be found in the WDM (U. S. Army Corps of Engineers 1987).

Once an area was determined to be a wetland, its boundaries were delineated based on the presence or absence of each of the three parameters (soils, hydrology, and vegetation). A flag or other marker was placed in the ground to indicate the point at which one or more of the parameters ceased to be present, thus denoting the edge of the wetland. Wetland size was estimated by approximating a geometric figure (square, rectangle, circle, etc.) and using a rangefinder to determine distances needed for the appropriate calculations.

Universal Transverse Mercator (UTM) coordinates for each wetland were determined using a handheld GPS receiver. Coordinates were stored in the receiver and recorded on field data sheets. After each field sampling period, the UTM coordinates were transferred to a Geographic Information System (GIS) and graphically represented using ArcView© software. By continuously updating the GIS database (and maps), areas of LIRI that still needed to be searched could be identified.

Each wetland was assigned to the most detailed Cowardin and HGM class possible. The Cowardin classification uses an alphanumeric code to denote characteristics of the wetland. The first character is an upper case letter that represents the *system*. All the wetlands at LIRI were classified within the palustrine system. The palustrine system includes most interior freshwater wetlands not associated with large open water bodies and is denoted on NWI maps by the letter P. Next is a set of two upper case letters that represent the *class*. For the wetlands at LIRI, the

potential classes included: EM - emergent wetland (dominated by non-woody vegetation), SS - scrub/shrub (dominated by woody vegetation < 3 inches in diameter and < 20 feet tall), and FO - forested (dominated by woody vegetation 3 inches or greater in diameter and at least 20 feet tall). The next character is a number representing the *subclass*. These modifiers provide more detail regarding the plant community and they vary with the class. For example, in emergent wetlands at LIRI, the most common modifier used was "1" – persistent (plant species that commonly remain standing until the next growing season). The other modifier in this subclass is "2" - non-persistent (plant species that do not remain standing until the next growing season). In scrub/shrub wetlands at LIRI, the modifier used was "1" – broad-leaf deciduous plants that lose their leaves in winter. Other examples of this modifier include needle-leaved deciduous, and broad-leaved evergreen. The next character is an upper case letter that represents the water regime (i.e., the hydroperiod). Examples of modifiers include: A - temporarily flooded (typically floods for < 2 weeks during the growing season), and C - seasonally flooded (typically floods for two or more weeks during the growing season). As an example, a wetland assigned a code of PSS1A is a freshwater wetland not associated with a lake or open water body that is dominated by deciduous, scrub-shrub vegetation and is inundated for less than two weeks during the growing season. A complete explanation of these notations can be found in Cowardin et al. (1979).

In the HGM system, the classes that potentially could occur at LIRI were riverine, depression, slope, mineral soil flat, and lacustrine fringe. Further designations are not as structured as in Cowardin and vary among classes. Examples of factors that potentially could be used to assign wetlands to the more-detailed subclass level include: stream gradient (high or low) for riverine wetlands, landscape form (open or closed contours) for depressions, and primary

source of hydrology (ground or surface water) for depressions. Vegetation usually is not considered formally when determining class or subclass within the HGM classification system.

The initial list of potential functions/values (biotic, hydrologic, research/scientific, cultural, and economic) was reviewed to determine their applicability to the wetland types most likely to occur at LIRI. Further, a review of HGM guidebooks, the scientific literature, and previous inventory and assessment work completed in the region was conducted to identify the physical, chemical, and biological characteristics of the wetlands responsible for the performance of the function(s). Based on this preliminary work, eight specific functions/values believed to be the most relevant at LIRI were selected for evaluation. These included: surface water storage, groundwater discharge to streams, carbon/nutrient export, provide wildlife habitat, support wetland plants, cultural value, research/scientific value, and economic value. These functions/values along with a section in which ratings could be recorded were included on the field data form.

The functions/values of each wetland identified at LIRI were evaluated by visually examining the characteristics of wetlands likely to be related directly to one or more functions/values. The following references provided background regarding these characteristics and recommendations on how they can be estimated: Mueller-Dombois and Ellenberg (1974) and Hays et al. (1981) for plant and habitat-related parameters; Brady and Weil (1999) for soil and soil-related parameters; and Ponce (1989) for hydrologic parameters. Examples of characteristics presumed to be related to the capacity of the wetlands to perform one or more functions include: species composition of the vegetation in the overstory, midstory, and understory layers, diameter at breast height (DBH) of the overstory and midstory trees, density of saplings and shrubs, size and density of logs and snags, percent cover of understory vegetation, and percent cover of litter. Non-vegetation characteristics included hydrology source (i.e.,

flooding, ponding, or saturation), timing and duration of inundation or saturation, depth to the seasonal high water table, landscape position (i.e., HGM classification, proximity to stream or river, etc.), and soil characteristics (i.e., color, depth to redoximorphic features, texture, presence or confining layers, etc.). Nominal ratings of high, medium, or low were used for three functions; high and low only for two functions; and yes or no for the three "values." The following sections provide a description of each function/value and an overview of the characteristics and conditions used to derive the ratings. More detail regarding the logic used to assign ratings to various wetland functions can be found in Ainslie et al. (1999), Smith and Klimas (2002), and Wilder and Roberts (2003). Wetland size is an obvious factor related to all functions or values. In many instances larger wetlands provide increased function and value over that produced by smaller wetlands. Size however is not considered directly in the HGM process. If desired, users can incorporate size into the comparison when two or more wetlands are being assessed.

Surface Water Storage

This function addresses the capacity of the wetland to store surface water during periods of high rainfall and runoff**.** It is performed by wetlands in both the depression and riverine classes. Many benefits related to flood attenuation and the reduction of flood damage occur as a result of wetlands performing this function. For example, storage of surface water in wetlands can reduce the velocity of the flood-wave and as a result, decrease peak discharge downstream. Similarly, this reduction in velocity can have a dramatic effect in reducing damage from erosive forces.

Wetlands at LIRI were assigned a rating of either high or low for this function based solely on HGM classification. Depressions occur in both upland and floodplain locations and vary greatly in size. Regardless of their location or size, depressions store water so they were

assigned a rating of high for this function. Riverine wetlands (i.e., those on floodplains) adjacent to mid-and low-gradient streams or rivers also store water, so those in this landscape position also scored high. Other types of wetlands do not store surface water and were assigned a rating of low for this function.

Groundwater Discharge to Streams

This function addresses the capacity of the wetland to retain and convey subsurface water to an adjacent stream or river; it is performed most commonly by wetlands in the HGM riverine and slope classes. Subsurface water stored in or moving through the wetland will be released more slowly than would surface flow. This slow release is important in maintaining water levels in the channel during periods of low rainfall, that in turn is important in developing and maintaining habitat structure and biotic diversity in stream or river systems.

Wetlands at LIRI were assigned a rating of high or low for this function based on HGM classification and landscape position. Only riverine and slope wetlands adjacent to a stream or river have the opportunity to facilitate the slow release of water to maintain baseflow, those that met this condition received a score of high. Conversely, wetlands not adjacent to a stream or river were assigned a score of "low" or "not applicable" for this function.

Carbon/Nutrient Export

This function addresses the capacity of the wetland to export dissolved and particulate organic carbon and other nutrients present in the wetland to downgradient systems by leaching and flushing litter via overland flow. Wetlands in the riverine and slope HGM classes perform this function most commonly. Many benefits accrue from the performance of this function. Material exported to downstream systems is vital for supporting aquatic food webs and numerous biogeochemical processes. Dissolved organic carbon is a significant source of energy

for the microorganisms that form the base of detrital food webs, while particulate carbon is used to support invertebrate shredders.

Wetlands at LIRI were assigned a rating of high, medium, low, or not applicable N/A for this function based on HGM classification, landscape position and condition of the plant community. First, only riverine and slope wetlands adjacent to a stream or river have the opportunity to export significant amounts of carbon, so this condition had to be met before a score could be assigned. Wetlands in other HGM classes that were not adjacent to a stream or river were assigned a score of N/A for this function. Second, only wetlands with a well-developed plant community have the potential to produce substantial amounts of organic carbon and other nutrients. Assuming wetlands at LIRI were forested historically, only wetlands in which all vegetation strata (understory, midstory, and overstory) were present received a high score for this function. Wetlands with two strata received a score of medium, while those with only one stratum received a score of low. These conditions were determined onsite, but can be approximated by the Cowardin classification. In most cases palustrine forested (PFO) wetlands are comprised of three strata, palustrine scrub/shrub (PSS) wetlands of two strata, and palustrine emergent (PEM) wetlands of only one stratum

Provide Wildlife Habitat

This function addresses the capacity of the wetland to provide habitat for wildlife either periodically or year around. This function is somewhat unique in that wetlands in all HGM classes support various species of wildlife. The focus of this assessment was on amphibians, a group of organisms that is dependent on wetlands for completing their life cycle in that generally they must lay their eggs in water or saturated soil. Amphibians have experienced worldwide population declines, thus they are ideal for serving as the emphasis of this function.

Wetlands were assigned a rating of high, medium, or low for this function based on their hydrologic regime. Only wetlands with prolonged hydroperiods (i.e. standing water for two or more weeks during the growing season) have the potential to provide breeding habitat for amphibians, so only these wetlands could receive a high score for this function. Such wetlands often are referred to as vernal pools and typically belong to the HGM depression class; although, wetlands in other classes may contain depressions within their boundaries. Wetlands in which only short-term ponding occurred were assigned a score of medium. These mostly could be characterized as micro-depressions. Wetlands in which only soil saturation occurred were assigned a score of low for this function.

Support Wetland Plants

This function addresses the capacity of the wetland to support a plant community comprised primarily of species associated with wetland ecosystems. In this study, the emphasis was placed on species found only or primarily in wetlands (i.e., the obligate and facultative wetland groups described by Reed (1988)). In addition to the inherent value of the plants themselves, the plant community in most instances is one of the major factors upon which the animal community depends. Further, the plant community is the ultimate source of primary production and as such essentially drives many of the other functions such as on-site cycling of nutrients and production of material for export to other systems.

Wetlands were assigned a score for this function based on the uniqueness of the plant community present. Wetlands that were dominated by unique species, particularly those in the obligate category or those wetlands containing a rare, threatened, or endangered plant species were assigned a score of high. Wetlands that were dominated by species in the facultative wetland category were assigned a score of medium. Wetlands dominated by species in the facultative or drier category were assigned a score of low.

Cultural Values

Cultural values include a broad array of concepts ranging from aesthetics to archeological significance. The values differ somewhat from those derived from the above functions, but are extremely important at a facility such as LIRI where consideration for the experiences of the visiting public is a high priority.

Wetlands at LIRI were assigned either a "yes" or "no" (i.e., either having or not having value) for this category. Factors that were considered were uniqueness, size (the larger the better), evidence of historical use by humans, proximity to trails and roads (important consideration for environmental education), etc. It could be argued that all wetlands have cultural significance in the form of aesthetics and potential for environmental education; but, unless a wetland "stood out" for one or more of the above reasons, it was given a rating of "no." As an example, wetlands that were less than average size, had no apparent evidence of past human activity and were not readily accessible by the public, were not considered to have cultural significance. Reasons for rating wetlands as having cultural significance were noted on the field forms. Nothing was noted for wetlands judged to lack cultural significance.

Research/Scientific Value

Research/scientific values include a broad array of concepts ranging from supporting unique species that warrant investigation to serving as "reference" sites to promote a better understanding of ecosystems and how they may become degraded, be restored, or managed. As with cultural considerations, these values differ somewhat from those derived from the above ecological functions.

Wetlands at LIRI were assigned either a "yes" or "no" (i.e., either having or not having value) for this category. Factors that were considered included uniqueness, size, degree of disturbance, and presence of species of high interest. It could be argued that all wetlands have

research/scientific value; but, unless a wetland "stood out" for one or more of the above reasons, it was given a rating of "no." Reasons for rating wetlands as having research/scientific value were noted on the field forms. Nothing was noted for wetlands judged to have no research/scientific potential.

Economic Values

Economic values may be derived from resources produced by or within the wetland or may be due to some function that the wetland performs. Examples of the former include timber or fisheries production. Examples of the latter include the value of the wetland for reducing flooding downstream because of water storage capacity.

Wetlands at LIRI were assigned either a "yes" or "no" (i.e., either having or not having value) for this category. The two factors that were considered were the ability of the wetland to serve as an attraction to visitors and the value of the wetland for reducing flood damage. Given that LIRI is a NPS facility, values associated with timber and commercial exploitation of wildlife and other natural resources were not considered. Reasons for rating wetlands as having economic value were noted on the field forms. Nothing was noted for wetlands judged to have no economic value.

RESULTS

The NWI maps indicated that approximately 18 wetlands were present at LIRI (Figure 2); however, field investigation documented the presence of 127 wetlands (Figure 3). The limitations of the NWI information mentioned previously simply had not permitted the additional wetlands to be identified, likely because of small size and the absence or short duration of standing water. These wetlands totaled approximately 71 acres (28.7 ha), with the average wetland size being approximately 0.55 acres (0.22 ha).

Upon completion of the field investigation, 127 wetlands had been located and characterized. These wetlands totaled an estimated 71.1 acres (28.7 ha). Based on the Hydrogeomorphic (HGM) classification system, 107 were slope wetlands, 14 were depressions, and 8 were considered riverine wetlands. Based on the Cowardin classification system, 113 of the wetlands were palustrine, forested wetlands dominated by deciduous trees (PFO1). Of these, 96 were temporarily flooded (PFO1A) and 16 were seasonally flooded (PFO1C), and 1 was intermittently exposed (PFO1G). Eight riverine wetlands were identified; all were considered to be upper perennial with rock bottoms comprised of bedrock (R3RB1). Five palustrine scrub-shrub wetlands dominated by broad leaved deciduous species (PSS1) also were found. Two of these were temporarily flooded (PSS1A), 1 was seasonally flooded (PSS1C), and 2 was seasonally flooded/saturated (PSS1E). Only 1 palustrine emergent wetland (PEM) was found, this wetland was dominated by persistent vegetation and was temporarily flooded (PEM1A).

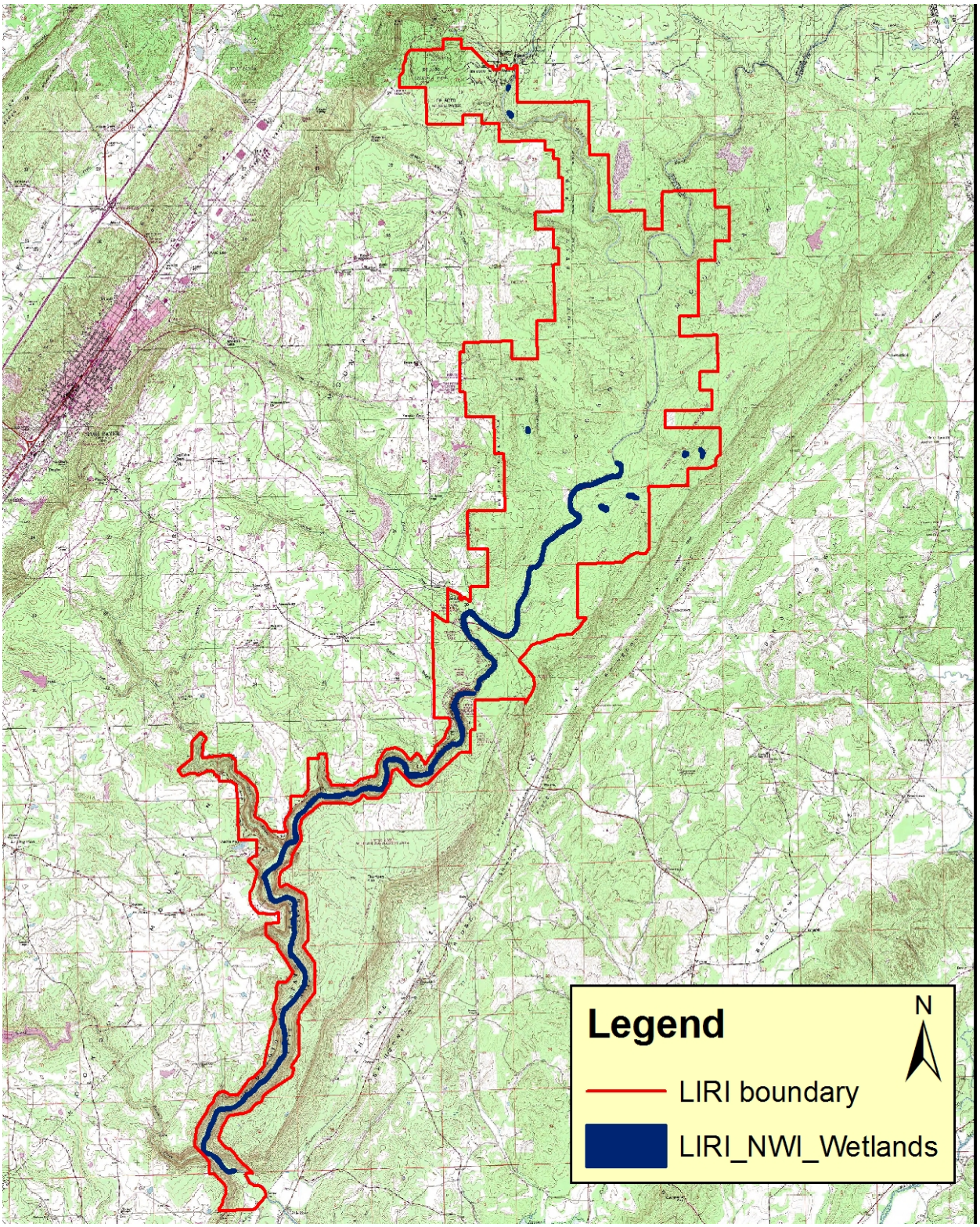


Figure 2. Distribution of wetlands at Little River Canyon National Preserve, based on National Wetland Inventory

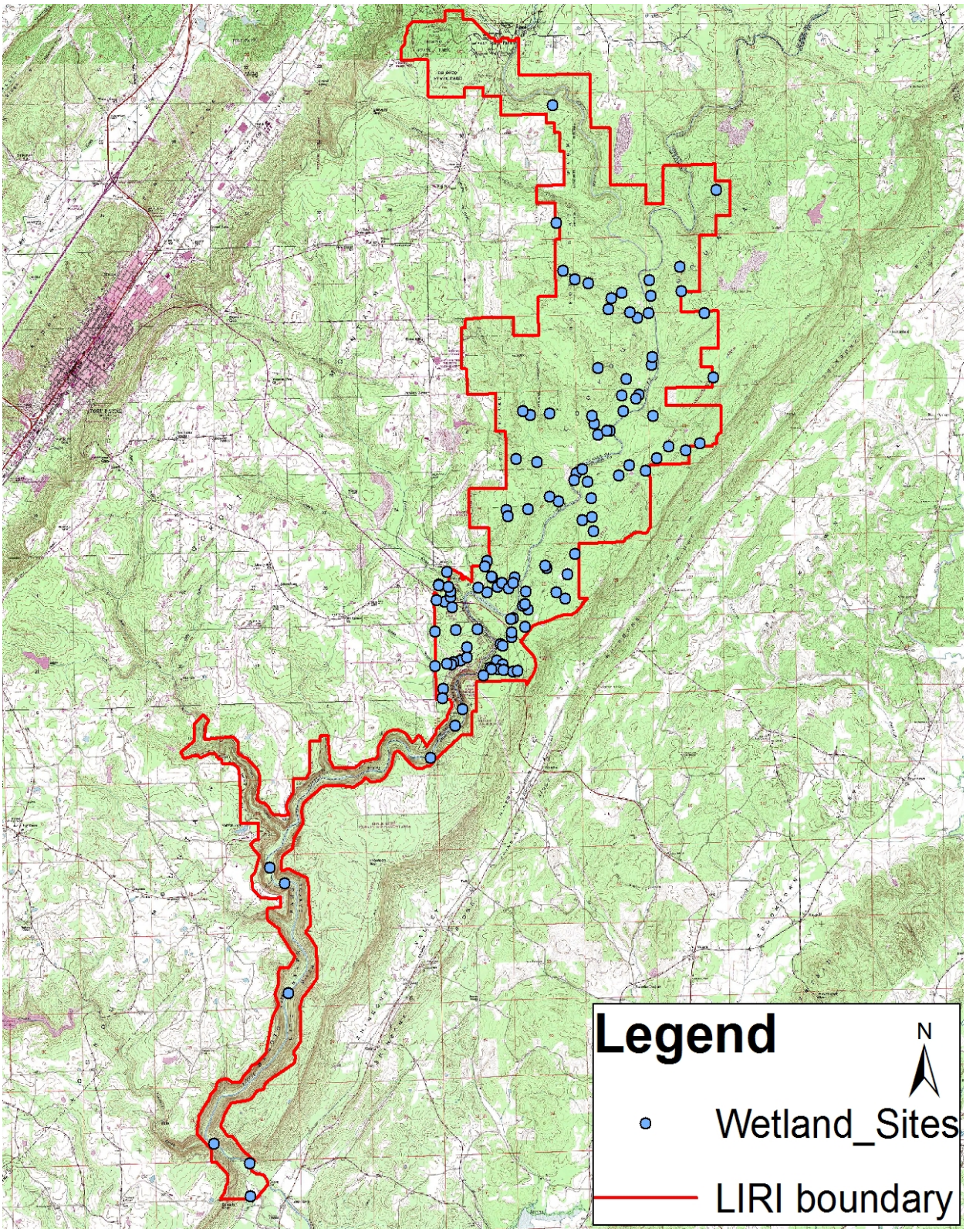


Figure 3. Locations of all wetlands identified during the inventory at Little River National Preserve, 2006-2008.

CONCLUSIONS

Small wetlands such as the majority found at LIRI have received little attention by researchers and managers, thus these wetlands likely should be investigated further. We commonly observed wetlands holding water or having soils saturated throughout much of the amphibian breeding. We further documented that many wetlands were being used as breeding habitat by amphibians. Because of the nature of our survey, there was not time to document use by other vertebrate groups. Because wetlands at LIRI exist as unique patches within a mostly upland landscape, their value as water sources for other groups of wildlife could be significant, especially during prolonged dry periods. This could be investigated by live-trapping, track counts, or use of remotely-operated cameras.

This inventory documented a significant number of previously unknown wetlands; thus the findings will facilitate searches by botanists, herpetologists, and scientists in other disciplines during future research activities. Research regarding species within these various disciplines would be useful in determining the role these wetlands play in maintaining local and regional populations. Further, the genetic makeup of these populations would be of interest to scientists as part of recent endeavors to understand metapopulation dynamics.

Several of the wetlands were of high quality and could serve as reference sites for scientific studies. These wetlands are in relatively good hydrologic condition and likely would be useful as a study area for a variety of wetland research topics, though the vegetation likely has been altered in most. Both federal and state agency personnel have been involved in developing assessment models for various wetland types across the Southeast. Wetland areas such as those identified in this study at LIRI likely would add significantly to these research efforts.

ACKNOWLEDGEMENTS

Many thanks to the field technicians who traversed the entire park; Dan Twyman, Matthew Granstaff, Jon Hoch, Kelly Laycock, Kirk Raper, and Emily Watson. We also thank Mary Shew and other LIRI staff for providing us with valuable assistance in locating potential wetlands and providing access to all portions of LIRI. We wish to thank Matthew Granstaff and Emily Watson of Tennessee Technological University for developing the GIS portion of this project. Special thanks to Teresa Liebfreid with the Cumberland Piedmont Network, and the Water Center at Tennessee Tech University for providing support and administering the project.

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APPENDIX A

(photographs and Selected Data)



Site ID: LIRI 001
Acreage: 0.22
UTM Easting: 625871
Northing: 3806895

Cowardin Class: PFO1A
HGM Class: Slope

Dominant Plant Species: ***Pinus taeda, Sphagnum spp., Osmunda cinnamomea, Liquidambar styraciflua***



Site ID: **LIRI 002**

Acreage: **0.06**

UTM Easting: **625711**

Northing: **3806935**

Cowardin Class: **PFO1A**

HGM Class: **Slope**

Dominant Plant Species: ***Acer rubrum, Smilax spp., Sphagnum spp., Liquidambar styraciflua***



Site ID: **LIRI 003**

Acreage: **0.44**

UTM Easting: **625526**

Northing: **3806973**

Cowardin Class: **PFO1A**

HGM Class: **Slope**

Dominant Plant Species: ***Acer rubrum, Liquidambar styraciflua, Osmunda cinnamomea, Viburnum nudum***



Site ID: **LIRI 004**

Acreage: **0.02**

UTM Easting: **625868**

Northing: **3806820**

Cowardin Class: **PSS1A**

HGM Class: **Slope**

Dominant Plant Species: ***Chasmanthium laxum, Osmunda cinnamomea, Acer rubrum***



Site ID: **LIRI 005**

Acreage: **0.29**

UTM Easting: **625487**

Northing: **3806309**

Cowardin Class: **PFO1C**

HGM Class: **Slope**

Dominant Plant Species: ***Liquidambar styraciflua, Sphagnum spp., Acer rubrum, Osmunda cinnamomea***



Site ID: **LIRI 006**

Acreage: **1.86**

UTM Easting: **625953**

Northing: **3806348**

Cowardin Class: **PFO1C**

HGM Class: **Slope**

Dominant Plant Species: ***Liquidambar styraciflua, Alnus serrulata, Pinus taeda, Sphagnum spp., Acer rubrum.***



Site ID: **LIRI 007**

Acreage: **1.69**

UTM Easting: **626050**

Northing: **3805699**

Cowardin Class: **PFO1A**

HGM Class: **Slope**

Dominant Plant Species: ***Pinus taeda, Osmunda cinnamomea, Acer rubrum, Smilax glauca, Athyrium filix-femina***



Site ID: **LIRI 008**
Acreage: **0.74**
UTM Easting: **626208**
Northing: **3805755**

Cowardin Class: **PFO1A**
HGM Class: **Slope**

Dominant Plant Species: ***Acer rubrum, Nyssa sylvatica, Osmunda cinnamomea, Chasmanthium laxum***



Site ID: **LIRI 009**

Acreage: **0.85**

UTM Easting: **626211**

Northing: **3805966**

Cowardin Class: **PFO1A**

HGM Class: **Slope**

Dominant Plant Species: ***Osmunda cinnamomea, Pinus taeda, Liquidambar styraciflua, Vitis spp., Acer rubrum***



Site ID: **LIRI 010**

Acreage: **1.38**

UTM Easting: **626432**

Northing: **3806364**

Cowardin Class: **PFO1A**

HGM Class: **Slope**

Dominant Plant Species: ***Osmunda cinnamomea, Athyrium filix-femina, Acer rubrum, Alnus serrulata***



Site ID: **LIRI 011**
Acreage: **0.06**
UTM Easting: **625904**
Northing: **3805658**

Cowardin Class: **PSS1A**
HGM Class: **Slope**

Dominant Plant Species: ***Vaccinium spp., Smilax rotundifolia, Acer rubrum, Pteridium aquilinum***



Site ID: **LIRI 012**

Acreage: **0.04**

UTM Easting: **625863**

Northing: **3805615**

Cowardin Class: **PFO1A**

HGM Class: **Slope**

Dominant Plant Species: ***Acer rubrum, Pinus taeda, Nyssa sylvatica, Liquidambar styraciflua, Vaccinium spp., Vitis spp.***



Site ID: LIRI 013
Acreage: 0.04
UTM Easting: 625759
Northing: 3805624

Cowardin Class: PFO1A
HGM Class: Slope

Dominant Plant Species: ***Nyssa sylvatica, Pinus taeda, Vaccinium spp., Acer rubrum***



Site ID: **LIRI 014**

Acreage: **12.2**

UTM Easting: **625491**

Northing: **3805576**

Cowardin Class: **PSS1E**

HGM Class: **Depression**

Dominant Plant Species: ***Alnus serrulata, Scripus cyperinus, Juncus effusus, Salix nigra, Cephalanthus occidentalis***



Site ID: **LIRI 015**

Acreage: **0.11**

UTM Easting: **625678**

Northing: **3805089**

Cowardin Class: **PFO1A**

HGM Class: **Slope**

Dominant Plant Species: ***Osmunda cinnamomea, Nyssa sylvatica, Liquidambar styraciflua, Vaccinium spp.***



Site ID: **LIRI 016**

Acreage: **0.01**

UTM Easting: **625750**

Northing: **3807570**

Cowardin Class: **RSRB1**

HGM Class: **Riverine**

Dominant Plant Species: ***Alnus serrulata, Cephalanthus occidentalis, Orontium aquaticum***



Site ID: **LIRI 017**
Acreage: **0.12**
UTM Easting: **626659**
Northing: **3807200**

Cowardin Class: **PFO1A**
HGM Class: **Depression**

Dominant Plant Species: ***Athyrium filix-femina, Arundinaria gigantea, Acer rubrum***



Site ID: **LIRI 018**
Acreage: **0.05**
UTM Easting: **626778**
Northing: **3807449**

Cowardin Class: **PFO1A**
HGM Class: **Slope**

Dominant Plant Species: ***Athyrium filix-femina, Osmunda cinnamomea, Acer rubrum, Liriodendron tulipifera***



Site ID: LIRI 019
Acreage: 0.03
UTM Easting: 626891
Northing: 3807262

Cowardin Class: PFO1A
HGM Class: Slope

Dominant Plant Species: Azalea spp., Acer rubrum, Chasmanthium laxum



Site ID: **LIRI 020**
Acreage: **0.09**
UTM Easting: **625657**
Northing: **3804886**

Cowardin Class: **PFO1A**
HGM Class: **Slope**

Dominant Plant Species: ***Liquidambar styraciflua, Nyssa slyvatica, Pinus taeda, Acer rubrum, Vaccinium spp., Smilax rotundifolia, Athyrium filix-femina***



Site ID: **LIRI 021**
Acreage: **0.15**
UTM Easting: **625839**
Northing: **3807045**

Cowardin Class: **PFO1C**
HGM Class: **Slope**

Dominant Plant Species: ***Acer rubrum, Smilax rotundifolia, Nyssa sylvatica, Pinus taeda, Vaccinium spp.***



Site ID: **LIRI 022**
Acreage: **0.01**
UTM Easting: **625838**
Northing: **3807165**

Cowardin Class: **PFO1A**
HGM Class: **Slope**

Dominant Plant Species: ***Acer rubrum, Vitis spp., Vaccinium spp.***



Site ID: **LIRI 023**
Acreage: **0.11**
UTM Easting: **626654**
Northing: **3807138**

Cowardin Class: **PFO1A**
HGM Class: **Depression**

Dominant Plant Species: ***Athyrium filix-femina, Acer rubrum***



Site ID: **LIRI 024**
Acreage: **0.10**
UTM Easting: **626449**
Northing: **3807245**

Cowardin Class: **PFO1C**
HGM Class: **Slope**

Dominant Plant Species: ***Nyssa sylvatica, Acer rubrum, Solidago spp., Eupatorium purpureum, Athyrium filix-femina***



Site ID: **LIRI 025**

Acreage: **0.20**

UTM Easting: **625571**

Northing: **3807300**

Cowardin Class: **PFO1A**

HGM Class: **Slope**

Dominant Plant Species: ***Acer rubrum, Nyssa sylvatica, Panicum spp., Carex intumescens***



Site ID: **LIRI 026**
Acreage: **0.05**
UTM Easting: **625572**
Northing: **3807298**

Cowardin Class: **PSS1C**
HGM Class: **Slope**

Dominant Plant Species: ***Juncus effusus, Carex crinita, Solidago spp., Osmunda cinnamomea, Liriodendron tulipifera, Liquidambar styraciflua***



Site ID: **LIRI 027**
Acreage: **0.10**
UTM Easting: **625783**
Northing: **3807262**

Cowardin Class: **PFO1A**
HGM Class: **Slope**

Dominant Plant Species: ***Osmunda cinnamomea, Nyssa sylvatica, Acer rubrum***



Site ID: **LIRI 028**

Acreage: **0.12**

UTM Easting: **626753**

Northing: **3807470**

Cowardin Class: **PFO1A**

HGM Class: **Slope**

Dominant Plant Species: ***Osmunda cinnamomea, Smilax spp., Acer rubrum, Azalea spp.***



Site ID: **LIRI 029**
Acreage: **0.07**
UTM Easting: **626985**
Northing: **3807338**

Cowardin Class: **PFO1A**
HGM Class: **Slope**

Dominant Plant Species: ***Osmunda cinnamomea, Athyrium filix-femina, Acer rubrum, Nyssa sylvatica***



Site ID: **LIRI 030**
Acreage: **0.38**
UTM Easting: **627144**
Northing: **3807227**

Cowardin Class: **PFO1A**
HGM Class: **Slope**

Dominant Plant Species: ***Acer rubrum, Nyssa sylvatica, Osmunda cinnamomea, Smilax rotundifolia***



Site ID: **LIRI 031**

Acreage: **0.15**

UTM Easting: **627279**

Northing: **3807453**

Cowardin Class: **PFO1A**

HGM Class: **Slope**

Dominant Plant Species: ***Nyssa sylvatica, Acer rubrum, Vaccinium spp., Osmunda cinnamomea***



Site ID: **LIRI 032**

Acreage: **0.05**

UTM Easting: **627248**

Northing: **3807334**

Cowardin Class: **PFO1A**

HGM Class: **Depression**

Dominant Plant Species: ***Acer rubrum, Nyssa sylvatica, Pinus taeda, Smilax spp., Osmunda cinnamomea***



Site ID: **LIRI 033**
Acreage: **0.09**
UTM Easting: **628262**
Northing: **3809075**

Cowardin Class: **PFO1A**
HGM Class: **Slope**

Dominant Plant Species: ***Acer rubrum, Nyssa sylvatica, Athyrium filix-femina, Osmunda cinnamomea***



Site ID: **LIRI 034**

Acreage: **0.07**

UTM Easting: **628050**

Northing: **3809177**

Cowardin Class: **PFO1A**

HGM Class: **Slope**

Dominant Plant Species: ***Osmunda cinnamomea, Acer rubrum, Athyrium filix-femina***



Site ID: LIRI 035
Acreage: 0.02
UTM Easting: 628662
Northing: 3809675

Cowardin Class: PFO1A
HGM Class: Depression

Dominant Plant Species: ***Liquidambar styraciflua, Acer rubrum, Osmunda cinnamomea***



Site ID: **LIRI 036**

Acreage: **0.55**

UTM Easting: **628787**

Northing: **3809751**

Cowardin Class: **PFO1A**

HGM Class: **Slope**

Dominant Plant Species: ***Acer rubrum, Liquidambar styraciflua, Osmunda cinnamomea, Nyssa sylvatica***



Site ID: **LIRI 037**
Acreage: **0.02**
UTM Easting: **627581**
Northing: **3808906**

Cowardin Class: **PFO1C**
HGM Class: **Slope**

Dominant Plant Species: ***Osmunda cinnamomea, Acer rubrum, Nyssa sylvatica***



Site ID: **LIRI 038**

Acreage: **0.01**

UTM Easting: **627085**

Northing: **3808895**

Cowardin Class: **PFO1C**

HGM Class: **Slope**

Dominant Plant Species: ***Osmunda cinnamomea, Acer rubrum, Vaccinium spp.***



Site ID: **LIRI 039**

Acreage: **0.10**

UTM Easting: **627131**

Northing: **3808750**

Cowardin Class: **PFO1C**

HGM Class: **Slope**

Dominant Plant Species: ***Osmunda cinnamomea, Athyrium filix-femina, Acer rubrum, Nyssa sylvatica, Chasmanthium laxum***



Site ID: LIRI 040
Acreage: 0.01
UTM Easting: 626610
Northing: 3807697

Cowardin Class: PFO1A
HGM Class: Slope

Dominant Plant Species: ***Osmunda cinnamomea, Athyrium filix-femina, Nyssa sylvatica, Acer rubrum***



Site ID: **LIRI 041**
Acreage: **0.03**
UTM Easting: **627777**
Northing: **3809912**

Cowardin Class: **PFO1A**
HGM Class: **Slope**

Dominant Plant Species: ***Nyssa sylvatica, Acer rubrum, Smilax rotundifolia, Osmunda cinnamomea***



Site ID: LIRI 042
Acreage: 0.04
UTM Easting: 627312
Northing: 3809968

Cowardin Class: PFO1A
HGM Class: Slope

Dominant Plant Species: ***Nyssa sylvatica, Vitis spp., Athyrium filix-femina***



Site ID: LIRI 043
Acreage: 0.04
UTM Easting: 629138
Northing: 3810483

Cowardin Class: PFO1A
HGM Class: Slope

Dominant Plant Species: ***Acer rubrum, Osmunda cinnamomea, Carex spp.***



Site ID: **LIRI 044**
Acreage: **0.17**
UTM Easting: **629411**
Northing: **3800575**

Cowardin Class: **PFO1A**
HGM Class: **Slope**

Dominant Plant Species: ***Acer rubrum, Athyrium filix-femina, Osmunda cinnamomea, Vitis spp.***



Site ID: LIRI 045
Acreage: 0.19
UTM Easting: 629055
Northing: 3810723

Cowardin Class: PFO1A
HGM Class: Slope

Dominant Plant Species: ***Nyssa sylvatica, Osmunda cinnamomea, Athyrium filix-femina, Acer rubrum, Smilax spp.***



Site ID: LIRI 046
Acreage: 0.10
UTM Easting: 629133
Northing: 3811910

Cowardin Class: PFO1A
HGM Class: Slope

Dominant Plant Species: ***Osmunda cinnamomea, Acer rubrum, Athyrium filix-femina***



Site ID: **LIRI 047**

Acreage: **0.12**

UTM Easting: **629702**

Northing: **3810988**

Cowardin Class: **PFO1A**

HGM Class: **Slope**

Dominant Plant Species: ***Nyssa sylvatica, Liquidambar styraciflua, Athyrium filix-femina, Osmunda cinnamomea, Acer rubrum***



Site ID: **LIRI 048**

Acreage: **0.63**

UTM Easting: **630062**

Northing: **3811342**

Cowardin Class: **PFO1A**

HGM Class: **Slope**

Dominant Plant Species: ***Nyssa sylvatica, Liquidambar styraciflua, Chasmanthium sessiliflorum, Acer rubrum, Arythium filix-femina***



Site ID: **LIRI 049**

Acreage: **0.19**

UTM Easting: **629779**

Northing: **3811665**

Cowardin Class: **PFO1C**

HGM Class: **Depression**

Dominant Plant Species: ***Athyrium filix-femina, Acer rubrum, Liriodendron tulipifera, Liquidambar styraciflua***



Site ID: **LIRI 050**

Acreage: **0.03**

UTM Easting: **630029**

Northing: **3812975**

Cowardin Class: **PFO1A**

HGM Class: **Slope**

Dominant Plant Species: ***Athyrium filix-femina, Nyssa sylvatica, Acer rubrum***



Site ID: **LIRI 051**

Acreage: **0.19**

UTM Easting: **629346**

Northing: **3810574**

Cowardin Class: **PFO1A**

HGM Class: **Slope**

Dominant Plant Species: ***Athyrium filix-femina, Osmunda cinnamomea, Acer rubrum, Liriodendron tulipifera***



Site ID: LIRI 052
Acreage: 0.17
UTM Easting: 629005
Northing: 3810893

Cowardin Class: PFO1A
HGM Class: Slope

Dominant Plant Species: ***Osmunda cinnamomea, Chasmanthium laxum, Acer rubrum, Quercus alba***



Site ID: **LIRI 053**

Acreage: **0.42**

UTM Easting: **629667**

Northing: **3811318**

Cowardin Class: **PFO1A**

HGM Class: **Slope**

Dominant Plant Species: ***Athyrium filix-femina, Osmunda cinnamomea, Acer rubrum, Panicum spp., Smilax spp.***



Site ID: **LIRI 054**

Acreage: **0.06**

UTM Easting: **629991**

Northing: **3811261**

Cowardin Class: **PFO1A**

HGM Class: **Slope**

Dominant Plant Species: ***Osmunda cinnamomea, Vitis spp., Acer rubrum, Liriodendron tulipifera***



Site ID: LIRI 055
Acreage: 0.04
UTM Easting: 630336
Northing: 3811966

Cowardin Class: PFO1A
HGM Class: Slope

Dominant Plant Species: ***Athyrium filix-femina, Osmunda cinnamomea, Acer rubrum, Panicum spp.***



Site ID: **LIRI 056**

Acreage: **0.07**

UTM Easting: **630353**

Northing: **3812143**

Cowardin Class: **PFO1A**

HGM Class: **Slope**

Dominant Plant Species: ***Athyrium filix-femina, Alnus serrulata, Osmunda cinnamomea, Acer rubrum***



Site ID: **LIRI 057**

Acreage: **1.69**

UTM Easting: **627616**

Northing: **3810905**

Cowardin Class: **PFO1C**

HGM Class: **Slope**

Dominant Plant Species: ***Liquidambar styraciflua, Acer drummondii, Agrostis stolinifera, Osmunda cinnamomea***



Site ID: LIRI 058
Acreage: 0.02
UTM Easting: 627458
Northing: 3810986

Cowardin Class: PFO1A
HGM Class: Depression

Dominant Plant Species: ***Nyssa sylvatica, Carex spp., Acer rubrum, Osmunda cinnamomea***



Site ID: **LIRI 059**

Acreage: **0.04**

UTM Easting: **628062**

Northing: **3810942**

Cowardin Class: PFO1C

HGM Class: Slope

Dominant Plant Species: ***Athyrium filix-femina, Smilax rotundifolia, Acer rubrum, Osmunda cinnamomea***



Site ID: **LIRI 060**

Acreage: **0.18**

UTM Easting: **630278**

Northing: **3813073**

Cowardin Class: **PFO1A**

HGM Class: **Slope**

Dominant Plant Species: ***Athyrium filix-femina, Acer rubrum, Liquidambar styraciflua, Osmunda cinnamomea***



Site ID: **LIRI 061**

Acreage: **0.02**

UTM Easting: **628629**

Northing: **3813782**

Cowardin Class: **PFO1A**

HGM Class: **Slope**

Dominant Plant Species: ***Athyrium filix-femina, Alnus serrulata, Liquidambar styraciflua, Acer rubrum, Arundinaria gigantea***



Site ID: **LIRI 062**

Acreage: **0.04**

UTM Easting: **629433**

Northing: **3813389**

Cowardin Class: **PFO1A**

HGM Class: **Slope**

Dominant Plant Species: ***Athyrium filix-femina, Calycanthus spp., Osmunda cinnamomea, Acer rubrum***



Site ID: **LIRI 063**

Acreage: **0.02**

UTM Easting: **629850**

Northing: **3813097**

Cowardin Class: **PFO1A**

HGM Class: **Slope**

Dominant Plant Species: ***Athyrium filix-femina, Vaccinium spp., Chasmanthium sessiliflorum, Liriodendron tulipifera***



Site ID: **LIRI 064**

Acreage: **0.04**

UTM Easting: **628927**

Northing: **3813710**

Cowardin Class: **PFO1A**

HGM Class: **Depression**

Dominant Plant Species: ***Chasmanthium laxum, Acer rubrum, Liquidambar styraciflua, Xanthorhiza simplicissima***



Site ID: LIRI 065
Acreage: 0.02
UTM Easting: 629374
Northing: 3813150

Cowardin Class: PFO1A
HGM Class: Slope

Dominant Plant Species: ***Osmunda cinnamomea, Alnus serrulata, Acer rubrum***



Site ID: **LIRI 066**

Acreage: **0.09**

UTM Easting: **629670**

Northing: **3813510**

Cowardin Class: **PFO1A**

HGM Class: **Slope**

Dominant Plant Species: ***Athyrium filix-femina, Sphagnum spp., Chasmanthium sessiliflorum, Acer rubrum***



Site ID: **LIRI 067**
Acreage: **0.01**
UTM Easting: **628199**
Northing: **3814994**

Cowardin Class: **PFO1C**
HGM Class: **Slope**

Dominant Plant Species: ***Lobelia cardinalis, Nyssa sylvatica, Lonicera japonica, Sphagnum spp.***



Site ID: **LIRI 068**

Acreage: **0.009**

UTM Easting: **626961**

Northing: **3806038**

Cowardin Class: **PFO1A**

HGM Class: **Depression**

Dominant Plant Species: ***Acer rubrum, Pinus taeda***



Site ID: LIRI 069
Acreage: 0.103
UTM Easting: 626867
Northing: 3805694

Cowardin Class: PFO1A
HGM Class: Slope

Dominant Plant Species: ***Acer rubrum, Pinus taeda, Panicum spp., Smilax rotundafolia***



Site ID: **LIRI 070**
Acreage: **0.009**
UTM Easting: **627205**
Northing: **3806192**

Cowardin Class: **PFO1A**
HGM Class: **Depression**

Dominant Plant Species: ***Acer rubrum, Rubus spp., Carex intumescens***



Site ID: **LIRI 71**

Acreage: **0.109**

UTM Easting: **627006**

Northing: **3806015**

Cowardin Class: **PFO1A**

HGM Class: **Slope**

Dominant Plant Species: ***Acer rubrum, Mitchella repens, Sphagnum spp.***



Site ID: **LIRI 072**

Acreage: **0.042**

UTM Easting: **627010**

Northing: **3805606**

Cowardin Class: **PFO1A**

HGM Class: **Slope**

Dominant Plant Species: ***Acer rubrum, Athyrium filix-femina***



Site ID: **LIRI 073**

Acreage: **0.431**

UTM Easting: **626765**

Northing: **3805500**

Cowardin Class: **PFO1A**

HGM Class: **Slope**

Dominant Plant Species: ***Acer rubrum, Sphagnum spp., Arundinaria gigantea***



Site ID: **LIRI 074**

Acreage: **0.074**

UTM Easting: **627210**

Northing: **3806290**

Cowardin Class: **PFO1A**

HGM Class: **Slope**

Dominant Plant Species: ***Sphagnum spp., Acer rubrum, Pinus taeda***



Site ID: **LIRI 075**

Acreage: **0.822**

UTM Easting: **627038**

Northing: **3805488**

Cowardin Class: **PFO1A**

HGM Class: **Slope**

Dominant Plant Species: ***Athyrium filix-femina, Osmunda cinnamomea, Onoclea sensibilis, Quercus alba, Liquidambar styraciflua, Acer rubrum, Nyssa sylvatica***



Site ID: **LIRI 076**

Acreage: **0.138**

UTM Easting: **626908**

Northing: **3805503**

Cowardin Class: **PFO1A**

HGM Class: **Slope**

Dominant Plant Species: ***Acer rubrum, Liquidambar styraciflua, Osmunda cinnamomea, Sphagnum spp.***



Site ID: **LIRI 077**

Acreage: **0.107**

UTM Easting: **626718**

Northing: **3805542**

Cowardin Class: **PFO1A**

HGM Class: **Slope**

Dominant Plant Species: ***Sphagnum spp., Acer rubrum, Quercus alba, Smilax ssp., Liquidambar styraciflua***



Site ID: **LIRI 078**

Acreage: **0.093**

UTM Easting: **627030**

Northing: **3805493**

Cowardin Class: **PFO1A**

HGM Class: **Slope**

Dominant Plant Species: ***Sphagnum spp., Acer rubrum, Quercus spp., Osmunda cinnamomea, Liquidambar styraciflua***



Site ID: **LIRI 079**

Acreage: **0.148**

UTM Easting: **627248**

Northing: **3806584**

Cowardin Class: **PFO1A**

HGM Class: **Slope**

Dominant Plant Species: ***Acer rubrum, Sphagnum spp.***



Site ID: **LIRI 080**

Acreage: **0.431**

UTM Easting: **626765**

Northing: **3805500**

Cowardin Class: **PFO1A**

HGM Class: **Slope**

Dominant Plant Species: ***Acer rubrum, Sphagnum spp., Arundinaria gigantea, Athyrium filix-femina***



Site ID: **LIRI 081**

Acreage: **0.383**

UTM Easting: **627246**

Northing: **3805462**

Cowardin Class: **PFO1A**

HGM Class: **Slope**

Dominant Plant Species: ***Athyrium filix-femina, Osmunda cinnamomea, Acer rubrum, Smilax rotundifolia, Sphagnum spp.***



Site ID: **LIRI 082**

Acreage: **0.398**

UTM Easting: **627185**

Northing: **3806574**

Cowardin Class: **PFO1A**

HGM Class: **Slope**

Dominant Plant Species: ***Athyrium filix-femina, Liriodendron tulipifera, Acer rubrum***



Site ID: **LIRI 083**

Acreage: **0.045**

UTM Easting: **627512**

Northing: **3806413**

Cowardin Class: **PFO1A**

HGM Class: **Slope**

Dominant Plant Species: ***Liquidambar styraciflua, Acer rubrum, Sphagnum spp.***



Site ID: **LIRI 084**

Acreage: **2.172**

UTM Easting: **627338**

Northing: **3805468**

Cowardin Class: **PFO1A**

HGM Class: **Slope**

Dominant Plant Species: ***Acer rubrum, Liquidambar styraciflua, Sphagnum spp., Vaccinium corymbosum, Smilax rotundifolia***



Site ID: **LIRI 085**

Acreage: **0.708**

UTM Easting: **626573**

Northing: **3805382**

Cowardin Class: **PFO1A**

HGM Class: **Slope**

Dominant Plant Species: ***Acer rubrum, Liquidambar styraciflua, Sphagnum spp., Vaccinium corymbosum, Smilax rotundifolia***



Site ID: **LIRI 086**

Acreage: **0.217**

UTM Easting: **627577**

Northing: **3806775**

Cowardin Class: **PFO1A**

HGM Class: **Slope**

Dominant Plant Species: ***Quercus alba, Pinus taeda, Sphagnum spp., Carex spp., Liquidambar styraciflua***



Site ID: **LIRI 087**

Acreage: **0.206**

UTM Easting: **627452**

Northing: **3806850**

Cowardin Class: **PFO1A**

HGM Class: Slope

Dominant Plant Species: ***Quercus alba, Acer rubrum, Pinus spp., Sphagnum spp., Carex spp., Liquidambar styraciflua, Athyrium filix-femina***



Site ID: **LIRI 088**

Acreage: **0.157**

UTM Easting: **627506**

Northing: **3806886**

Cowardin Class: **PFO1A**

HGM Class: Slope

Dominant Plant Species: ***Liquidambar styraciflua, Acer rubrum, Sphagnum spp., Quercus alba, Osmunda cinnamomea***



Site ID: **LIRI 089**

Acreage: **1.486**

UTM Easting: **627527**

Northing: **3807150**

Cowardin Class: **PFO1A**

HGM Class: **Depression**

Dominant Plant Species: ***Acer rubrum, Liquidambar styraciflua, Sphagnum spp., Smilax rotundifolia, Microstegium vimineum, Athyrium filix-femina***



Site ID: **LIRI 090**
Acreage: **0.136**
UTM Easting: **628786**
Northing: **3808680**

Cowardin Class: **PFO1A**
HGM Class: **Slope**

Dominant Plant Species: ***Quercus alba, Sphagnum spp., Acer saccharinum, Athyrium filix-femina, Plantanus occidentalis***



Site ID: **LIRI 091**

Acreage: **0.029**

UTM Easting: **627994**

Northing: **3807655**

Cowardin Class: **PFO1A**

HGM Class: **Slope**

Dominant Plant Species: ***Sphagnum spp., Acer rubrum, Oxydendrum arboreum, Nyssa sylvatica, Vaccinium corymbosum, Osmunda cinnamomea***



Site ID: **LIRI 092**

Acreage: **0.519**

UTM Easting: **627962**

Northing: **3807709**

Cowardin Class: **PFO1A**

HGM Class: Slope

Dominant Plant Species: ***Acer rubrum, Oxydendron arboreum, Nyssa sylvatica, Sphagnum spp.***



Site ID: **LIRI 093**

Acreage: **0.848**

UTM Easting: **628619**

Northing: **3807962**

Cowardin Class: **PFO1A**

HGM Class: **Slope**

Dominant Plant Species: ***Osmunda cinnamomea, Acer rubrum, Pinus taeda, Sphagnum spp., Liquidambar styraciflua***



Site ID: **LIRI 094**

Acreage: **0.193**

UTM Easting: **628401**

Northing: **3807014**

Cowardin Class: **PFO1A**

HGM Class: **Slope**

Dominant Plant Species: ***Acer rubrum, Nyssa sylvatica, Sphagnum spp., Oxydendron arboreum, Pinus taeda***



Site ID: **LIRI 095**
Acreage: **0.717**
UTM Easting: **628207**
Northing: **3807142**

Cowardin Class: **PFO1A**
HGM Class: **Slope**

Dominant Plant Species: ***Osmunda cinnamomea, Acer rubrum, Athyrium filix-femina, Arundinaria gigantea***



Site ID: LIRI 096
Acreage: 0.094
UTM Easting: 629042
Northing: 3808438

Cowardin Class: PFO1A
HGM Class: Slope

Dominant Plant Species: ***Sphagnum spp., Liquidambar styraciflua, Acer rubrum***



Site ID: **LIRI 097**

Acreage: **0.157**

UTM Easting: **629010**

Northing: **3808740**

Cowardin Class: **PFO1A**

HGM Class: **Slope**

Dominant Plant Species: ***Sphagnum spp., Acer rubrum, Pinus taeda, Athyrium filix-femina***



Site ID: **LIRI 098**

Acreage: **0.218**

UTM Easting: **628453**

Northing: **3807526**

Cowardin Class: **PFO1C**

HGM Class: **Slope**

Dominant Plant Species: ***Acer rubrum, Arundinaria gigantea, Quercus phellos, Panicum spp.***



Site ID: **LIRI 099**

Acreage: **0.437**

UTM Easting: **628984**

Northing: **3809132**

Cowardin Class: **PFO1A**

HGM Class: **Slope**

Dominant Plant Species: ***Acer rubrum, Arundinaria gigantea, Quercus phellos, Oxydendrum arboreum, Osmunda cinnamomea***



Site ID: **LIRI 100**

Acreage: **2.19**

UTM Easting: **630716**

Northing: **3810246**

Cowardin Class: **PFO1C**

HGM Class: **Slope**

Dominant Plant Species: ***Acer rubrum, Oxydendrum arboreum, Sphagnum spp., Athyrium filix-femina***



Site ID: **LIRI 101**

Acreage: **0.695**

UTM Easting: **630462**

Northing: **3809988**

Cowardin Class: **PFO1A**

HGM Class: **Slope**

Dominant Plant Species: ***Nyssa sylvatica, Quercus alba, Sphagnum spp., Osmunda cinnamomea, Athyrium filix-femina***



Site ID: **LIRI 102**

Acreage: **7.21**

UTM Easting: **630198**

Northing: **3809725**

Cowardin Class: **PFO1E**

HGM Class: **Slope**

Dominant Plant Species: ***Nyssa sylvatica, Quercus alba, Sphagnum spp., Athyrium filix-femina, Typha latifolia, Scripus cyperinus, Acer rubrum***



Site ID: **LIRI 103**

Acreage: **0.215**

UTM Easting: **629846**

Northing: **3809846**

Cowardin Class: **PEM1A**

HGM Class: **Slope**

Dominant Plant Species: ***Athyrium filix-femina, Acer rubrum, Liquidambar styraciflua, Nyssa sylvatica, Carex spp., Toxidendron radicans***



Site ID: LIRI 104
Acreage: 3.82
UTM Easting: 629598
Northing: 3809616

Cowardin Class: PFO1A
HGM Class: Slope

Dominant Plant Species: *Acer rubrum, Quercus phellos, Cephalanthus occidentalis, Carex spp., Athyrium filix-femina*



Site ID: **LIRI 105**

Acreage: **0.247**

UTM Easting: **630367**

Northing: **3810891**

Cowardin Class: **PFO1C**

HGM Class: **Slope**

Dominant Plant Species: ***Alnus serrulata, Acer rubrum, Carex spp., Impatiens capensis, Rhyncospora spp., Athyrium filix-femina***



Site ID: **LIRI 106**
Acreage: **0.169**
UTM Easting: **631099**
Northing: **3810158**

Cowardin Class: **PFO1A**
HGM Class: **Slope**

Dominant Plant Species: ***Athyrium filix-femina, Nyssa sylvatica, Acer rubrum, Liquidambar styraciflua, Osmunda cinnamomea***



Site ID: LIRI 107
Acreage: 1.349
UTM Easting: 631425
Northing: 3810309

Cowardin Class: PFO1C
HGM Class: Slope

Dominant Plant Species: ***Athyrium filix-femina, Acer rubrum, Carex spp., Scripus cyperinus, Carpinus caroliniana***



Site ID: **LIRI 108**

Acreage: **0.85**

UTM Easting: **631530**

Northing: **3813079**

Cowardin Class: **PFO1A**

HGM Class: **Slope**

Dominant Plant Species: ***Athyrium filix-femina, Arundinaria gigantea, Quercus alba, Acer rubrum***



Site ID: **LIRI 109**

Acreage: **0.32**

UTM Easting: **631719**

Northing: **3811704**

Cowardin Class: **PFO1A**

HGM Class: **Slope**

Dominant Plant Species: ***Athyrium filix-femina, Sphagnum spp., Acer rubrum***



Site ID: **LIRI 110**

Acreage: **0.097**

UTM Easting: **630321**

Northing: **3813445**

Cowardin Class: **PFO1A**

HGM Class: **Slope**

Dominant Plant Species: ***Athyrium filix-femina, Liriodendron tulipifera, Acer rubrum, Liquidambar styraciflua, Carex spp.***



Site ID: **LIRI 111**

Acreage: **0.969**

UTM Easting: **630975**

Northing: **3814057**

Cowardin Class: **PFO1A**

HGM Class: **Slope**

Dominant Plant Species: ***Athyrium filix-femina, Liriodendron tulipifera, Acer rubrum, Liquidambar styraciflua***



Site ID: **LIRI 112**
Acreage: **0.293**
UTM Easting: **631007**
Northing: **3813539**

Cowardin Class: **PFO1A**
HGM Class: **Slope**

Dominant Plant Species: ***Osmunda cinnamomea, Acer rubrum, Liriodendron tulipifera, Liquidambar styraciflua***



Site ID: **LIRI 113**
Acreage: **0.47**
UTM Easting: **630282**
Northing: **3813772**

Cowardin Class: **PFO1A**
HGM Class: **Depression**

Dominant Plant Species: ***Liquidambar styraciflua, Pinus taeda, Carex spp., Athyrium filix-femina, Acer rubrum***



Site ID: LIRI 114
Acreage: 0.049
UTM Easting: 628602
Northing: 3809530

Cowardin Class: PFO1A
HGM Class: Slope

Dominant Plant Species: ***Osmunda cinnamomea, Osmunda regalis, Nyssa sylvatica, Vitis spp., Acer rubrum, Liquidambar styraciflua***



Site ID: **LIRI 115**
Acreage: **0.018**
UTM Easting: **628898**
Northing: **3809484**

Cowardin Class: **PFO1A**
HGM Class: **Slope**

Dominant Plant Species: ***Acer rubrum, Chasmanthium sessiliforum, Nyssa sylvatica***



Site ID: **LIRI 116**

Acreage: **1.85**

UTM Easting: **621797**

Northing: **3801291**

Cowardin Class: **R3RB1**

HGM Class: **Riverine**

Dominant Plant Species: ***Betula nigra, Cephalanthus occidentalis, Plantanus occidentalis,***



Site ID: **LIRI 117**

Acreage: **0.62**

UTM Easting: **622132**

Northing: **3800955**

Cowardin Class: **R3RB1**

HGM Class: **Riverine**

Dominant Plant Species: ***Betula nigra, Cephalanthus occidentalis, Plantanus occidentalis, Justicia americana***



Site ID: **LIRI 118**

Acreage: **0.49**

UTM Easting: **622204**

Northing: **3798623**

Cowardin Class: **R3RB1**

HGM Class: **Riverine**

Dominant Plant Species: ***Betula nigra, Cephalanthus occidentalis, Plantanus occidentalis, Justicia americana***



Site ID: **LIRI 119**

Acreage: **1.48**

UTM Easting: **620545**

Northing: **3795428**

Cowardin Class: **R3RB1**

HGM Class: **Riverine**

Dominant Plant Species: ***Betula nigra, Cephalanthus occidentalis, Plantanus occidentalis, Panicum spp.***



Site ID: **LIRI 120**

Acreage: **1.23**

UTM Easting: **621342**

Northing: **3795016**

Cowardin Class: **PSS1E**

HGM Class: **Slope**

Dominant Plant Species: ***Salix nigra, Cephalanthus occidentalis, Plantanus occidentalis, Typha latifolia, Scripus cyperinus***



Site ID: LIRI 121
Acreage: 1.23
UTM Easting: 626103
Northing: 3804665

Cowardin Class: R3RB1
HGM Class: Riverine

Dominant Plant Species: *Justicia americana*



Site ID: **LIRI 122**

Acreage: **1.73**

UTM Easting: **625936**

Northing: **3804315**

Cowardin Class: **R3RB1**

HGM Class: **Riverine**

Dominant Plant Species: ***Betula nigra, Cephalanthus occidentalis, Plantanus occidentalis, Acer rubrum, Alnus serrulata***



Site ID: **LIRI 123**

Acreage: **2.22**

UTM Easting: **625386**

Northing: **3803617**

Cowardin Class: R3RB1

HGM Class: Riverine

Dominant Plant Species: ***Panicum spp., Betula nigra, Acer rubrum, Cephalanthus occidentalis***



Site ID: LIRI 124
Acreage: 0.11
UTM Easting: 631794
Northing: 3815695

Cowardin Class: PFO1A
HGM Class: Slope

Dominant Plant Species: ***Acer rubrum, Athyrium filix-femina, Panicum spp.***



Site ID: **LIRI 125**
Acreage: **1.70**
UTM Easting: **621358**
Northing: **3794302**

Cowardin Class: **PFO1C**
HGM Class: **Slope**

Dominant Plant Species: ***Quercus phellos, Nyssa sylvatica, Sphagnum spp.***



Site ID: LIRI 126
Acreage: 0.16
UTM Easting: 628358
Northing: 3813972

Cowardin Class: PFO1A
HGM Class: Slope

Dominant Plant Species: ***Acer rubrum, Liquidambar styraciflua, Athyrium filix-femina***



Site ID: **LIRI 127**

Acreage: **0.15**

UTM Easting: **628122**

Northing: **3817494**

Cowardin Class: **PFO1A**

HGM Class: **Depression**

Dominant Plant Species: ***Scripus cyperinus, Aster spp., Rubus spp., Liriodendron tulipifera, Toxicodendron radicans***

APPENDIX B
(Attribute Table)

FID	SITE_ID	UTM_EASTING	UTM_NORTHING	ACREAGE	COWARDIN_ CLASS	HGM_CLASS	SURFACE_ WATER	GROUND_WATER_ DISCHARGE	CARBONINUTIENT	PROVIDE_ WILDLIFE	SUPPORT_ WETLAND	CULTURAL_ VALUE	RESEARCHSCIENTIFIC	ECONOMIC_ VALUE	EXOTICS_PRESENT	PATH_NAME
0	LIRI 01	625871	3806895	0.22	PFO1A	Slope	N/A	N/A	Low	Medium	High	Yes-Adjacent to road/interpretation	Yes-Unique plant present	No	No	C:\LIRI\GIS_DATA\Hyperlinks\LIRI 001.tif
1	LIRI 02	625711	3806935	0.06	PFO1A	Slope	Low	N/A	Low	Low	Low	Yes-Adjacent to road/interpretation	No	No	No	C:\LIRI\GIS_DATA\Hyperlinks\LIRI 002.tif
2	LIRI 03	625526	3806973	0.44	PFO1A	Slope	Low	N/A	Low	Medium	Low	Yes-Near road/interpretation	No	No	No	C:\LIRI\GIS_DATA\Hyperlinks\LIRI 003.tif
3	LIRI 04	625868	3806820	0.02	PSS1A	Slope	N/A	N/A	Low	Medium	Low	No	No	No	No	C:\LIRI\GIS_DATA\Hyperlinks\LIRI 004.tif
4	LIRI 05	625487	3806309	0.29	PFO1C	Slope	Low	N/A	Low	Medium	High	Yes-Adjacent to trail/interpretation	Yes-Herpetological research, Unique plant present	No	No	C:\LIRI\GIS_DATA\Hyperlinks\LIRI 005.tif
5	LIRI 06	625953	3806348	1.86	PFO1C	Slope	Low	High	High	High	Low	Yes-Portion of site adjacent to road/interpretation	Yes-Larger than average	No	No	C:\LIRI\GIS_DATA\Hyperlinks\LIRI 006.tif
6	LIRI 07	626050	3805699	1.69	PFO1A	Slope	N/A	N/A	N/A	Medium	High	No	Yes-Unique plant present	No	No	C:\LIRI\GIS_DATA\Hyperlinks\LIRI 007.tif
7	LIRI 08	626208	3805755	0.74	PFO1A	Slope	N/A	N/A	Low	Medium	High	No	Yes-Larger than average size, unique plant present	No	No	C:\LIRI\GIS_DATA\Hyperlinks\LIRI 008.tif
8	LIRI 09	626211	3805966	0.85	PFO1A	Slope	N/A	N/A	Low	Medium	High	Yes-Adjacent to road/interpretation	Yes-Larger than average size, unique plant present	No	No	C:\LIRI\GIS_DATA\Hyperlinks\LIRI 009.tif
9	LIRI 10	626432	3806364	1.38	PFO1A	Slope	N/A	Medium	Medium	Medium	Medium	Yes-Adjacent to road/interpretation	Yes-Larger than average size	No	No	C:\LIRI\GIS_DATA\Hyperlinks\LIRI 010.tif
10	LIRI 11	625904	3805658	0.06	PSS1A	Slope	Low	N/A	Low	Low	High	Yes-Adjacent to trail/interpretation	Yes-Unique plant present	No	No	C:\LIRI\GIS_DATA\Hyperlinks\LIRI 011.tif
11	LIRI 12	625863	3805615	0.04	PFO1A	Slope	N/A	Low	Low	Medium	High	Yes-Near trail/interpretation	Yes-Herpetological research, unique plant present	No	No	C:\LIRI\GIS_DATA\Hyperlinks\LIRI 012.tif
12	LIRI 13	625759	3805624	0.04	PFO1A	Slope	N/A	Low	Medium	Medium	High	No	Yes-Herpetological research,unique plant present	No	No	C:\LIRI\GIS_DATA\Hyperlinks\LIRI 013.tif
13	LIRI 14	625491	3805576	12.2	PSS1E	Depression	High	Low	Medium	High	High	Yes-Adjacent to trail/interpretation	Yes-Herpetological research, above average size	No	Yes-Japanese honeysuckle	C:\LIRI\GIS_DATA\Hyperlinks\LIRI 014.tif
14	LIRI 15	625678	3805089	0.11	PFO1A	Slope	N/A	Low	Low	Medium	Low	No	No	No	No	C:\LIRI\GIS_DATA\Hyperlinks\LIRI 015.tif
15	LIRI 16	625750	3807570	0.01	R3RB1	Riverine	High	N/A	High	High	High	No	Yes-Unique plant present	No	No	C:\LIRI\GIS_DATA\Hyperlinks\LIRI 016.tif
16	LIRI 17	626659	3807800	0.12	PFO1A	Depression	High	Low	N/A	High	Low	No	No	No	No	C:\LIRI\GIS_DATA\Hyperlinks\LIRI 017.tif
17	LIRI 18	626776	3807449	0.05	PFO1A	Slope	N/A	Low	Medium	Medium	Low	No	Yes-Herpetological research	No	No	C:\LIRI\GIS_DATA\Hyperlinks\LIRI 018.tif
18	LIRI 19	626891	3807262	0.03	PFO1A	Slope	N/A	N/A	Low	Low	Low	No	No	No	No	C:\LIRI\GIS_DATA\Hyperlinks\LIRI 019.tif
19	LIRI 20	625657	3804886	0.09	PFO1A	Slope	Low	Low	Low	Medium	Low	No	No	No	No	C:\LIRI\GIS_DATA\Hyperlinks\LIRI 020.tif
20	LIRI 21	625839	3807045	0.15	PFO1C	Slope	Low	N/A	Low	Medium	Low	Yes-Adjacent to road/interpretation	Yes-Herpetological research	No	No	C:\LIRI\GIS_DATA\Hyperlinks\LIRI 021.tif
21	LIRI 22	625838	3807165	0.01	PFO1A	Slope	Low	N/A	N/A	Low	Low	No	No	No	Yes-Japanese Honeysuckle	C:\LIRI\GIS_DATA\Hyperlinks\LIRI 022.tif
22	LIRI 23	626654	3807138	0.11	PFO1A	Depression	High	Low	Low	High	Low	No	Yes- Herpetological research	No	No	C:\LIRI\GIS_DATA\Hyperlinks\LIRI 023.tif
23	LIRI 24	626449	3807245	0.1	PFO1C	Slope	Low	Low	Low	Medium	Low	No	Yes-Herpetological research	No	Yes-Privet	C:\LIRI\GIS_DATA\Hyperlinks\LIRI 024.tif
24	LIRI 25	625571	3807300	0.2	PFO1A	Slope	N/A	Low	Low	Low	Low	No	No	No	No	C:\LIRI\GIS_DATA\Hyperlinks\LIRI 025.tif
25	LIRI 26	625572	3807298	0.05	PSS1C	Slope	N/A	Low	Low	High	Medium	No	Yes-Herpetological research	No	No	C:\LIRI\GIS_DATA\Hyperlinks\LIRI 026.tif
26	LIRI 27	625783	3807262	0.1	PFO1A	Slope	Low	N/A	N/A	Low	Low	No	No	No	No	C:\LIRI\GIS_DATA\Hyperlinks\LIRI 027.tif
27	LIRI 28	626753	3807470	0.12	PFO1A	Slope	N/A	Medium	Low	Low	Low	No	No	No	No	C:\LIRI\GIS_DATA\Hyperlinks\LIRI 028.tif
28	LIRI 29	626985	3807338	0.07	PFO1A	Slope	N/A	Low	Low	Low	Medium	No	No	No	No	C:\LIRI\GIS_DATA\Hyperlinks\LIRI 029.tif
29	LIRI 30	627144	3807227	0.38	PFO1A	Slope	N/A	Low	N/A	Low	Low	No	Yes-Larger than average size	No	No	C:\LIRI\GIS_DATA\Hyperlinks\LIRI 030.tif
30	LIRI 31	627279	3807453	0.15	PFO1A	Slope	N/A	Low	Low	Medium	Low	No	Yes-Herpetological research	No	No	C:\LIRI\GIS_DATA\Hyperlinks\LIRI 031.tif

31	LIRI 32	627248	3807334	0.05	PFO1A	Depression	Low	N/A	N/A	Low	Low	No	No	No	No	C:\LIRI\GIS_DATA\Hyperlinks\LIRI 032.tif
32	LIRI 33	628262	3809075	0.09	PFO1A	Slope	N/A	Low	Low	Low	Low	No	No	No	No	C:\LIRI\GIS_DATA\Hyperlinks\LIRI 033.tif
33	LIRI 34	628050	3809177	0.07	PFO1A	Slope	N/A	Low	Low	Low	Low	No	No	No	No	C:\LIRI\GIS_DATA\Hyperlinks\LIRI 034.tif
34	LIRI 35	628662	3809675	0.02	PFO1A	Depression	Low	N/A	N/A	Low	Low	No	No	No	No	C:\LIRI\GIS_DATA\Hyperlinks\LIRI 035.tif
35	LIRI 36	628787	3809751	0.55	PFO1A	Slope	Low	Low	Low	Low	Low	Yes-Adjacent to trail/interpretation	Yes-Larger than average size	No	No	C:\LIRI\GIS_DATA\Hyperlinks\LIRI 036.tif
36	LIRI 37	627581	3808906	0.02	PFO1C	Slope	Low	Medium	Medium	Medium	Low	No	Yes-Herpetological research	No	No	C:\LIRI\GIS_DATA\Hyperlinks\LIRI 037.tif
37	LIRI 38	627085	3808895	0.01	PFO1C	Slope	N/A	Low	Low	Medium	Medium	No	Yes-Herpetological research	No	No	C:\LIRI\GIS_DATA\Hyperlinks\LIRI 038.tif
38	LIRI 39	627131	3808750	0.1	PFO1C	Slope	Low	Medium	Medium	Medium	Low	No	Yes-Herpetological research	No	No	C:\LIRI\GIS_DATA\Hyperlinks\LIRI 039.tif
39	LIRI 40	626610	3807697	0.01	PFO1A	Slope	Low	Low	Low	Low	Low	No	No	No	No	C:\LIRI\GIS_DATA\Hyperlinks\LIRI 040.tif
40	LIRI 41	627777	3809912	0.03	PFO1A	Slope	Low	Low	Low	Low	Low	No	No	No	No	C:\LIRI\GIS_DATA\Hyperlinks\LIRI 041.tif
41	LIRI 42	627312	3809968	0.04	PFO1A	Slope	Low	Low	Low	Low	Low	No	No	No	No	C:\LIRI\GIS_DATA\Hyperlinks\LIRI 042.tif
42	LIRI 43	629138	3810483	0.04	PFO1A	Slope	Low	Low	Low	Low	Low	Yes-Adjacent to road/interpretation	No	No	No	C:\LIRI\GIS_DATA\Hyperlinks\LIRI 043.tif
43	LIRI 44	629411	3810575	0.17	PFO1A	Slope	Low	Low	Low	Low	Low	No	No	No	No	C:\LIRI\GIS_DATA\Hyperlinks\LIRI 044.tif
44	LIRI 45	629055	3810723	0.19	PFO1A	Slope	Low	Medium	Medium	Low	Low	No	No	No	No	C:\LIRI\GIS_DATA\Hyperlinks\LIRI 045.tif
45	LIRI 46	629133	3811910	0.1	PFO1A	Slope	Low	Low	Low	Low	Low	Yes-Near road/interpretation	No	No	No	C:\LIRI\GIS_DATA\Hyperlinks\LIRI 046.tif
46	LIRI 47	629702	3810988	0.12	PFO1A	Slope	Low	Low	Low	Low	Low	Yes-Near road/interpretation	No	No	No	C:\LIRI\GIS_DATA\Hyperlinks\LIRI 047.tif
47	LIRI 48	630062	3811342	0.63	PFO1A	Slope	Low	Low	Low	Low	Low	No	Yes-Larger than average size	No	No	C:\LIRI\GIS_DATA\Hyperlinks\LIRI 048.tif
48	LIRI 49	629779	3811665	0.19	PFO1C	Depression	High	Low	Low	Medium	Low	No	Yes-Larger than average size	No	No	C:\LIRI\GIS_DATA\Hyperlinks\LIRI 049.tif
49	LIRI 50	630029	3812975	0.03	PFO1A	Slope	N/A	Low	Low	Low	Low	No	No	No	No	C:\LIRI\GIS_DATA\Hyperlinks\LIRI 050.tif
50	LIRI 51	629346	3810574	0.19	PFO1A	Slope	Low	Low	Low	Medium	Low	No	Yes-Larger than averega size, Herpetological research	No	No	C:\LIRI\GIS_DATA\Hyperlinks\LIRI 051.tif
51	LIRI 52	629005	3810893	0.17	PFO1A	Slope	Low	High	High	Low	Low	No	Yes-Larger than average size	No	No	C:\LIRI\GIS_DATA\Hyperlinks\LIRI 052.tif
52	LIRI 53	629667	3811318	0.42	PFO1A	Slope	Low	High	High	Low	Low	No	Yes-Larger than avergae size	No	No	C:\LIRI\GIS_DATA\Hyperlinks\LIRI 053.tif
53	LIRI 54	629991	3811261	0.06	PFO1A	Slope	N/A	N/A	N/A	Low	Low	No	No	No	No	C:\LIRI\GIS_DATA\Hyperlinks\LIRI 054.tif
54	LIRI 55	630336	3811966	0.04	PFO1A	Slope	N/A	N/A	Low	Low	Medium	No	No	No	No	C:\LIRI\GIS_DATA\Hyperlinks\LIRI 055.tif
55	LIRI 56	630353	3812143	0.07	PFO1A	Slope	Low	N/A	Low	Low	Medium	No	No	No	No	C:\LIRI\GIS_DATA\Hyperlinks\LIRI 056.tif
56	LIRI 57	627616	3810905	1.69	PFO1C	Slope	High	Low	Low	High	High	No	Yes-Larger than average size,Herpetological research	No	No	C:\LIRI\GIS_DATA\Hyperlinks\LIRI 057.tif
57	LIRI 58	627458	3810986	0.02	PFO1A	Depression	High	Low	Low	Medium	Low	No	No	No	No	C:\LIRI\GIS_DATA\Hyperlinks\LIRI 058.tif
58	LIRI 59	628062	3810942	0.04	PFO1C	Slope	Low	Medium	Low	Low	Low	No	No	No	No	C:\LIRI\GIS_DATA\Hyperlinks\LIRI 059.tif
59	LIRI 60	630278	3813073	0.18	PFO1A	Slope	Low	Low	Low	Medium	Medium	No	No	No	No	C:\LIRI\GIS_DATA\Hyperlinks\LIRI 060.tif
60	LIRI 61	628629	3813782	0.02	PFO1A	Slope	Low	Low	Low	Medium	Low	No	No	No	No	C:\LIRI\GIS_DATA\Hyperlinks\LIRI 061.tif
61	LIRI 62	629433	3813389	0.04	PFO1A	Slope	N/A	N/A	N/A	Low	Low	No	No	No	No	C:\LIRI\GIS_DATA\Hyperlinks\LIRI 062.tif
62	LIRI 63	629850	3813097	0.02	PFO1A	Slope	Low	Low	Low	Low	Low	No	No	No	No	C:\LIRI\GIS_DATA\Hyperlinks\LIRI 063.tif

63	LIRI 64	628927	3813710	0.04	PFO1A	Depression	High	Low	Low	Medium	Low	No	Yes-Herpetological research	No	No	C:\LIRI\GIS_DATA\Hyperlinks\LIRI 064.tif
64	LIRI 65	629374	3813150	0.02	PFO1A	Slope	N/A	Medium	Medium	Low	Medium	No	No	No	No	C:\LIRI\GIS_DATA\Hyperlinks\LIRI 065.tif
65	LIRI 66	629670	3813510	0.09	PFO1A	Slope	Low	High	High	Medium	Low	No	No	No	No	C:\LIRI\GIS_DATA\Hyperlinks\LIRI 066.tif
66	LIRI 67	628199	3814994	0.01	PFO1C	Slope	High	Low	High	High	Medium	Yes-Adjacent to trail/interpretation	Yes-Herpetological research	No	Yes-Japanese honeysuckle	C:\LIRI\GIS_DATA\Hyperlinks\LIRI 067.tif
67	LIRI 68	626961	3806038	0.009	PFO1A	Depression	N/A	N/A	N/A	Low	Low	No	No	No	No	C:\LIRI\GIS_DATA\Hyperlinks\LIRI 068.tif
68	LIRI 69	626867	3805694	0.103	PFO1A	Slope	Low	High	High	Medium	Medium	No	No	No	No	C:\LIRI\GIS_DATA\Hyperlinks\LIRI 069.tif
69	LIRI 70	627205	3806192	0.009	PFO1A	Depression	High	N/A	N/A	Low	Low	No	No	No	Yes-Lonicera japonica	C:\LIRI\GIS_DATA\Hyperlinks\LIRI 070.tif
70	LIRI 71	627006	3806015	0.109	PFO1A	Slope	Low	N/A	Low	Medium	Low	No	No	No	No	C:\LIRI\GIS_DATA\Hyperlinks\LIRI 071.tif
71	LIRI 72	627010	3805606	0.042	PFO1A	Slope	Low	N/A	Medium	Medium	Medium	No	No	No	No	C:\LIRI\GIS_DATA\Hyperlinks\LIRI 072.tif
72	LIRI 73	627209	3806285	0.431	PFO1A	Slope	N/A	N/A	N/A	Low	Low	No	No	No	No	C:\LIRI\GIS_DATA\Hyperlinks\LIRI 073.tif
73	LIRI 74	627210	3806290	0.074	PFO1A	Slope	Low	N/A	N/A	Low	Low	Yes-Larger than average	No	No	No	C:\LIRI\GIS_DATA\Hyperlinks\LIRI 074.tif
74	LIRI 75	627038	3805488	0.822	PFO1A	Slope	Low	Low	Low	N	Medium	No	No	No	No	C:\LIRI\GIS_DATA\Hyperlinks\LIRI 075.tif
75	LIRI 76	626908	3805503	0.138	PFO1A	Slope	N/A	N/A	Low	Low	Low	No	No	No	No	C:\LIRI\GIS_DATA\Hyperlinks\LIRI 076.tif
76	LIRI 77	626718	3805542	0.107	PFO1A	Slope	Low	N/A	N/A	Low	High	No	No	No	No	C:\LIRI\GIS_DATA\Hyperlinks\LIRI 077.tif
77	LIRI 78	627030	3805493	0.093	PFO1A	Slope	Low	N/A	N/A	Low	High	No	No	No	No	C:\LIRI\GIS_DATA\Hyperlinks\LIRI 078.tif
78	LIRI 79	627248	3806584	0.148	PFO1A	Slope	Low	N/A	N/A	Low	High	No	No	No	No	C:\LIRI\GIS_DATA\Hyperlinks\LIRI 079.tif
79	LIRI 80	626765	3805500	0.431	PFO1A	Slope	Low	N/A	Low	Low	Low	No	No	No	No	C:\LIRI\GIS_DATA\Hyperlinks\LIRI 080.tif
80	LIRI 81	627246	3805462	0.383	PFO1A	Slope	Low	N/A	Low	Low	Medium	Yes-Larger than average size	No	No	No	C:\LIRI\GIS_DATA\Hyperlinks\LIRI 081.tif
81	LIRI 82	627185	3806574	0.398	PFO1A	Slope	Low	N/A	High	Medium	Low	Yes- next to road	No	No	No	C:\LIRI\GIS_DATA\Hyperlinks\LIRI 082.tif
82	LIRI 83	627512	3806413	0.045	PFO1A	Slope	Low	N/A	Low	Low	Low	No	No	No	No	C:\LIRI\GIS_DATA\Hyperlinks\LIRI 083.tif
83	LIRI 84	627338	3805468	2.172	PFO1A	Slope	N/A	N/A	N/A	Low	Low	Yes-larger than average size	No	No	Yes- Lonceria japonica	C:\LIRI\GIS_DATA\Hyperlinks\LIRI 084.tif
84	LIRI 85	626573	3805382	0.708	PFO1A	Slope	N/A	N/A	N/A	Low	Low	No	No	No	Yes- Lonceria japonica	C:\LIRI\GIS_DATA\Hyperlinks\LIRI 085.tif
85	LIRI 86	627577	3806775	0.217	PFO1A	Slope	Low	N/A	N/A	Low	High	No	No	No	No	C:\LIRI\GIS_DATA\Hyperlinks\LIRI 086.tif
86	LIRI 87	627452	3806850	0.206	PFO1A	Slope	Low	N/A	N/A	Low	High	No	No	No	No	C:\LIRI\GIS_DATA\Hyperlinks\LIRI 087.tif
87	LIRI 88	627506	3806886	0.157	PFO1A	Slope	Low	N/A	Medium	Medium	Medium	No	No	No	No	C:\LIRI\GIS_DATA\Hyperlinks\LIRI 088.tif
88	LIRI 89	627527	3807150	1.486	PFO1A	Depression	High	High	Medium	Low	Low	Yes-Larger than average size	No	No	Yes- Lonceria japonica	C:\LIRI\GIS_DATA\Hyperlinks\LIRI 089.tif
89	LIRI 90	628786	3808680	0.136	PFO1A	Slope	Low	Low	Low	Low	Medium	Yes-Larger than average size	No	No	No	C:\LIRI\GIS_DATA\Hyperlinks\LIRI 090.tif
90	LIRI 91	627994	3807655	0.029	PFO1A	Slope	Low	Low	Low	Low	Low	No	No	No	No	C:\LIRI\GIS_DATA\Hyperlinks\LIRI 091.tif
91	LIRI 92	627962	3807709	0.519	PFO1A	Slope	Low	Low	Low	Low	Low	No	No	No	No	C:\LIRI\GIS_DATA\Hyperlinks\LIRI 092.tif
92	LIRI 93	628619	3807962	0.848	PFO1A	Slope	High	N/A	Medium	Medium	High	Yes-Larger than average size	No	No	No	C:\LIRI\GIS_DATA\Hyperlinks\LIRI 093.tif
93	LIRI 94	628401	3807014	0.193	PFO1A	Slope	Low	Medium	Low	Low	Low	No	No	No	No	C:\LIRI\GIS_DATA\Hyperlinks\LIRI 094.tif
94	LIRI 95	628207	3807142	0.717	PFO1A	Slope	Low	N/A	N/A	Low	High	Yes-Pitcher plant present	Yes-Herpetological Research	No	No	C:\LIRI\GIS_DATA\Hyperlinks\LIRI 095.tif

95	LIRI 96	629042	3808438	0.094	PFO1A	Slope	Low	N/A	Low	Low	Low	No	No	No	No	C:\LIRI\GIS_DATA\Hyperlinks\LIRI 096.tif
96	LIRI 97	629010	3808740	0.157	PFO1A	Slope	Low	N/A	Low	Low	Low	No	No	No	No	C:\LIRI\GIS_DATA\Hyperlinks\LIRI 097.tif
97	LIRI 98	628453	3807526	0.218	PFO1C	Slope	N/A	Low	N/A	Low	Low	No	No	No	Yes- Lonceria japonica	C:\LIRI\GIS_DATA\Hyperlinks\LIRI 098.tif
98	LIRI 99	628984	3809132	0.437	PFO1A	Slope	N/A	Low	N/A	Low	Low	No	No	No	Yes- Lonceria japonica	C:\LIRI\GIS_DATA\Hyperlinks\LIRI 099.tif
99	LIRI 100	630716	3810246	2.19	PFO1C	Slope	Low	Low	Low	Medium	Medium	Yes-Larger than average size	No	No	No	C:\LIRI\GIS_DATA\Hyperlinks\LIRI 100.tif
100	LIRI 101	630462	3809988	0.695	PFO1A	Slope	Low	N/A	N/A	Low	High	Yes-Larger than average size	No	No	No	C:\LIRI\GIS_DATA\Hyperlinks\LIRI 101.tif
101	LIRI 102	630198	3809725	7.21	PFO1E	Slope	High	N/A	N/A	High	High	Yes- Beaver Pond	Yes-Herpetological Research, Fish Present	No	No	C:\LIRI\GIS_DATA\Hyperlinks\LIRI 102.tif
102	LIRI 103	629846	3809846	0.215	PEM1A	Slope	Low	N/A	Medium	Low	Medium	No	No	No	No	C:\LIRI\GIS_DATA\Hyperlinks\LIRI 103.tif
103	LIRI 104	629598	3809616	3.82	PFO1A	Slope	High	High	Medium	High	High	Yes- Beaver Pond	Yes-Herpetological Research, Fish Present	Yes-Larger than Average Size	Yes- Lonceria japonica	C:\LIRI\GIS_DATA\Hyperlinks\LIRI 104.tif
104	LIRI 105	630367	3810891	0.247	PFO1C	Slope	Low	N/A	N/A	Medium	High	No	No	No	No	C:\LIRI\GIS_DATA\Hyperlinks\LIRI 105.tif
105	LIRI 106	631099	3810158	0.169	PFO1A	Slope	Low	N/A	Medium	Low	Medium	No	No	No	No	C:\LIRI\GIS_DATA\Hyperlinks\LIRI 106.tif
106	LIRI 107	631425	3810309	1.349	PFO1C	Slope	High	High	High	Medium	Medium	No	No	No	Yes	C:\LIRI\GIS_DATA\Hyperlinks\LIRI 107.tif
107	LIRI 108	631530	3813079	0.85	PFO1A	Slope	Low	N/A	N/A	Low	High	No	Yes-Herpetological Research	No	No	C:\LIRI\GIS_DATA\Hyperlinks\LIRI 108.tif
108	LIRI 109	631719	3811704	0.32	PFO1A	Slope	Low	N/A	N/A	Low	High	No	Yes-Herpetological Research	No	No	C:\LIRI\GIS_DATA\Hyperlinks\LIRI 109.tif
109	LIRI 110	630321	3813445	0.097	PFO1A	Slope	N/A	High	High	Low	Low	No	No	No	No	C:\LIRI\GIS_DATA\Hyperlinks\LIRI 110.tif
110	LIRI 111	630975	3814057	0.969	PFO1A	Slope	Low	N/A	N/A	Medium	Medium	No	No	No	Yes- Microstegium vimineum	C:\LIRI\GIS_DATA\Hyperlinks\LIRI 111.tif
111	LIRI 112	631007	3813539	0.293	PFO1A	Slope	Low	N/A	N/A	Medium	Medium	No	No	No	No	C:\LIRI\GIS_DATA\Hyperlinks\LIRI 112.tif
112	LIRI 113	630282	3813772	0.47	PFO1A	Depression	N/A	N/A	N/A	Low	Low	No	No	No	No	C:\LIRI\GIS_DATA\Hyperlinks\LIRI 113.tif
113	LIRI 114	628602	3809530	0.049	PFO1A	Slope	Low	Low	Low	Medium	Low	No	No	No	No	C:\LIRI\GIS_DATA\Hyperlinks\LIRI 114.tif
114	LIRI 115	628898	3809484	0.018	PFO1A	Slope	Low	Low	Low	High	Low	No	No	No	No	C:\LIRI\GIS_DATA\Hyperlinks\LIRI 115.tif
115	LIRI 116	621797	3801291	1.85	R3RB1	Riverine	High	High	High	Medium	High	No	No	No	No	C:\LIRI\GIS_DATA\Hyperlinks\LIRI 116.tif
116	LIRI 117	622132	3800955	0.62	R3RB1	Riverine	High	High	High	Medium	High	No	No	No	No	C:\LIRI\GIS_DATA\Hyperlinks\LIRI 117.tif
117	LIRI 118	622204	3798623	0.49	R3RB1	Riverine	High	High	High	Medium	High	No	No	No	No	C:\LIRI\GIS_DATA\Hyperlinks\LIRI 118.tif
118	LIRI 119	620545	3795428	1.48	R3RB1	Riverine	High	High	High	Medium	High	No	No	No	No	C:\LIRI\GIS_DATA\Hyperlinks\LIRI 119.tif
119	LIRI 120	621342	3795016	1.23	PSS1E	Slope	High	High	High	Medium	High	No	No	No	No	C:\LIRI\GIS_DATA\Hyperlinks\LIRI 120.tif
120	LIRI 121	626103	3804665	1.23	R3RB1	Riverine	High	High	High	Medium	High	No	No	No	No	C:\LIRI\GIS_DATA\Hyperlinks\LIRI 121.tif
121	LIRI 122	625936	3804315	1.73	R3RB1	Riverine	High	High	High	Medium	High	No	No	No	No	C:\LIRI\GIS_DATA\Hyperlinks\LIRI 122.tif
122	LIRI 123	625386	3803617	2.22	R3RB1	Riverine	High	High	High	Medium	High	No	No	No	No	C:\LIRI\GIS_DATA\Hyperlinks\LIRI 123.tif
123	LIRI 124	631794	3815695	0.11	PFO1A	Slope	Low	Low	Low	Medium	Medium	No	No	No	No	C:\LIRI\GIS_DATA\Hyperlinks\LIRI 124.tif
124	LIRI 125	621358	3794302	1.7	PFO1C	Slope	Low	Low	Low	High	High	Yes- Close to a Road	Yes-Herpetological Research	Yes-Larger than Average Size	Yes- Microstegium vimenium	C:\LIRI\GIS_DATA\Hyperlinks\LIRI 125.tif
125	LIRI 126	628358	3813972	0.16	PFO1A	Slope	N/A	High	Low	High	Medium	Yes-Historic Site	Yes-Herpetological Research	No	No	C:\LIRI\GIS_DATA\Hyperlinks\LIRI 126.tif
126	LIRI 127	628122	3817494	0.15	PFO1A	Depression	Low	N/A	N/A	Low	Low	No	No	No	Yes-Lonicera japonica	C:\LIRI\GIS_DATA\Hyperlinks\LIRI 127.tif

APPENDIX C

(List of Plant Species and Indicator Status)

Scientific Name	Common Name	Indicator Status
Acer drummondii	Drummond's Maple	FAC
Acer rubrum	Red Maple	FAC
Acer saccharinum	Silver Maple	FACW
Alnus serrulata	Hazel Alder	FACW+
Andropogon virginicus	Broomsedge	FAC-
Argostis stolonifera	Creeping Bentgrass	NO
Arundinaria gigantea	Giant River Cane	FACW
Athyrium filix-femina	Lady Fern	FAC
Azalea spp.	Azalea	Unknown
Betula nigra	River Birch	FACW
Carex crinita	Fringed Sedge	FACW+
Carex intumescens	Greater Bladder Sedge	FACW
Carpinus caroliniana	Ironwood	FAC
Cephalanthus occidentalis	Buttonbush	OBL
Chasmanthium laxum	Slender Woodoats	FACW-
Chasmanthium sessiliflorum	Longleaf Woodoats	FAC+
Eupatorium purpureum	Sweetscented Joe Pye Weed	FAC
Impatiens capensis	Jewel Weed	FACW
Juncus effusus	Common Rush	FACW+
Justicia americana	Water Willow	OBL
Liquidambar styraciflua	Sweetgum	FAC+
Liriodendron tulipifera	Tulip popular	FAC
Lobelia cardinalis	Cardinal Flower	FACW+
Lonicera japonica	Honeysuckle	FAC-
Microstegium vimineum	Browntop	FAC+
Mitchella repens	Partridgeberry	FACU+
Nyssa sylvatica	Blackgum	FAC
Onoclea sensibilis	Sensitive Fern	FACW
Orontium aquaticum	Goldenclub	OBL
Osmunda cinnomomea	Cinnamon Fern	FACW+
Osmunda regalis	Royal Fern	OBL
Oxydendron ardoreum	Sourwood	NI
Panicum spp.	Grass spp.	Unknown
Pinus taeda	Loblolly Pine	FAC
Plantanus occidentalis	Sycamore	FACW-
Pteridium aquilinum	Western Brackenfern	FACU
Quercus alba	White Oak	FACU
Quercus falcata	Southern Red Ok	FACU-
Quercus phellos	Willow Oak	FACW-
Quercus stellata	Post Oak	FACU
Rhynchospora spp.	Beaksedge	OBL
Salix nigra	Black Willow	OBL
Scripus cyperinus	Woolgrass	OBL
Smilax glauca	Catbriar	FAC
Smilax rotundifolia	Green Briar	FAC
Solidago spp.	Goldenrod	Unknown
Sphagnum spp.	Moss	Unknown
Toxidendron radicans	Posion Ivy	FAC
Typha latifolia	Cattail	OBL
Vaccinium corymbosum	Highbush Blueberry	FACW
Vitis spp.	Grape	Unknown
Xanthorhiza simplicissima	Yellowroot	FACW-

APPENDIX D

(Data Forms)

Little River, AL
WETLAND DETERMINATION

Invetigator(s):	Ken Morgan		Date:	4-5	2007
Site ID:	LIRI 01		Land Use:	Forested	
UTM: easting	16S 625871		Approximate Size:	0.22 acres	
northing	3806895				
Corwardin Class:	PFO1A		HGM Class:	Slope	

VEGETATION

	Dominant Plant Species	Stratum	Indicator
1	Pinus taeda	Tree	FAC
2	Sphagnum spp.	Ground	Unknown
3	Osmunda cinnamomea	Ground	FACW
4	Liquidambar styraciflua	Shrub	FAC
5			
6			
7			

Percent of Dominant Species that are OBL, FACW, or FAC? 75%

	Other Plant Species	Stratum	Indicator
1	Carex spp.	Ground	Unknown
2	Chasmanthium laxum	Ground	FAC
3	Smilax rotundifolia	Vine	FAC
4	Acer rubrum	Shrub/Tree	FAC
5	Sarracenia spp.	Ground	
6			

SOILS

Profile Description

Depth (inches)			Matrix Color (Munsell Color)		Mottle Color (Munsell Color)		Mottle Abundance/Contrast
0	to	3	10YR	5/2			
3	to	12	10YR	6/1			
	to						
	to						
	to						
	to						
	to						

Hydric Soil Indicators

	Histosol	X	Gleyed or Low-Chroma Colors
	Histic Epipedon		Concretions/Soft Masses
	Sulfidic Odor		Hydric Criteria Met
	Reducing Conditions		Other

Remarks:

HYDROLOGY

Primary Water Source(s):

	Groundwater Discharge		Overbank Flooding
X	Perched Groundwater		Precipitation
X	Other Adjacent runoff		

Wetland Hydrology Indicators:

X	Saturated (<12")		Inundated
X	Distinct Drainage Patterns		FAC-Neutral Test
	Water Marks/Moss Lichen Lines		Other
	Oxidized Rhizospheres		

WETLAND DETERMINATION

Hydrophytic vegetation present?	X	Yes		No
Wetland hydrology present?	X	Yes		No
Hydric soils present?	X	Yes		No

Remarks:

FUNCTIONS AND VALUE ASSESSMENT

Function/Value:		Rating								
1	Surface Water Storage		H				L	X	N/A	
2	Ground Water Discharge to Streams		H		M		L	X	N/A	
3	Carbon/Nutrient Export		H		M	X	L		N/A	
4	Provide Wildlife Habitat		H	X	M		L		N/A	
5	Support WetlandPlants	X	H		M		L		N/A	Unique plant
6	Cultural Value	X	Yes				No			Near road
7	Research/Scientific	X	Yes				No			Unique plant
8	Economic Value		Yes			X	No			
9	Exotic Present		Yes			X	No			

Remarks:

PIC 1-2

Little River, AL
WETLAND DETERMINATION

Invetigator(s):	Ken Morgan		Date:	4-5	2007
Site ID:	LIRI 02		Land Use:	Forested	
UTM: easting	16S 625711		Approximate Size:	0.06 acres	
northing	3806935				
Corwardin Class:	PFO1A		HGM Class:	Slope	

VEGETATION

	Dominant Plant Species	Stratum	Indicator
1	Acer rubrum	Tree	FAC
2	Smilax spp.	Vine	FAC
3	Sphagnum spp.	Ground	FACW
4	Liquidambar styraciflua	Shrub	FAC
5			
6			
7			

Percent of Dominant Species that are OBL, FACW, or FAC? 100%

	Other Plant Species	Stratum	Indicator
1	Vitis spp.	Vine	FAC
2	Cornus spp.	Shrub	Unknown
3			
4			
5			
6			

SOILS

Profile Description

Depth (inches)			Matrix Color (Munsell Color)		Mottle Color (Munsell Color)		Mottle Abundance/Contrast
0	to	4	10YR	5/2			
4	to	9	10YR	5/2	10YR	5/6	10%
	to						
	to						
	to						
	to						
	to						

Hydric Soil Indicators

	Histosol	X	Gleyed or Low-Chroma Colors
	Histic Epipedon	X	Concretions/Soft Masses
	Sulfidic Odor		Hydric Criteria Met
	Reducing Conditions		Other

Remarks:

HYDROLOGY

Primary Water Source(s):

	Groundwater Discharge		Overbank Flooding
X	Perched Groundwater		Precipitation
X	Other Runoff		

Wetland Hydrology Indicators:

X	Saturated (<12")		Inundated
X	Distinct Drainage Patterns		FAC-Neutral Test
X	Water Marks/Moss Lichen Lines		Other
X	Oxidized Rhizospheres		

WETLAND DETERMINATION

Hydrophytic vegetation present?	X	Yes		No
Wetland hydrology present?	X	Yes		No
Hydric soils present?	X	Yes		No

Remarks:

FUNCTIONS AND VALUE ASSESSMENT

Function/Value:		Rating								
1	Surface Water Storage		H			X	L		N/A	Microdepressions
2	Ground Water Discharge to Streams		H		M		L	X	N/A	
3	Carbon/Nutrient Export		H		M	X	L		N/A	
4	Provide Wildlife Habitat		H		M	X	L		N/A	
5	Support WetlandPlants		H		M	X	L		N/A	
6	Cultural Value		Yes				No	Near road		
7	Research/Scientific		Yes			X	No			
8	Economic Value		Yes			X	No			
9	Exotic Present		Yes			X	No			

Remarks:

PIC 18-19

Little River, AL
WETLAND DETERMINATION

Invetigator(s):	Ken Morgan	Date:	4-5	2007
Site ID	LIRI 03	Land Use:	Forested	
UTM: easting	16S 625526	Approximate Size:	0.44 acres	
northing	3806973			
Corwardin Class:	PFO1A	HGM Class:	Slope	

VEGETATION

	Dominant Plant Species	Stratum	Indicator
1	Acer rubrum	Tree	FAC
2	Liquidambar styraciflua	Tree/Shrub	FAC
3	Osmunda cinnamomea	Ground	FACW
4	Viburnum nudum	Shrub	FACW
5			
6			
7			

Percent of Dominant Species that are OBL, FACW, or FAC? 100%

	Other Plant Species	Stratum	Indicator
1	Vitis spp.	Vine	FAC
2	Vaccinium spp.	Shrub	Unknown
3			
4			
5			
6			

SOILS

Profile Description

Depth (inches)			Matrix Color (Munsell Color)		Mottle Color (Munsell Color)		Mottle Abundance/Contrast
0	to	3	10YR	5/3			
3	to	9	10YR	5/2	10YR	5/6	1%
9	to	12	10YR	5/2			
	to						
	to						
	to						
	to						

Hydric Soil Indicators

	Histosol	X	Gleyed or Low-Chroma Colors
	Histic Epipedon		Concretions/Soft Masses
	Sulfidic Odor		Hydric Criteria Met
	Reducing Conditions		Other

Remarks:

HYDROLOGY

Primary Water Source(s):

	Groundwater Discharge		Overbank Flooding
X	Perched Groundwater		Precipitation
X	Other Runoff		

Wetland Hydrology Indicators:

X	Saturated (<12")		Inundated
X	Distinct Drainage Patterns		FAC-Neutral Test
X	Water Marks/Moss Lichen Lines		Other
	Oxidized Rhizospheres		

WETLAND DETERMINATION

Hydrophytic vegetation present?	X	Yes		No
Wetland hydrology present?	X	Yes		No
Hydric soils present?	X	Yes		No

Remarks:

FUNCTIONS AND VALUE ASSESSMENT

Function/Value:		Rating								
1	Surface Water Storage		H				X	L		N/A	Microdepression
2	Ground Water Discharge to Streams		H		M			L	X	N/A	
3	Carbon/Nutrient Export		H		M		X	L		N/A	
4	Provide Wildlife Habitat		H	X	M			L		N/A	
5	Support WetlandPlants		H		M		X	L		N/A	
6	Cultural Value		Yes					No	Near road		
7	Research/Scientific		Yes				X	No			
8	Economic Value		Yes				X	No			
9	Exotic Present		Yes				X	No			

Remarks:

PIC 20-21

Little River, AL
WETLAND DETERMINATION

Invetigator(s):	Ken Morgan	Date:	4-5	2007
Site ID:	LIRI 04	Land Use:	Canopy Gap/Forested	
UTM: easting	16S 625868	Approximate Size:	0.02 acres	
northing	3806820			
Corwardin Class:	PSS1A	HGM Class:	Slope	

VEGETATION

	Dominant Plant Species	Stratum	Indicator
1	Chasmanthium laxum	Ground	FAC-
2	Osmunda cinnamomea	Ground	FACW
3	Acer rubrum	Shrub	FAC
4			
5			
6			
7			

Percent of Dominant Species that are OBL, FACW, or FAC? 66%

	Other Plant Species	Stratum	Indicator
1	Smilax spp.	Vine	FAC
2	Vaccinium spp.	Shrub	Unknown
3			
4			
5			
6			

SOILS

Profile Description

Depth (inches)			Matrix Color (Munsell Color)		Mottle Color (Munsell Color)		Mottle Abundance/Contrast
0	to	5	10YR	5/2			
5	to	12	10YR	5/2	10YR	5/8	1%
	to						
	to						
	to						
	to						
	to						

Hydric Soil Indicators

	Histosol	X	Gleyed or Low-Chroma Colors
	Histic Epipedon		Concretions/Soft Masses
	Sulfidic Odor		Hydric Criteria Met
	Reducing Conditions		Other

Remarks:

HYDROLOGY

Primary Water Source(s):

	Groundwater Discharge		Overbank Flooding
X	Perched Groundwater		Precipitation
X	Other Runoff		

Wetland Hydrology Indicators:

X	Saturated (<12")		Inundated
X	Distinct Drainage Patterns		FAC-Neutral Test
X	Water Marks/Moss Lichen Lines		Other
	Oxidized Rhizospheres		

WETLAND DETERMINATION

Hydrophytic vegetation present?	X	Yes		No
Wetland hydrology present?	X	Yes		No
Hydric soils present?	X	Yes		No

Remarks:

FUNCTIONS AND VALUE ASSESSMENT

Function/Value:		Rating							
1	Surface Water Storage		H				L	X	N/A
2	Ground Water Discharge to Streams		H		M		L	X	N/A
3	Carbon/Nutrient Export		H		M	X	L		N/A
4	Provide Wildlife Habitat		H	X	M		L		N/A
5	Support WetlandPlants		H		M	X	L		N/A
6	Cultural Value		Yes			X	No		
7	Research/Scientific		Yes			X	No		
8	Economic Value		Yes			X	No		
9	Exotic Present		Yes			X	No		

Remarks:

PIC 22-23

Little River, AL
WETLAND DETERMINATION

Invetigator(s):	Ken Morgan	Date:	4-5	2007
Site ID:	LIRI 05	Land Use:	Forested	
UTM: easting	16S 625487	Approximate Size:	0.29 acres	
northing	3806309			
Corwardin Class:	PFO1C	HGM Class:	Slope	

VEGETATION

	Dominant Plant Species	Stratum	Indicator
1	Liquidambar styraciflua	Tree	FAC
2	Sphagnum spp.	Ground	Unknown
3	Acer rubrum	Tree/Shrub	FAC
4	Osmunda cinnamomea	Ground	FACW
5			
6			
7			

Percent of Dominant Species that are OBL, FACW, or FAC? 75%

	Other Plant Species	Stratum	Indicator
1	Quercus phellos	Ground	FACW-
2	Saccacenia spp.	Ground	Unknown
3	Smilax spp.	Vine	FAC
4			
5			
6			

SOILS

Profile Description

Depth (inches)			Matrix Color (Munsell Color)		Mottle Color (Munsell Color)		Mottle Abundance/Contrast
0	to	2	10YR	5/2			
2	to	12	10YR	6/1	10YR	6/4	5%
	to						
	to						
	to						
	to						
	to						

Hydric Soil Indicators

	Histosol	X	Gleyed or Low-Chroma Colors
	Histic Epipedon		Concretions/Soft Masses
	Sulfidic Odor		Hydric Criteria Met
	Reducing Conditions		Other

Remarks:

HYDROLOGY

Primary Water Source(s):

	Groundwater Discharge		Overbank Flooding
X	Perched Groundwater		Precipitation
X	Other Runoff		

Wetland Hydrology Indicators:

X	Saturated (<12")		Inundated
X	Distinct Drainage Patterns		FAC-Neutral Test
X	Water Marks/Moss Lichen Lines		Other
X	Oxidized Rhizospheres		

WETLAND DETERMINATION

Hydrophytic vegetation present?	X	Yes		No
Wetland hydrology present?	X	Yes		No
Hydric soils present?	X	Yes		No

Remarks:

FUNCTIONS AND VALUE ASSESSMENT

Function/Value:		Rating								
1	Surface Water Storage		H			X	L		N/A	Microdepressions
2	Ground Water Discharge to Streams		H		M		L	X	N/A	
3	Carbon/Nutrient Export		H		M	X	L		N/A	
4	Provide Wildlife Habitat		H	X	M		L		N/A	
5	Support WetlandPlants	X	H		M		L		N/A	Unique plant
6	Cultural Value	X	Yes				No	Adjacent to ATV Trail		
7	Research/Scientific	X	Yes				No	Unique plant, herpetological		
8	Economic Value		Yes			X	No	research		
9	Exotic Present		Yes			X	No			

Remarks:

PIC 24-25

Little River, AL
WETLAND DETERMINATION

Invetigator(s):	Ken Morgan	Date:	4-6	2007
Site ID:	LIRI 06	Land Use:	Forested	
UTM: easting		Approximate Size:	1.86 acres	
northing				
Corwardin Class:	PFO1C	HGM Class:	Slope	

VEGETATION

	Dominant Plant Species	Stratum	Indicator
1	Liquidambar styraciflua	Tree	FAC
2	Alnus serrulata	Shrub	OBL
3	Pinus taeda	Tree	FAC
4	Sphagnum spp.	Ground	Unknown
5	Acer rubrum	Tree	FAC
6			
7			

Percent of Dominant Species that are OBL, FACW, or FAC? 75%

	Other Plant Species	Stratum	Indicator
1	Carex spp.	Ground	Unknown
2	Vaccinium spp.	Shrub	Unknown
3	Vitis spp.	Vine	FAC
4	Ilex opaca	Ground	FAC-
5			
6			

SOILS

Profile Description

Depth (inches)			Matrix Color (Munsell Color)		Mottle Color (Munsell Color)		Mottle Abundance/Contrast
0	to	4	10YR	4/2			
4	to	10	10YR	5/2			
10	to	12	10YR	3/1			
	to						
	to						
	to						
	to						

Hydric Soil Indicators

	Histosol	X	Gleyed or Low-Chroma Colors
	Histic Epipedon		Concretions/Soft Masses
	Sulfidic Odor		Hydric Criteria Met
	Reducing Conditions		Other

Remarks:

HYDROLOGY

Primary Water Source(s):

	Groundwater Discharge		Overbank Flooding
X	Perched Groundwater		Precipitation
X	Other Runoff		

Wetland Hydrology Indicators:

X	Saturated (<12")		Inundated
X	Distinct Drainage Patterns		FAC-Neutral Test
X	Water Marks/Moss Lichen Lines		Other
X	Oxidized Rhizospheres		

WETLAND DETERMINATION

Hydrophytic vegetation present?	X	Yes		No
Wetland hydrology present?	X	Yes		No
Hydric soils present?	X	Yes		No

Remarks:

FUNCTIONS AND VALUE ASSESSMENT

Function/Value:		Rating							
1	Surface Water Storage		H		M	X	L		N/A
2	Ground Water Discharge to Streams	X	H		M		L		N/A
3	Carbon/Nutrient Export	X	H		M		L		N/A
4	Provide Wildlife Habitat	X	H		M		L		N/A
5	Support WetlandPlants		H		M	X	L		N/A
6	Cultural Values	X	Yes				No	Portion of site near road	
7	Research/Scientific	X	Yes				No	Larger than average size	
8	Economic Value		Yes			X	No		
9	Exotic Present		Yes			X	No		

Remarks:

pic 24-25

Little River, AL
WETLAND DETERMINATION

Invetigator(s):	Ken Morgan/Dan Twyman	Date:	5-22	2007
Site ID:	LIRI 07	Land Use:	Forested	
UTM: easting	16S 626050	Approximate Size:	1.69 acres	
northing	3805699			
Corwardin Class:	PFO1A	HGM Class:	Slope	

VEGETATION

	Dominant Plant Species	Stratum	Indicator
1	Pinus taeda	Tree	FAC
2	Osmunda cinnamomea	Ground	FACW
3	Acer rubrum	Shrub	FAC
4	Smilax glauca	Vine	FAC
5	Athyrium filix-femina	Ground	Unknown
6			
7			

Percent of Dominant Species that are OBL, FACW, or FAC? 80%

	Other Plant Species	Stratum	Indicator
1	Sarraceia spp.	Ground	Unknown
2	Arundinaria gigantea	Ground	FACW
3			
4			
5			
6			

SOILS

Profile Description

Depth (inches)			Matrix Color (Munsell Color)		Mottle Color (Munsell Color)		Mottle Abundance/Contrast
0	to	3	10YR	5/1			
3	to	8	10YR	6/1	10YR	5/6	5%
8	to	12	10YR	7/1	10YR	5/6	5%
	to						
	to						
	to						
	to						

Hydric Soil Indicators

	Histosol	X	Gleyed or Low-Chroma Colors
	Histic Epipedon	X	Concretions/Soft Masses
	Sulfidic Odor		Hydric Criteria Met
	Reducing Conditions		Other

Remarks:

HYDROLOGY

Primary Water Source(s):

	Groundwater Discharge		Overbank Flooding
X	Perched Groundwater		Precipitation
X	Other Runoff		

Wetland Hydrology Indicators:

X	Saturated (<12")		Inundated
X	Distinct Drainage Patterns		FAC-Neutral Test
	Water Marks/Moss Lichen Lines		Other
X	Oxidized Rhizospheres		

WETLAND DETERMINATION

Hydrophytic vegetation present?	X	Yes		No
Wetland hydrology present?	X	Yes		No
Hydric soils present?	X	Yes		No

Remarks:

FUNCTIONS AND VALUE ASSESSMENT

Function/Value:		Rating								
1	Surface Water Storage		H				L	X	N/A	
2	Ground Water Discharge to Streams		H		M		L	X	N/A	
3	Carbon/Nutrient Export		H		M		L	X	N/A	
4	Provide Wildlife Habitat		H	X	M		L		N/A	
5	Support WetlandPlants	X	H		M		L		N/A	Unique plant
6	Cultural Value		Yes			X	No			
7	Research/Scientific	X	Yes				No	Unique plant		
8	Economic Value		Yes			X	No			
9	Exotic Present		Yes			X	No			

Remarks:

pic 12-13

Little River, AL
WETLAND DETERMINATION

Invetigator(s):	Ken Morgan/Dan Twyman	Date:	5-22	2007
Site ID:	LIRI 08	Land Use:	Forested	
UTM: easting	16S 626208	Approximate Size:	0.74 acres	
northing	3805755			
Corwardin Class:	PFO1A	HGM Class:	Slope	

VEGETATION

	Dominant Plant Species	Stratum	Indicator
1	Acer rubrum	Tree	FAC
2	Nyssa sylvatica	Tree	FAC
3	Osmunda cinnamomea	Ground	FACW
4	Chasmanthium laxum	Ground	FAC-
5			
6			
7			

Percent of Dominant Species that are OBL, FACW, or FAC? 75%

	Other Plant Species	Stratum	Indicator
1	Sarracenia spp.	Ground	OBL
2	Vitis spp.	Vine	FAC
3	Smilax spp.	Vine	FAC
4			
5			
6			

SOILS

Profile Description

Depth (inches)			Matrix Color (Munsell Color)		Mottle Color (Munsell Color)		Mottle Abundance/Contrast
0	to	4	10YR	5/2			
4	to	8	10YR	5/1	10YR	5/4	10%
8	to	12	10YR	5/1	10YR	5/6	5%
	to						
	to						
	to						
	to						

Hydric Soil Indicators

	Histosol	X	Gleyed or Low-Chroma Colors
	Histic Epipedon		Concretions/Soft Masses
	Sulfidic Odor		Hydric Criteria Met
	Reducing Conditions		Other

Remarks:

HYDROLOGY

Primary Water Source(s):

	Groundwater Discharge		Overbank Flooding
X	Perched Groundwater		Precipitation
X	Other Runoff		

Wetland Hydrology Indicators:

X	Saturated (<12")		Inundated
X	Distinct Drainage Patterns		FAC-Neutral Test
	Water Marks/Moss Lichen Lines		Other
X	Oxidized Rhizospheres		

WETLAND DETERMINATION

Hydrophytic vegetation present?	X	Yes		No
Wetland hydrology present?	X	Yes		No
Hydric soils present?	X	Yes		No

Remarks:

FUNCTIONS AND VALUE ASSESSMENT

Function/Value:		Rating								
1	Surface Water Storage		H				L	X	N/A	
2	Ground Water Discharge to Streams		H		M		L	X	N/A	
3	Carbon/Nutrient Export		H		M	X	L		N/A	Small drain is present
4	Provide Wildlife Habitat		H	X	M		L		N/A	
5	Support WetlandPlants	X	H		M		L		N/A	Unique plant
6	Cultural Value		Yes			X	No			
7	Research/Scientific	X	Yes				No	Unique plant present,		
8	Economic Value		Yes			X	No	larger than average		
9	Exotic Present		Yes			X	No			

Remarks:

pic 14-15

Little River, AL
WETLAND DETERMINATION

Invetigator(s):	Ken Morgan/Dan Twyman	Date:	5-22	2007
Site ID:	LIRI 09	Land Use:	Forested	
UTM: easting	16S 626211	Approximate Size:	0.85 acres	
northing	3805966			
Corwardin Class:	PFO1A	HGM Class:	Slope	

VEGETATION

	Dominant Plant Species	Stratum	Indicator
1	Osmunda cinnamomea	Ground	FACW
2	Pinus taeda	Tree	FAC
3	Liquidambar styraciflua	Tree/Shrub	FAC
4	Vitis spp.	Vine	FAC
5	Acer rubrum	Tree	FAC
6			
7			

Percent of Dominant Species that are OBL, FACW, or FAC? 100%

	Other Plant Species	Stratum	Indicator
1	Sarracenia spp.	Ground	OBL
2	Athyrium filix-femina	Ground	FAC
3			
4			
5			
6			

SOILS

Profile Description

Depth (inches)			Matrix Color (Munsell Color)		Mottle Color (Munsell Color)		Mottle Abundance/Contrast
0	to	4	10YR	5/1	10YR	5/6	1%
4	to	12	10YR	4/1	10YR	5/6	1%
	to						
	to						
	to						
	to						
	to						

Hydric Soil Indicators

	Histosol	X	Gleyed or Low-Chroma Colors
	Histic Epipedon	X	Concretions/Soft Masses
	Sulfidic Odor		Hydric Criteria Met
	Reducing Conditions		Other

Remarks:

HYDROLOGY

Primary Water Source(s):

	Groundwater Discharge		Overbank Flooding
	Perched Groundwater	X	Precipitation
	Other		

Wetland Hydrology Indicators:

X	Saturated (<12")		Inundated
X	Distinct Drainage Patterns		FAC-Neutral Test
	Water Marks/Moss Lichen Lines		Other
	Oxidized Rhizospheres		

WETLAND DETERMINATION

Hydrophytic vegetation present?	X	Yes		No
Wetland hydrology present?	X	Yes		No
Hydric soils present?	X	Yes		No

Remarks:

FUNCTIONS AND VALUE ASSESSMENT

	Function/Value:	Rating							
1	Surface Water Storage		H				X	L		N/A
2	Ground Water Discharge to Streams		H		M		X	L		N/A
3	Carbon/Nutrient Export		H		M		X	L		N/A
4	Provide Wildlife Habitat		H	X	M			L		N/A
5	Support WetlandPlants		H	X	M			L		N/A
6	Cultural Value	x	Yes					No		Larger than average size
7	Research/Scientific		Yes				X	No		
8	Economic Value		Yes				X	No		
9	Exotic Present		Yes				X	No		

Remarks:

PIC 11-12

Little River, AL
WETLAND DETERMINATION

Invetigator(s):	Ken Morgan/Dan Twyman	Date:	5-22	2007
Site ID:	LIRI 10	Land Use:	Forested	
UTM: easting	16S 626432	Approximate Size:	1.38 acres	
northing	3806364			
Corwardin Class:	PFO1A	HGM Class:	Slope	

VEGETATION

	Dominant Plant Species	Stratum	Indicator
1	Osmunda cinnamomea	Ground	FACW
2	Athyrium filix-femina	Ground	FAC
3	Acer rubrum	Tree	FAC
4	Alnus serrulata	Shrub	FACW
5			
6			
7			

Percent of Dominant Species that are OBL, FACW, or FAC? 100%

	Other Plant Species	Stratum	Indicator
1	Sorbus spp.	Shrub	Unknown
2			
3			
4			
5			
6			

SOILS

Profile Description

Depth (inches)			Matrix Color (Munsell Color)		Mottle Color (Munsell Color)		Mottle Abundance/Contrast
0	to	4	10YR	4/1			
4	to	7	10YR	4/2			
7	to	12	10YR	5/2	10YR	5/6	1%
	to						
	to						
	to						
	to						

Hydric Soil Indicators

	Histosol	X	Gleyed or Low-Chroma Colors
	Histic Epipedon		Concretions/Soft Masses
	Sulfidic Odor		Hydric Criteria Met
	Reducing Conditions		Other

Remarks:

HYDROLOGY

Primary Water Source(s):

	Groundwater Discharge		Overbank Flooding
X	Perched Groundwater		Precipitation
X	Other Runoff		

Wetland Hydrology Indicators:

X	Saturated (<12")		Inundated
X	Distinct Drainage Patterns		FAC-Neutral Test
X	Water Marks/Moss Lichen Lines		Other
X	Oxidized Rhizospheres		

WETLAND DETERMINATION

Hydrophytic vegetation present?	X	Yes		No
Wetland hydrology present?	X	Yes		No
Hydric soils present?	X	Yes		No

Remarks:

FUNCTIONS AND VALUE ASSESSMENT

Function/Value:		Rating							
1	Surface Water Storage		H				L	X	N/A
2	Ground Water Discharge to Streams		H	X	M		L		N/A
3	Carbon/Nutrient Export		H	X	M		L		N/A
4	Provide Wildlife Habitat		H	X	M		L		N/A
5	Support WetlandPlants		H	X	M		L		N/A
6	Cultural Value	X	Yes				No	Adjacent to road	
7	Research/Scientific	X	Yes				No	Larger than average size	
8	Economic Value		Yes			X	No		
9	Exotic Present		Yes			X	No		

Remarks:

pic 18-19

Little River, AL
WETLAND DETERMINATION

Invetigator(s):	Ken Morgan/Dan Twyman	Date:	5-22	2007
Site ID:	LIRI 11	Land Use:	Power Line	
UTM: easting	16S 625904	Approximate Size:	0.06 acres	
northing	3805658			
Corwardin Class:	PSS1A	HGM Class:	Slope	

VEGETATION

	Dominant Plant Species	Stratum	Indicator
1	Vaccinium spp.	Shrub	Unknown
2	Smilax rotundifolia	Vine	FAC
3	Acer rubrum	Shrub	FAC
4	Pteridium aquilinum	Ground	FACU
5			
6			
7			

Percent of Dominant Species that are OBL, FACW, or FAC? 50%

	Other Plant Species	Stratum	Indicator
1	Sarracenia spp.	Ground	OBL
2	Andropogon virginicus	Ground	FAC-
3	Juncus spp.	Ground	Unknown
4			
5			
6			

SOILS

Profile Description

Depth (inches)			Matrix Color (Munsell Color)		Mottle Color (Munsell Color)		Mottle Abundance/Contrast
0	to	4	10YR	4/1	10YR	5/8	1%
4	to	12	10YR	5/4	10YR	5/8	5%
	to						
	to						
	to						
	to						
	to						

Hydric Soil Indicators

	Histosol	X	Gleyed or Low-Chroma Colors
	Histic Epipedon		Concretions/Soft Masses
	Sulfidic Odor		Hydric Criteria Met
	Reducing Conditions		Other

Remarks:

HYDROLOGY

Primary Water Source(s):

	Groundwater Discharge		Overbank Flooding
X	Perched Groundwater	X	Precipitation
	Other		

Wetland Hydrology Indicators:

	Saturated (<12")		Inundated
	Distinct Drainage Patterns		FAC-Neutral Test
	Water Marks/Moss Lichen Lines		Other
X	Oxidized Rhizospheres		

WETLAND DETERMINATION

Hydrophytic vegetation present?	X	Yes		No
Wetland hydrology present?	X	Yes		No
Hydric soils present?	X	Yes		No

Remarks:

FUNCTIONS AND VALUE ASSESSMENT

Function/Value:		Rating								
1	Surface Water Storage		H			X	L		N/A	Vehicle ruts
2	Ground Water Discharge to Streams		H		M		L	X	N/A	holding water
3	Carbon/Nutrient Export		H		M	X	L		N/A	
4	Provide Wildlife Habitat		H		M	X	L		N/A	
5	Support WetlandPlants	X	H		M		L		N/A	Unique wetland plant
6	Cultural Value	X	Yes				No	Powerline right of way		
7	Research/Scientific	X	Yes				No	Unique plant		
8	Economic Value		Yes			X	No			
9	Exotic Present		Yes			X	No			

Remarks:

pic 24-26

Little River, AL
WETLAND DETERMINATION

Invetigator(s):	Ken Morgan/Dan Twyman	Date:	5-23	2007
Site ID:	LIRI 12	Land Use:	Forested	
UTM: easting	16S 625863	Approximate Size:	0.04 acres	
northing	3805615			
Corwardin Class:	PFO1A	HGM Class:	Slope	

VEGETATION

	Dominant Plant Species	Stratum	Indicator
1	Acer rubrum	Tree/Shrub	FAC
2	Pinus taeda	Tree/Shrub	FAC
3	Nyssa sylvatica	Shrub	FAC
4	Liquidambar styraciflua	Shrub	FAC
5	Vaccinium spp.	Shrub	Unknown
6	Vitis spp.	Vine	FAC
7			

Percent of Dominant Species that are OBL, FACW, or FAC? 83%

	Other Plant Species	Stratum	Indicator
1	Sarracenia spp.	Ground	OBL
2	Liriodendron tulipifera	Shrub	FAC
3	Smilax spp.	Vine	FAC
4			
5			
6			

SOILS

Profile Description

Depth (inches)			Matrix Color (Munsell Color)		Mottle Color (Munsell Color)		Mottle Abundance/Contrast
0	to	6	10YR	4/1			
6	to	12	10YR	4/1	10YR	5/6	25%
	to						
	to						
	to						
	to						
	to						

Hydric Soil Indicators

	Histosol	X	Gleyed or Low-Chroma Colors
	Histic Epipedon		Concretions/Soft Masses
	Sulfidic Odor		Hydric Criteria Met
	Reducing Conditions		Other

Remarks:

HYDROLOGY

Primary Water Source(s):

	Groundwater Discharge		Overbank Flooding
X	Perched Groundwater	X	Precipitation minor
	Other		

Wetland Hydrology Indicators:

	Saturated (<12")		Inundated
X	Distinct Drainage Patterns		FAC-Neutral Test
	Water Marks/Moss Lichen Lines		Other
X	Oxidized Rhizospheres		

WETLAND DETERMINATION

Hydrophytic vegetation present?	X	Yes		No
Wetland hydrology present?	X	Yes		No
Hydric soils present?	X	Yes		No

Remarks:

FUNCTIONS AND VALUE ASSESSMENT

Function/Value:		Rating								
1	Surface Water Storage		H				L	X	N/A	
2	Ground Water Discharge to Streams		H		M	X	L		N/A	
3	Carbon/Nutrient Export		H		M	X	L		N/A	
4	Provide Wildlife Habitat		H	X	M		L		N/A	
5	Support WetlandPlants	X	H		M		L		N/A	Unique plants
6	Cultural Value	X	Yes				No	Near trail		
7	Research/Scientific	X	Yes				No	Unique plant present		
8	Economic Value		Yes			X	No			
9	Exotic Present		Yes			X	No			

Remarks:

PIC 27-29

Little River, AL
WETLAND DETERMINATION

Invetigator(s):	Ken Morgan/Dan Twyman	Date:	5-23	2007
Site ID:	LIRI 13	Land Use:	Forested	
UTM: easting	16S 625759	Approximate Size:	0.04 acres	
northing	3805624			
Corwardin Class:	PFO1A	HGM Class:	Slope	

VEGETATION

	Dominant Plant Species	Stratum	Indicator
1	Nyssa sylvatica	Tree	FAC
2	Pinus taeda	Tree	FAC
3	Vaccinium spp.	Shrub	Unknown
4	Acer rubrum	Shrub	FAC
5			
6			
7			

Percent of Dominant Species that are OBL, FACW, or FAC? 75%

	Other Plant Species	Stratum	Indicator
1	Sorbus spp.	Shrub	Unknown
2	Sarracenia spp.	Ground	OBL
3			
4			
5			
6			

SOILS

Profile Description

Depth (inches)			Matrix Color (Munsell Color)		Mottle Color (Munsell Color)		Mottle Abundance/Contrast
1	to	4	10YR	5/2			
4	to	12	10YR	5/1	10YR	5/6	
	to						
	to						
	to						
	to						
	to						

Hydric Soil Indicators

	Histosol	X	Gleyed or Low-Chroma Colors
	Histic Epipedon		Concretions/Soft Masses
	Sulfidic Odor		Hydric Criteria Met
	Reducing Conditions		Other

Remarks:

HYDROLOGY

Primary Water Source(s):

	Groundwater Discharge		Overbank Flooding
X	Perched Groundwater		Precipitation
	Other		

Wetland Hydrology Indicators:

X	Saturated (<12")		Inundated
	Distinct Drainage Patterns		FAC-Neutral Test
	Water Marks/Moss Lichen Lines		Other
X	Oxidized Rhizospheres		

WETLAND DETERMINATION

Hydrophytic vegetation present?	X	Yes		No
Wetland hydrology present?	X	Yes		No
Hydric soils present?	X	Yes		No

Remarks:

FUNCTIONS AND VALUE ASSESSMENT

Function/Value:		Rating								
1	Surface Water Storage		H				L	X	N/A	
2	Ground Water Discharge to Streams		H		M	X	L		N/A	
3	Carbon/Nutrient Export		H	X	M		L		N/A	
4	Provide Wildlife Habitat		H	X	M		L		N/A	
5	Support WetlandPlants	X	H		M		L		N/A	Unique plant (Sarracenia)
6	Cultural Value		Yes			X	No			
7	Research/Scientific	X	Yes				No	Unique plant present		
8	Economic Value		Yes			X	No			
9	Exotic Present		Yes			X	No			

Remarks:

pic 30-32

Little River, AL
WETLAND DETERMINATION

Invetigator(s):	Ken Morgan/Dan Twyman	Date:	5-23	2007
Site ID:	LIRI 14	Land Use:	Beaver Pond	
UTM: easting	16S 625491	Approximate Size:	12.2 acres	
northing	3805576			
Corwardin Class:	PSS1E	HGM Class:	Depression (altered slope)	

VEGETATION

	Dominant Plant Species	Stratum	Indicator
1	Alnus serrulata	Shrub	FACW
2	Scirpus cyperinus	Ground	FACW
3	Juncus effusus	Ground	FACW
4	Salix nigra	Shrub	OBL
5	Cephalanthus occidnetalis	Shrub	OBL
6			
7			

Percent of Dominant Species that are OBL, FACW, or FAC? 100%

	Other Plant Species	Stratum	Indicator
1	Typha latifolia	Ground	OBL
2	Carex intumescens	Ground	FACW
3	Ludwigia alternifolia	Ground	OBL
4			
5			
6			

SOILS

Profile Description

Depth (inches)			Matrix Color (Munsell Color)		Mottle Color (Munsell Color)		Mottle Abundance/Contrast
0	to	4	10YR	5/2	10YR	5/6	5%
4	to	12	10YR	5/2	10YR	5/6	15%
	to						
	to						
	to						
	to						
	to						

Hydric Soil Indicators

	Histosol	X	Gleyed or Low-Chroma Colors
	Histic Epipedon		Concretions/Soft Masses
	Sulfidic Odor		Hydric Criteria Met
	Reducing Conditions		Other

Remarks:

HYDROLOGY

Primary Water Source(s):

	Groundwater Discharge		Overbank Flooding
X	Perched Groundwater	X	Precipitation minor
	Other		

Wetland Hydrology Indicators:

X	Saturated (<12")		Inundated
	Distinct Drainage Patterns		FAC-Neutral Test
	Water Marks/Moss Lichen Lines		Other
X	Oxidized Rhizospheres		

WETLAND DETERMINATION

Hydrophytic vegetation present?	X	Yes		No
Wetland hydrology present?	X	Yes		No
Hydric soils present?	X	Yes		No

Remarks:

FUNCTIONS AND VALUE ASSESSMENT

Function/Value:		Rating							
1	Surface Water Storage	X	H				L		N/A
2	Ground Water Discharge to Streams		H		M	X	L		N/A
3	Carbon/Nutrient Export		H	X	M		L		N/A
4	Provide Wildlife Habitat	X	H		M		L		N/A
5	Support WetlandPlants	X	H		M		L		N/A
6	Cultural Value	X	Yes				No	near trail	
7	Research/Scientific	X	Yes				No	above average size	
8	Economic Value		Yes			X	No		
9	Exotic Present	X	Yes				No	Japanese honeysuckle	

Remarks:

pic34-35

Little River, AL
WETLAND DETERMINATION

Invetigator(s):	Ken Morgan/Dan Twyman	Date:	5-23	2007
Site ID:	LIRI 15	Land Use:	Forested	
UTM: easting	16S 625678	Approximate Size:	0.11 acres	
northing	3805089			
Corwardin Class:	PFO1A	HGM Class:	Slope	

VEGETATION

	Dominant Plant Species	Stratum	Indicator
1	Osmunda cinnamomea	Ground	FACW
2	Nyssa sylvatica	Tree	FAC
3	Liquidambar styraciflua	Shrub	FAC
4	Vaccinium spp.	Shrub	Unknown
5			
6			
7			

Percent of Dominant Species that are OBL, FACW, or FAC? 75%

	Other Plant Species	Stratum	Indicator
1	Carex spp.	Ground	Unknown
2	Vitis spp.	Vine	FAC
3	Smilax spp.	Vine	FAC
4	Liriodendron tulipfera	Tree	FAC
5			
6			

SOILS

Profile Description

Depth (inches)			Matrix Color (Munsell Color)		Mottle Color (Munsell Color)		Mottle Abundance/Contrast
0	to	3	10YR	4/1			
3	to	8	10YR	5/1			
8	to	12	10YR	5/1	10YR	5/8	1%
	to						
	to						
	to						
	to						

Hydric Soil Indicators

	Histosol	X	Gleyed or Low-Chroma Colors
	Histic Epipedon		Concretions/Soft Masses
	Sulfidic Odor		Hydric Criteria Met
	Reducing Conditions		Other

Remarks:

HYDROLOGY

Primary Water Source(s):

	Groundwater Discharge		Overbank Flooding
X	Perched Groundwater	X	Precipitation minor
	Other		

Wetland Hydrology Indicators:

X	Saturated (<12")		Inundated
X	Distinct Drainage Patterns		FAC-Neutral Test
	Water Marks/Moss Lichen Lines		Other
X	Oxidized Rhizospheres		

WETLAND DETERMINATION

Hydrophytic vegetation present?	X	Yes		No
Wetland hydrology present?	X	Yes		No
Hydric soils present?	X	Yes		No

Remarks:

FUNCTIONS AND VALUE ASSESSMENT

Function/Value:		Rating							
1	Surface Water Storage		H				L	X	N/A
2	Ground Water Discharge to Streams		H		M	X	L		N/A
3	Carbon/Nutrient Export		H		M	X	L		N/A
4	Provide Wildlife Habitat		H	X	M		L		N/A
5	Support WetlandPlants		H		M	X	L		N/A
6	Cultural Value		Yes			X	No		
7	Research/Scientific		Yes			X	No		
8	Economic Value		Yes			X	No		
9	Exotic Present		Yes			X	No		

Remarks:

PIC 36-38

Little River, AL
WETLAND DETERMINATION

Invetigator(s):	Ken Morgan/Dan Twyman		Date:	5-24	2007
Site ID:	LIRI 16		Land Use:	Stream Channel	
UTM: easting	16S 625750		Approximate Size:	0.01 acres	
northing	3807570				
Corwardin Class:	R3RB1		HGM Class:	Riverine	

VEGETATION

	Dominant Plant Species	Stratum	Indicator
1	Alnus serrulata	Shurb	FACW
2	Cephalanthus occidentalis	Shrub	OBL
3	Orontium aquaticum	Ground	OBL
4			
5			
6			
7			

Percent of Dominant Species that are OBL, FACW, or FAC? 100%

	Other Plant Species	Stratum	Indicator
1	Osmunda regalis	Ground	OBL
2			
3			
4			
5			
6			

SOILS

Profile Description

Depth (inches)			Matrix Color (Munsell Color)		Mottle Color (Munsell Color)		Mottle Abundance/Contrast
0	to	12	10YR	4/2			
	to						
	to						
	to						
	to						
	to						
	to						

Hydric Soil Indicators

	Histosol		Gleyed or Low-Chroma Colors
	Histic Epipedon		Concretions/Soft Masses
	Sulfidic Odor		Hydric Criteria Met
	Reducing Conditions		Other

Remarks:

1/4" organic material over bedrock

HYDROLOGY

Primary Water Source(s):

	Groundwater Discharge		Overbank Flooding
	Perched Groundwater		Precipitation
X	Other in channel flow		

Wetland Hydrology Indicators:

X	Saturated (<12")	X	Inundated
X	Distinct Drainage Patterns		FAC-Neutral Test
	Water Marks/Moss Lichen Lines		Other
	Oxidized Rhizospheres		

WETLAND DETERMINATION

Hydrophytic vegetation present?	X	Yes		No
Wetland hydrology present?	X	Yes		No
Hydric soils present?	X	Yes		No

Remarks:

FUNCTIONS AND VALUE ASSESSMENT

	Function/Value:	Rating							
1	Surface Water Storage	X	H				L		N/A
2	Ground Water Discharge to Streams		H		M		L	X	N/A
3	Carbon/Nutrient Export	X	H		M		L		N/A
4	Provide Wildlife Habitat	X	H		M		L		N/A
5	Support WetlandPlants	X	H		M		L		N/A
6	Cultural Value		Yes			X	No		
7	Research/Scientific	X	Yes				No	Unique plant present	
8	Economic Value		Yes			X	No		
9	Exotic Present		Yes			X	No		

Remarks:

pic 39-43?

Little River, AL
WETLAND DETERMINATION

Invetigator(s):	Ken Morgan/Dan Twyman	Date:	5-24	2007
Site ID:	LIRI 17	Land Use:	Forested	
UTM: easting	16S 626659	Approximate Size:	0.12 acres	
northing	3807200			
Corwardin Class:	PFO1A	HGM Class:	Depression	

VEGETATION

	Dominant Plant Species	Stratum	Indicator
1	Athyrium filix-femina	Ground	FAC
2	Arundinaria gigantea	Ground	FACW
3	Acer rubrum	Tree	FAC
4			
5			
6			
7			

Percent of Dominant Species that are OBL, FACW, or FAC? 100%

	Other Plant Species	Stratum	Indicator
1	Smilax spp.	Vine	FAC
2	Vitis spp.	Vine	FAC
3	Quercus alba	Ground	FACU
4			
5			
6			

SOILS

Profile Description

Depth (inches)			Matrix Color (Munsell Color)		Mottle Color (Munsell Color)		Mottle Abundance/Contrast
0	to	5	10YR	5/3	10YR	5/6	1%
5	to	8	10YR	5/2	10YR	5/6	1%
8	to	12	10YR	5/2			
	to						
	to						
	to						
	to						

Hydric Soil Indicators

	Histosol	X	Gleyed or Low-Chroma Colors
	Histic Epipedon		Concretions/Soft Masses
	Sulfidic Odor		Hydric Criteria Met
	Reducing Conditions		Other

Remarks:

HYDROLOGY

Primary Water Source(s):

	Groundwater Discharge		Overbank Flooding
	Perched Groundwater		Precipitation
X	Other Adjacent runoff		

Wetland Hydrology Indicators:

X	Saturated (<12")		Inundated
	Distinct Drainage Patterns		FAC-Neutral Test
	Water Marks/Moss Lichen Lines		Other
X	Oxidized Rhizospheres		

WETLAND DETERMINATION

Hydrophytic vegetation present?	X	Yes		No
Wetland hydrology present?	X	Yes		No
Hydric soils present?	X	Yes		No

Remarks:

FUNCTIONS AND VALUE ASSESSMENT

Function/Value:		Rating							
1	Surface Water Storage	X	H				L		N/A
2	Ground Water Discharge to Streams		H		M	X	L		N/A
3	Carbon/Nutrient Export		H		M		L	X	N/A
4	Provide Wildlife Habitat	X	H		M		L		N/A
5	Support WetlandPlants		H		M	X	L		N/A
6	Cultural Value		Yes			X	No		
7	Research/Scientific		Yes			X	No		
8	Economic Value		Yes			X	No		
9	Exotic Present		Yes			X	No		

Remarks:

PIC 48-49

Little River, AL
WETLAND DETERMINATION

Invetigator(s):	Ken Morgan/Dan Twyman	Date:	5-25	2007
Site ID:	LIRI 18	Land Use:	Forested	
UTM: easting	16S 626776	Approximate Size:	0.05 acres	
northing	3807449			
Corwardin Class:	PFO1A	HGM Class:	Slope	

VEGETATION

	Dominant Plant Species	Stratum	Indicator
1	Athyrium filix-femina	Ground	FAC
2	Osmunda cinnamomea	Ground	FACW
3	Acer rubrum	Tree	FAC
4	Liriodendron tulipifera	Tree	FAC
5			
6			
7			

Percent of Dominant Species that are OBL, FACW, or FAC? 100%

	Other Plant Species	Stratum	Indicator
1	Smilax spp.	Vine	FAC
2	Vaccinium spp.	Shrub	Unknown
3			
4			
5			
6			

SOILS

Profile Description

Depth (inches)			Matrix Color (Munsell Color)		Mottle Color (Munsell Color)		Mottle Abundance/Contrast
0	to	4	10YR	5/4			
4	to	10	10YR	5/3	10YR	5/8	1%
10	to	12	10YR	5/2			
	to						
	to						
	to						
	to						

Hydric Soil Indicators

	Histosol	X	Gleyed or Low-Chroma Colors
	Histic Epipedon		Concretions/Soft Masses
	Sulfidic Odor		Hydric Criteria Met
	Reducing Conditions		Other

Remarks:

HYDROLOGY

Primary Water Source(s):

	Groundwater Discharge		Overbank Flooding
X	Perched Groundwater		Precipitation
	Other		

Wetland Hydrology Indicators:

	Saturated (<12")		Inundated
X	Distinct Drainage Patterns		FAC-Neutral Test
	Water Marks/Moss Lichen Lines		Other
X	Oxidized Rhizospheres		

WETLAND DETERMINATION

Hydrophytic vegetation present?	X	Yes		No
Wetland hydrology present?	X	Yes		No
Hydric soils present?	X	Yes		No

Remarks:

FUNCTIONS AND VALUE ASSESSMENT

Function/Value:		Rating							
1	Surface Water Storage		H				L	X	N/A
2	Ground Water Discharge to Streams		H		M	X	L		N/A
3	Carbon/Nutrient Export		H	X	M		L		N/A
4	Provide Wildlife Habitat		H	X	M		L		N/A
5	Support WetlandPlants		H		M	X	L		N/A
6	Cultural Value		Yes			X	No		
7	Research/Scientific	X	Yes				No	Herpetological research	
8	Economic Value		Yes			X	No		
9	Exotic Present		Yes			X	No		

Remarks:

pic 52-53

Little River, AL
WETLAND DETERMINATION

Invetigator(s):	Ken Morgan/Dan Twyman	Date:	5-25	2007
Site ID:	LIRI 19	Land Use:	Forested	
UTM: easting	16S 626891	Approximate Size:	0.03 acres	
northing	3807262			
Corwardin Class:	PFO1A	HGM Class:	Slope	

VEGETATION

	Dominant Plant Species	Stratum	Indicator
1	Azalea spp.	Shrub	FAC
2	Acer rubrum	Shrub/Tree	FAC
3	Chasmanthium laxum	Ground	FAC-
4			
5			
6			
7			

Percent of Dominant Species that are OBL, FACW, or FAC? 66%

	Other Plant Species	Stratum	Indicator
1	Sphagnum spp.	Ground	Unknown
2	Ilex opaca	Shrub	FAC-
3			
4			
5			
6			

SOILS

Profile Description

Depth (inches)			Matrix Color (Munsell Color)		Mottle Color (Munsell Color)		Mottle Abundance/Contrast
0	to	5	10YR	5/3			
5	to	12	10YR	5/2	10YR	5/6	1%
	to						
	to						
	to						
	to						
	to						

Hydric Soil Indicators

	Histosol	X	Gleyed or Low-Chroma Colors
	Histic Epipedon	X	Concretions/Soft Masses
	Sulfidic Odor		Hydric Criteria Met
	Reducing Conditions		Other

Remarks:

HYDROLOGY

Primary Water Source(s):

	Groundwater Discharge		Overbank Flooding
X	Perched Groundwater		Precipitation
	Other		

Wetland Hydrology Indicators:

	Saturated (<12")		Inundated
X	Distinct Drainage Patterns		FAC-Neutral Test
	Water Marks/Moss Lichen Lines		Other
X	Oxidized Rhizospheres		

WETLAND DETERMINATION

Hydrophytic vegetation present?	X	Yes		No
Wetland hydrology present?	X	Yes		No
Hydric soils present?	X	Yes		No

Remarks:

FUNCTIONS AND VALUE ASSESSMENT

Function/Value:		Rating								
1	Surface Water Storage		H				L	X	N/A	
2	Ground Water Discharge to Streams		H		M		L	X	N/A	
3	Carbon/Nutrient Export		H		M	X	L		N/A	Channel present
4	Provide Wildlife Habitat		H		M	X	L		N/A	
5	Support WetlandPlants		H		M	X	L		N/A	
6	Cultural Value		Yes			X	No			
7	Research/Scientific		Yes			X	No			
8	Economic Value		Yes			X	No			
9	Exotic Present		Yes			X	No			

Remarks:

pic 54-55

Little River, AL
WETLAND DETERMINATION

Invetigator(s):	Dan Twyman	Date:	5-23	2007
Site ID:	LIRI 20	Land Use:	Forested	
UTM: easting	16S 625657	Approximate Size:	0.09 acres	
northing	3804886			
Corwardin Class:	PFO1A	HGM Class:	Slope	

VEGETATION

	Dominant Plant Species	Stratum	Indicator
1	Liquidambar styraciflua	Tree	FAC
2	Nyssa slyvatica	Tree	FAC
3	Pinus taeda	Tree	FAC
4	Acer rubrum	Tree	FAC
5	Vaccinium spp.	Shrub	Unknown
6	Smilax rotundifolia	Vine	FAC
7	Athyrium filix-femina	Ground	FAC

Percent of Dominant Species that are OBL, FACW, or FAC? 83%

	Other Plant Species	Stratum	Indicator
1	Carex spp.	Ground	Unknown
2	Vitis spp.	Vine	FAC
3	Gentiana spp.	Ground	Unknown
4			
5			
6			

SOILS

Profile Description

Depth (inches)			Matrix Color (Munsell Color)		Mottle Color (Munsell Color)		Mottle Abundance/Contrast
0	to	6	10YR	4/1			
6	to	12	10YR	3/1			
	to						
	to						
	to						
	to						
	to						

Hydric Soil Indicators

	Histosol	X	Gleyed or Low-Chroma Colors
	Histic Epipedon		Concretions/Soft Masses
	Sulfidic Odor		Hydric Criteria Met
	Reducing Conditions		Other

Remarks:

HYDROLOGY

Primary Water Source(s):

	Groundwater Discharge		Overbank Flooding
X	Perched Groundwater	X	Precipitation
X	Other Runoff		

Wetland Hydrology Indicators:

	Saturated (<12")		Inundated
	Distinct Drainage Patterns		FAC-Neutral Test
X	Water Marks/Moss Lichen Lines		Other
X	Oxidized Rhizospheres		

WETLAND DETERMINATION

Hydrophytic vegetation present?	X	Yes		No
Wetland hydrology present?	X	Yes		No
Hydric soils present?	X	Yes		No

Remarks:

FUNCTIONS AND VALUE ASSESSMENT

Function/Value:		Rating							
1	Surface Water Storage		H				X	L		N/A
2	Ground Water Discharge to Streams		H		M		X	L		N/A
3	Carbon/Nutrient Export		H		M		X	L		N/A
4	Provide Wildlife Habitat		H	X	M			L		N/A
5	Support WetlandPlants		H		M		X	L		N/A
6	Cultural Value		Yes				X	No		
7	Research/Scientific		Yes				X	No		
8	Economic Value		Yes				X	No		
9	Exotic Present		Yes				X	No		

Remarks:

Little River, AL
WETLAND DETERMINATION

Invetigator(s):	Dan Twyman	Date:	5-24	2007
Site ID:	LIRI 21	Land Use:	Forested	
UTM: easting	16S 625839	Approximate Size:	0.15 acres	
northing	3807045			
Corwardin Class:	PFO1C	HGM Class:	Slope	

VEGETATION

	Dominant Plant Species	Stratum	Indicator
1	Acer rubrum	Tree	FAC
2	Smilax rotundifolia	Vine	FAC
3	Nyssa sylvatica	Tree	FAC
4	Pinus taeda	Tree	FAC
5	Vaccinium spp.	Shrub	Unknown
6			
7			

Percent of Dominant Species that are OBL, FACW, or FAC? 80%

	Other Plant Species	Stratum	Indicator
1	Liquidambar styrciflua	Shrub	FAC
2	Vitis spp.	Vine	FAC
3			
4			
5			
6			

SOILS

Profile Description

Depth (inches)			Matrix Color (Munsell Color)		Mottle Color (Munsell Color)		Mottle Abundance/Contrast
0	to	6	10YR	4/1			
6	to	12	10YR	5/1	10YR	5/4	1%
	to						
	to						
	to						
	to						
	to						

Hydric Soil Indicators

	Histosol	X	Gleyed or Low-Chroma Colors
	Histic Epipedon		Concretions/Soft Masses
	Sulfidic Odor		Hydric Criteria Met
	Reducing Conditions		Other

Remarks:

HYDROLOGY

Primary Water Source(s):

	Groundwater Discharge		Overbank Flooding
X	Perched Groundwater	X	Precipitation
X	Other Runoff		

Wetland Hydrology Indicators:

X	Saturated (<12")		Inundated
X	Distinct Drainage Patterns		FAC-Neutral Test
	Water Marks/Moss Lichen Lines		Other
X	Oxidized Rhizospheres		

WETLAND DETERMINATION

Hydrophytic vegetation present?	X	Yes		No
Wetland hydrology present?	X	Yes		No
Hydric soils present?	X	Yes		No

Remarks:

FUNCTIONS AND VALUE ASSESSMENT

Function/Value:		Rating							
1	Surface Water Storage		H			X	L		N/A
2	Ground Water Discharge to Streams		H		M		L	X	N/A
3	Carbon/Nutrient Export		H		M	X	L		N/A
4	Provide Wildlife Habitat		H	X	M		L		N/A
5	Support WetlandPlants		H		M	X	L		N/A
6	Cultural Value	X	Yes				No	Near road, interpretation	
7	Research/Scientific	X	Yes				No	herpetological research	
8	Economic Value		Yes			X	No		
9	Exotic Present		Yes			X	No		

Remarks:

pic 1-2

Little River, AL
WETLAND DETERMINATION

Invetigator(s):	Dan Twyman	Date:	5-24	2007
Site ID:	LIRI 22	Land Use:	Forested	
UTM: easting	16S 625838	Approximate Size:	0.01 acres	
northing	3807165			
Corwardin Class:	PFO1A	HGM Class:	Slope	

VEGETATION

	Dominant Plant Species	Stratum	Indicator
1	Acer rubrum	Tree	FAC
2	Vitis spp.	Vine	FAC
3	Vaccinium spp.	Shrub	Unknown
4			
5			
6			
7			

Percent of Dominant Species that are OBL, FACW, or FAC? 66%

	Other Plant Species	Stratum	Indicator
1	Lonicera japonica	Vine	FACU
2	Liquidambar styraciflua	Shrub	FAC
3			
4			
5			
6			

SOILS

Profile Description

Depth (inches)			Matrix Color (Munsell Color)		Mottle Color (Munsell Color)		Mottle Abundance/Contrast
0	to	3	10YR	3/2			
3	to	6	10YR	4/1			
6	to	12	10YR	5/2			
	to						
	to						
	to						
	to						

Hydric Soil Indicators

	Histosol		Gleyed or Low-Chroma Colors
	Histic Epipedon	X	Concretions/Soft Masses
	Sulfidic Odor		Hydric Criteria Met
	Reducing Conditions		Other

Remarks:

HYDROLOGY

Primary Water Source(s):

	Groundwater Discharge		Overbank Flooding
X	Perched Groundwater	X	Precipitation
X	Other Runoff		

Wetland Hydrology Indicators:

X	Saturated (<12")		Inundated
	Distinct Drainage Patterns		FAC-Neutral Test
	Water Marks/Moss Lichen Lines		Other
	Oxidized Rhizospheres		

WETLAND DETERMINATION

Hydrophytic vegetation present?	X	Yes		No
Wetland hydrology present?	X	Yes		No
Hydric soils present?	X	Yes		No

Remarks:

FUNCTIONS AND VALUE ASSESSMENT

Function/Value:		Rating							
1	Surface Water Storage		H			X	L		N/A
2	Ground Water Discharge to Streams		H		M		L	X	N/A
3	Carbon/Nutrient Export		H		M		L	X	N/A
4	Provide Wildlife Habitat		H		M	X	L		N/A
5	Support WetlandPlants		H		M	X	L		N/A
6	Cultural Value		Yes			X	No		
7	Research/Scientific		Yes			X	No		
8	Economic Value		Yes			X	No		
9	Exotic Present	X	Yes				No		Japanese Honeysuckle

Remarks:

pic 3-4

Little River, AL
WETLAND DETERMINATION

Invetigator(s):	Dan Twyman	Date:	5-24	2007
Site ID:	LIRI 23	Land Use:	Forest	
UTM: easting	16S 626654	Approximate Size:	0.11 acres	
northing	3807138			
Corwardin Class:	PFO1A	HGM Class:	Depression	

VEGETATION

	Dominant Plant Species	Stratum	Indicator
1	Athyrium filix-femina	Ground	FAC
2	Acer rubrum	Tree	FAC
3			
4			
5			
6			
7			

Percent of Dominant Species that are OBL, FACW, or FAC? 100%

	Other Plant Species	Stratum	Indicator
1	Panicum spp.	Ground	FAC
2	Vitis spp.	Vine	FAC
3	Fraxinus pennsylvanica	Tree	FACW
4			
5			
6			

SOILS

Profile Description

Depth (inches)			Matrix Color (Munsell Color)		Mottle Color (Munsell Color)		Mottle Abundance/Contrast
0	to	6	10YR	4/1	5YR	4/4	25%
6	to	12	10YR	5/1	5YR	4/4	25%
	to						
	to						
	to						
	to						
	to						

Hydric Soil Indicators

	Histosol	X	Gleyed or Low-Chroma Colors
	Histic Epipedon		Concretions/Soft Masses
	Sulfidic Odor		Hydric Criteria Met
	Reducing Conditions		Other

Remarks:

HYDROLOGY

Primary Water Source(s):

	Groundwater Discharge		Overbank Flooding
	Perched Groundwater	X	Precipitation
X	Other Runoff		

Wetland Hydrology Indicators:

	Saturated (<12")		Inundated
	Distinct Drainage Patterns		FAC-Neutral Test
X	Water Marks/Moss Lichen Lines		Other
X	Oxidized Rhizospheres		

WETLAND DETERMINATION

Hydrophytic vegetation present?	X	Yes		No
Wetland hydrology present?	X	Yes		No
Hydric soils present?	X	Yes		No

Remarks:

FUNCTIONS AND VALUE ASSESSMENT

Function/Value:		Rating								
1	Surface Water Storage	X	H				L		N/A	
2	Ground Water Discharge to Streams		H		M	X	L		N/A	has outlet
3	Carbon/Nutrient Export		H		M	X	L		N/A	has outlet
4	Provide Wildlife Habitat	X	H		M		L		N/A	
5	Support WetlandPlants		H		M	X	L		N/A	
6	Cultural Value		Yes			X	No			
7	Research/Scientific	X	Yes				No	Herpetological Research		
8	Economic Value		Yes			X	No			
9	Exotic Present		Yes			X	No			

Remarks:

pic 13-14

Little River, AL
WETLAND DETERMINATION

Invetigator(s):	Dan Twyman	Date:	5-24	2007
Site ID:	LIRI 24	Land Use:	Forested	
UTM: easting	16S 626449	Approximate Size:	0.10 acres	
northing	3807245			
Corwardin Class:	PFO1C	HGM Class:	Slope	

VEGETATION

	Dominant Plant Species	Stratum	Indicator
1	Nyssa sylvatica	Tree	FAC
2	Acer rubrum	Tree/Shrub	FAC
3	Eupatorium purpureum	Ground	FAC
4	Solidago spp.	Ground	FAC
5	Athyrium filix-femina	Ground	FAC
6			
7			

Percent of Dominant Species that are OBL, FACW, or FAC? 100%

	Other Plant Species	Stratum	Indicator
1	Ligustrum vulgare	Shrub	FAC
2			
3			
4			
5			
6			

SOILS

Profile Description

Depth (inches)			Matrix Color (Munsell Color)		Mottle Color (Munsell Color)		Mottle Abundance/Contrast
0	to	6	10YR	4/1	5YR	5/6	25%
6	to	12	10YR	5/1	5YR	5/6	25%
	to						
	to						
	to						
	to						
	to						

Hydric Soil Indicators

	Histosol	X	Gleyed or Low-Chroma Colors
	Histic Epipedon		Concretions/Soft Masses
	Sulfidic Odor		Hydric Criteria Met
	Reducing Conditions		Other

Remarks:

HYDROLOGY

Primary Water Source(s):

X	Groundwater Discharge		Overbank Flooding
X	Perched Groundwater		Precipitation
	Other		

Wetland Hydrology Indicators:

X	Saturated (<12")		Inundated
	Distinct Drainage Patterns		FAC-Neutral Test
	Water Marks/Moss Lichen Lines		Other
X	Oxidized Rhizospheres		

WETLAND DETERMINATION

Hydrophytic vegetation present?	X	Yes		No
Wetland hydrology present?	X	Yes		No
Hydric soils present?	X	Yes		No

Remarks:

FUNCTIONS AND VALUE ASSESSMENT

Function/Value:		Rating							
1	Surface Water Storage		H			X	L		N/A
2	Ground Water Discharge to Streams		H		M	X	L		N/A
3	Carbon/Nutrient Export		H		M	X	L		N/A
4	Provide Wildlife Habitat		H	X	M		L		N/A
5	Support WetlandPlants		H		M	X	L		N/A
6	Cultural Value		Yes			X	No		
7	Research/Scientific	X	Yes				No	Herpetological research	
8	Economic Value		Yes			X	No		
9	Exotic Present	X	Yes				No	Privet	

Remarks:

photos 11-12

Little River, AL
WETLAND DETERMINATION

Invetigator(s):	Dan Twyman	Date:	5-24	2007
Site ID:	LIRI 25	Land Use:	Forested	
UTM: easting	16S 625571	Approximate Size:	0.20 acres	
northing	3807300			
Corwardin Class:	PFO1A	HGM Class:	Slope	

VEGETATION

	Dominant Plant Species	Stratum	Indicator
1	Acer rubrum	Tree	FAC
2	Nyssa sylvatica	Tree	FAC
3	Panicum spp.	Ground	Unknown
4	Carex intumescens	Ground	FACW
5			
6			
7			

Percent of Dominant Species that are OBL, FACW, or FAC? 66%

	Other Plant Species	Stratum	Indicator
1	Osmunda cinnamomea	Ground	FACW
2	Carex spp.	Ground	Unknown
3			
4			
5			
6			

SOILS

Profile Description

Depth (inches)			Matrix Color (Munsell Color)		Mottle Color (Munsell Color)		Mottle Abundance/Contrast
0	to	4	10YR	4/1	10YR	4/6	10%
4	to	6	10YR	4/2	10YR	4/6	10%
6	to	12	10YR	5/2			
	to						
	to						
	to						
	to						

Hydric Soil Indicators

	Histosol	X	Gleyed or Low-Chroma Colors
	Histic Epipedon		Concretions/Soft Masses
	Sulfidic Odor		Hydric Criteria Met
	Reducing Conditions		Other

Remarks:

HYDROLOGY

Primary Water Source(s):

	Groundwater Discharge		Overbank Flooding
X	Perched Groundwater	X	Precipitation
X	Other Run off		

Wetland Hydrology Indicators:

X	Saturated (<12")		Inundated
	Distinct Drainage Patterns		FAC-Neutral Test
	Water Marks/Moss Lichen Lines		Other
X	Oxidized Rhizospheres		

WETLAND DETERMINATION

Hydrophytic vegetation present?	X	Yes		No
Wetland hydrology present?	X	Yes		No
Hydric soils present?	X	Yes		No

Remarks:

FUNCTIONS AND VALUE ASSESSMENT

Function/Value:		Rating								
1	Surface Water Storage		H				L	X	N/A	
2	Ground Water Discharge to Streams		H		M	X	L		N/A	Outlet present
3	Carbon/Nutrient Export		H		M	X	L		N/A	Outlet present
4	Provide Wildlife Habitat		H		M	X	L		N/A	
5	Support WetlandPlants		H		M	X	L		N/A	
6	Cultural Value		Yes			X	No			
7	Research/Scientific		Yes			X	No			
8	Economic Value		Yes			X	No			
9	Exotic Present		Yes			X	No			

Remarks:

pic

Little River, AL
WETLAND DETERMINATION

Invetigator(s):	Dan Twyman	Date:	5-24	2007
Site ID:	LIRI 26	Land Use:	Clear area in forest	
UTM: easting	625572	Approximate Size:	0.05 acres	
northing	3807298			
Corwardin Class:	PSS1C	HGM Class:	Slope	

VEGETATION

	Dominant Plant Species	Stratum	Indicator
1	Juncus effusus	Ground	FACW
2	Carex crinita	Ground	FACW
3	Solidago spp.	Ground	Unknown
4	Osmunda cinnamomea	Ground	FACW
5	Liriodendron tulipifera	Shrub	FAC
6	Liquidambar styraciflua	Shrub	FAC+
7			

Percent of Dominant Species that are OBL, FACW, or FAC? 75%

	Other Plant Species	Stratum	Indicator
1	Eupatorium perfoliatum	Ground	FACW
2	Eupatorium purpereum	Ground	FAC-
3			
4			
5			
6			

SOILS

Profile Description

Depth (inches)			Matrix Color (Munsell Color)		Mottle Color (Munsell Color)		Mottle Abundance/Contrast
0	to	3	10YR	4/1	10YR	4/4	5%
3	to	9	10YR	4/2	10YR	4/4	5%
9	to	12	10YR	4/3			
	to						
	to						
	to						
	to						

Hydric Soil Indicators

	Histosol	X	Gleyed or Low-Chroma Colors
	Histic Epipedon		Concretions/Soft Masses
	Sulfidic Odor		Hydric Criteria Met
	Reducing Conditions		Other

Remarks:

HYDROLOGY

Primary Water Source(s):

	Groundwater Discharge		Overbank Flooding
X	Perched Groundwater	X	Precipitation
X	Other		

Wetland Hydrology Indicators:

X	Saturated (<12")		Inundated
	Distinct Drainage Patterns		FAC-Neutral Test
	Water Marks/Moss Lichen Lines		Other
X	Oxidized Rhizospheres		

WETLAND DETERMINATION

Hydrophytic vegetation present?	X	Yes		No
Wetland hydrology present?	X	Yes		No
Hydric soils present?	X	Yes		No

Remarks:

FUNCTIONS AND VALUE ASSESSMENT

Function/Value:		Rating							
1	Surface Water Storage		H				L	X	N/A
2	Ground Water Discharge to Streams		H		M	X	L		N/A
3	Carbon/Nutrient Export		H		M	X	L		N/A
4	Provide Wildlife Habitat	X	H		M		L		N/A
5	Support WetlandPlants		H	X	M		L		N/A
6	Cultural Value		Yes			X	No		
7	Research/Scientific	X	Yes				No	Herpetological Research	
8	Economic Value		Yes			X	No		
9	Exotic Present		Yes			X	No		

Remarks:

Little River, AL
WETLAND DETERMINATION

Invetigator(s):	Dan Twyman	Date:	5-24	2007
Site ID:	LIRI 27	Land Use:	Forested	
UTM: easting	16S 625783	Approximate Size:	0.10 acres	
northing	3807262			
Corwardin Class:	PFO1A	HGM Class:	Slope	

VEGETATION

	Dominant Plant Species	Stratum	Indicator
1	Osmunda cinnamomea	Ground	FACW+
2	Nyssa sylvatica	Shrub	FAC
3	Acer rubrum	Tree/Shrub	FAC
4			
5			
6			
7			

Percent of Dominant Species that are OBL, FACW, or FAC? 100%

	Other Plant Species	Stratum	Indicator
1	Vitis spp.	Vine	FAC
2			
3			
4			
5			
6			

SOILS

Profile Description

Depth (inches)			Matrix Color (Munsell Color)		Mottle Color (Munsell Color)		Mottle Abundance/Contrast
0	to	4	10YR	4/1			
4	to	12	10YR	4/2			
	to						
	to						
	to						
	to						
	to						

Hydric Soil Indicators

	Histosol	X	Gleyed or Low-Chroma Colors
	Histic Epipedon		Concretions/Soft Masses
	Sulfidic Odor		Hydric Criteria Met
	Reducing Conditions		Other

Remarks:

HYDROLOGY

Primary Water Source(s):

	Groundwater Discharge		Overbank Flooding
X	Perched Groundwater	X	Precipitation
X	Other Runoff		

Wetland Hydrology Indicators:

X	Saturated (<12")		Inundated
	Distinct Drainage Patterns		FAC-Neutral Test
	Water Marks/Moss Lichen Lines		Other
X	Oxidized Rhizospheres		

WETLAND DETERMINATION

Hydrophytic vegetation present?	X	Yes		No
Wetland hydrology present?	X	Yes		No
Hydric soils present?	X	Yes		No

Remarks:

FUNCTIONS AND VALUE ASSESSMENT

Function/Value:		Rating							
1	Surface Water Storage		H			X	L		N/A
2	Ground Water Discharge to Streams		H		M		L	X	N/A
3	Carbon/Nutrient Export		H		M		L	X	N/A
4	Provide Wildlife Habitat		H		M	X	L		N/A
5	Support WetlandPlants		H		M	X	L		N/A
6	Cultural Value		Yes			X	No		
7	Research/Scientific		Yes			X	No		
8	Economic Value		Yes			X	No		
9	Exotic Present		Yes			X	No		

Remarks:

PIC 5-6

Little River, AL
WETLAND DETERMINATION

Invetigator(s):	Dan Twyman	Date:	5-25	2007
Site ID:	LIRI 28	Land Use:	Forested	
UTM: easting	16S 626753	Approximate Size:	0.12 acres	
northing	3807470			
Corwardin Class:	PFO1A	HGM Class:	Slope	

VEGETATION

	Dominant Plant Species	Stratum	Indicator
1	Osmunda cinnamomea	Ground	FACW+
2	Acer rubrum	Tree	FAC
3	Azalea spp.	Shrub	Unknown
4	Smilax spp.	Ground	Unknown
5			
6			
7			

Percent of Dominant Species that are OBL, FACW, or FAC? 50%

	Other Plant Species	Stratum	Indicator
1	Osmunda cinnamomea	Ground	FACW
2	Vaccinium spp.	Shrub	Unknown
3			
4			
5			
6			

SOILS

Profile Description

Depth (inches)			Matrix Color (Munsell Color)		Mottle Color (Munsell Color)		Mottle Abundance/Contrast
0	to	4	10YR	4/1	10YR	4/6	10%
4	to	8	10YR	4/6	10YR	4/6	25%
8	to	12	10YR	6/1	10YR	4/6	25%
	to						
	to						
	to						
	to						

Hydric Soil Indicators

	Histosol	X	Gleyed or Low-Chroma Colors
	Histic Epipedon		Concretions/Soft Masses
	Sulfidic Odor		Hydric Criteria Met
	Reducing Conditions		Other

Remarks:

HYDROLOGY

Primary Water Source(s):

	Groundwater Discharge		Overbank Flooding
X	Perched Groundwater	X	Precipitation
X	Other Runoff		

Wetland Hydrology Indicators:

	Saturated (<12")		Inundated
X	Distinct Drainage Patterns		FAC-Neutral Test
	Water Marks/Moss Lichen Lines		Other
X	Oxidized Rhizospheres		

WETLAND DETERMINATION

Hydrophytic vegetation present?	X	Yes		No
Wetland hydrology present?	X	Yes		No
Hydric soils present?	X	Yes		No

Remarks:

FUNCTIONS AND VALUE ASSESSMENT

Function/Value:		Rating							
1	Surface Water Storage		H				L	X	N/A
2	Ground Water Discharge to Streams		H	X	M		L		N/A
3	Carbon/Nutrient Export		H		M	X	L		N/A
4	Provide Wildlife Habitat		H		M	X	L		N/A
5	Support WetlandPlants		H		M	X	L		N/A
6	Cultural Value		Yes			X	No		
7	Research/Scientific		Yes			X	No		
8	Economic Value		Yes			X	No		
9	Exotic Present		Yes			X	No		

Remarks:

PIC 15-16

Little River, AL
WETLAND DETERMINATION

Invetigator(s):	Dan Twyman	Date:	5-25	2007
Site ID:	LIRI 29	Land Use:	Forested	
UTM: easting	16S 626985	Approximate Size:	0.07 acres	
northing	3807338			
Corwardin Class:	PFO1A	HGM Class:	Slope	

VEGETATION

	Dominant Plant Species	Stratum	Indicator
1	Osmundo cinnamomea	Ground	FACW
2	Athyrium filix-femina	Ground	FAC
3	Acer rubrum	Tree	FAC
4	Nyssa sylvatica	Tree	FAC
5			
6			
7			

Percent of Dominant Species that are OBL, FACW, or FAC? 100%

	Other Plant Species	Stratum	Indicator
1	Osmunda regalis	Ground	OBL
2	Vaccinium spp.	Shrub	Unknown
3	Liquidambar styraciflua	Tree/Shrub	FAC
4			
5			
6			

SOILS

Profile Description

Depth (inches)			Matrix Color (Munsell Color)		Mottle Color (Munsell Color)		Mottle Abundance/Contrast
0	to	4	10YR	5/2			
4	to	9	10YR	6/2	10YR	5/6	15%
9	to	12	10YR	6/2	10YR	5/6	40%
	to						
	to						
	to						
	to						

Hydric Soil Indicators

	Histosol	X	Gleyed or Low-Chroma Colors
	Histic Epipedon		Concretions/Soft Masses
	Sulfidic Odor		Hydric Criteria Met
	Reducing Conditions		Other

Remarks:

HYDROLOGY

Primary Water Source(s):

	Groundwater Discharge		Overbank Flooding
X	Perched Groundwater	X	Precipitation
X	Other Runoff		

Wetland Hydrology Indicators:

	Saturated (<12")		Inundated
X	Distinct Drainage Patterns		FAC-Neutral Test
	Water Marks/Moss Lichen Lines		Other
X	Oxidized Rhizospheres		

WETLAND DETERMINATION

Hydrophytic vegetation present?	X	Yes		No
Wetland hydrology present?	X	Yes		No
Hydric soils present?	X	Yes		No

Remarks:

FUNCTIONS AND VALUE ASSESSMENT

Function/Value:		Rating							
1	Surface Water Storage		H				L	X	N/A
2	Ground Water Discharge to Streams		H		M	X	L		N/A
3	Carbon/Nutrient Export		H		M	X	L		N/A
4	Provide Wildlife Habitat		H		M	X	L		N/A
5	Support WetlandPlants		H	X	M		L		N/A
6	Cultural Value		Yes			X	No		
7	Research/Scientific		Yes			X	No		
8	Economic Value		Yes			X	No		
9	Exotic Present		Yes			X	No		

Remarks:

Little River, AL
WETLAND DETERMINATION

Invetigator(s):	Dan Twyman	Date:	5-25	2007
Site ID:	LIRI 30	Land Use:	Forested	
UTM: easting	16S 627144	Approximate Size:	0.38 acres	
northing	3807227			
Corwardin Class:	PFO1A	HGM Class:	Slope	

VEGETATION

	Dominant Plant Species	Stratum	Indicator
1	Acer rubrum	Tree	FAC
2	Nyssa sylvatica	Tree	FAC
3	Osmunda cinnamomea	Ground	FACW
4	Smilax rotundifolia	Vine	FAC
5			
6			
7			

Percent of Dominant Species that are OBL, FACW, or FAC? 100%

	Other Plant Species	Stratum	Indicator
1	Azalea spp.	Shrub	Unknown
2	Carex spp.	Ground	Ground
3			
4			
5			
6			

SOILS

Profile Description

Depth (inches)			Matrix Color (Munsell Color)		Mottle Color (Munsell Color)		Mottle Abundance/Contrast
0	to	4	10YR	7/3			
4	to	12	10YR	6/2	10YR	5/6	10%
	to						
	to						
	to						
	to						
	to						

Hydric Soil Indicators

	Histosol	X	Gleyed or Low-Chroma Colors
	Histic Epipedon		Concretions/Soft Masses
	Sulfidic Odor		Hydric Criteria Met
	Reducing Conditions		Other

Remarks:

HYDROLOGY

Primary Water Source(s):

	Groundwater Discharge		Overbank Flooding
X	Perched Groundwater	X	Precipitation
X	Other Runoff		

Wetland Hydrology Indicators:

	Saturated (<12")		Inundated
X	Distinct Drainage Patterns		FAC-Neutral Test
	Water Marks/Moss Lichen Lines		Other
X	Oxidized Rhizospheres		

WETLAND DETERMINATION

Hydrophytic vegetation present?	X	Yes		No
Wetland hydrology present?	X	Yes		No
Hydric soils present?	X	Yes		No

Remarks:

FUNCTIONS AND VALUE ASSESSMENT

Function/Value:		Rating							
1	Surface Water Storage		H				L	X	N/A
2	Ground Water Discharge to Streams		H		M	X	L		N/A
3	Carbon/Nutrient Export		H		M		L		N/A
4	Provide Wildlife Habitat		H		M	X	L		N/A
5	Support WetlandPlants		H		M	X	L		N/A
6	Cultural Value		Yes			X	No		
7	Research/Scientific	X	Yes				No	Larger than average size	
8	Economic Value		Yes			X	No		
9	Exotic Present		Yes			X	No		

Remarks:

pic 19-20

Little River, AL
WETLAND DETERMINATION

Invetigator(s):	Dan Twyman	Date:	5-30	2007
Site ID:	LIRI 31	Land Use:	Forested	
UTM: easting	16S 627279	Approximate Size:	0.15 acres	
northing	3807453			
Corwardin Class:	PFO1A	HGM Class:	Slope	

VEGETATION

	Dominant Plant Species	Stratum	Indicator
1	Nyssa sylvatica	Tree	FAC
2	Acer rubrum	Tree	FAC
3	Vaccinium spp.	Shrub	Unknown
4	Osmunda cinnamomea	Ground	FACW
5			
6			
7			

Percent of Dominant Species that are OBL, FACW, or FAC? 75%

	Other Plant Species	Stratum	Indicator
1	Azalea spp.	Shrub	Unknown
2	Smilax rotundifolia	Vine	FAC
3			
4			
5			
6			

SOILS

Profile Description

Depth (inches)			Matrix Color (Munsell Color)		Mottle Color (Munsell Color)		Mottle Abundance/Contrast
0	to	5	10YR	5/2			
5	to	12	10YR	6/2			
	to						
	to						
	to						
	to						
	to						

Hydric Soil Indicators

	Histosol	X	Gleyed or Low-Chroma Colors
	Histic Epipedon		Concretions/Soft Masses
	Sulfidic Odor		Hydric Criteria Met
	Reducing Conditions		Other

Remarks:

HYDROLOGY

Primary Water Source(s):

	Groundwater Discharge		Overbank Flooding
X	Perched Groundwater		Precipitation
X	Other Runoff		

Wetland Hydrology Indicators:

X	Saturated (<12")		Inundated
X	Distinct Drainage Patterns		FAC-Neutral Test
	Water Marks/Moss Lichen Lines		Other
X	Oxidized Rhizospheres		

WETLAND DETERMINATION

Hydrophytic vegetation present?	X	Yes		No
Wetland hydrology present?	X	Yes		No
Hydric soils present?	X	Yes		No

Remarks:

FUNCTIONS AND VALUE ASSESSMENT

Function/Value:		Rating							
1	Surface Water Storage		H				L	X	N/A
2	Ground Water Discharge to Streams		H		M	X	L		N/A
3	Carbon/Nutrient Export		H		M	X	L		N/A
4	Provide Wildlife Habitat		H	X	M		L		N/A
5	Support WetlandPlants		H		M	X	L		N/A
6	Cultural Value		Yes			X	No		
7	Research/Scientific	X	Yes				No	herpetological research	
8	Economic Value		Yes			X	No		
9	Exotic Present		Yes			X	No		

Remarks:

photo 22-23

Little River, AL
WETLAND DETERMINATION

Invetigator(s):	Dan Twyman	Date:	6-2	2007
Site ID:	LIRI 32	Land Use:	Forested	
UTM: easting	16S 627248	Approximate Size:	0.05 acres	
northing	3807334			
Corwardin Class:	PFO1A	HGM Class:	Depression	

VEGETATION

	Dominant Plant Species	Stratum	Indicator
1	Acer rubrum	Tree	FAC
2	Nyssa sylvatica	Tree/Shrub	FAC
3	Pinus taeda	Tree	FAC
4	Smilax spp.	Vine	FAC
5	Osmunda cinnamomea	Ground	FACW+
6			
7			

Percent of Dominant Species that are OBL, FACW, or FAC? 100%

	Other Plant Species	Stratum	Indicator
1	Liquidambar styraciflua	Tree/Shrub	FAC
2			
3			
4			
5			
6			

SOILS

Profile Description

Depth (inches)			Matrix Color (Munsell Color)		Mottle Color (Munsell Color)		Mottle Abundance/Contrast
0	to	4	10YR	5/2			
4	to	12	10YR	6/2	10YR	5/6	20%
	to						
	to						
	to						
	to						
	to						

Hydric Soil Indicators

	Histosol	X	Gleyed or Low-Chroma Colors
	Histic Epipedon		Concretions/Soft Masses
	Sulfidic Odor		Hydric Criteria Met
	Reducing Conditions		Other

Remarks:

HYDROLOGY

Primary Water Source(s):

	Groundwater Discharge		Overbank Flooding
X	Perched Groundwater	X	Precipitation
X	Other Runoff		

Wetland Hydrology Indicators:

	Saturated (<12")		Inundated
	Distinct Drainage Patterns		FAC-Neutral Test
X	Water Marks/Moss Lichen Lines		Other
X	Oxidized Rhizospheres		

WETLAND DETERMINATION

Hydrophytic vegetation present?	X	Yes		No
Wetland hydrology present?	X	Yes		No
Hydric soils present?	X	Yes		No

Remarks:

FUNCTIONS AND VALUE ASSESSMENT

Function/Value:		Rating							
1	Surface Water Storage		H				X	L		N/A
2	Ground Water Discharge to Streams		H		M			L	X	N/A
3	Carbon/Nutrient Export		H		M			L	X	N/A
4	Provide Wildlife Habitat		H		M		X	L		N/A
5	Support WetlandPlants		H		M		X	L		N/A
6	Cultural Value		Yes				X	No		
7	Research/Scientific		Yes				X	No		
8	Economic Value		Yes				X	No		
9	Exotic Present		Yes				X	No		

Remarks:

PIC 24-25

Little River, AL
WETLAND DETERMINATION

Invetigator(s):	Dan Twyman	Date:	6-29	2007
Site ID:	LIRI 33	Land Use:	Forested	
UTM: easting	16S 628262	Approximate Size:	0.09 acres	
northing	3809075			
Corwardin Class:	PFO1A	HGM Class:	Slope	

VEGETATION

	Dominant Plant Species	Stratum	Indicator
1	Acer rubrum	Tree	FAC
2	Nyssa sylvatica	Tree	FAC
3	Athyrum filix-femina	Ground	FAC
4	Osmunda cinnamomea	Ground	FACW
5			
6			
7			

Percent of Dominant Species that are OBL, FACW, or FAC? 100%

	Other Plant Species	Stratum	Indicator
1	Sphagnum spp.	Ground	Unknown
2			
3			
4			
5			
6			

SOILS

Profile Description

Depth (inches)			Matrix Color (Munsell Color)		Mottle Color (Munsell Color)		Mottle Abundance/Contrast
0	to	6	10YR	4/1			
6	to	12	10YR	5/1			
	to						
	to						
	to						
	to						
	to						

Hydric Soil Indicators

	Histosol	X	Gleyed or Low-Chroma Colors
	Histic Epipedon		Concretions/Soft Masses
	Sulfidic Odor		Hydric Criteria Met
	Reducing Conditions		Other

Remarks:

HYDROLOGY

Primary Water Source(s):

	Groundwater Discharge		Overbank Flooding
	Perched Groundwater	X	Precipitation
X	Other Runoff		

Wetland Hydrology Indicators:

	Saturated (<12")		Inundated
X	Distinct Drainage Patterns		FAC-Neutral Test
	Water Marks/Moss Lichen Lines		Other
X	Oxidized Rhizospheres		

WETLAND DETERMINATION

Hydrophytic vegetation present?	X	Yes		No
Wetland hydrology present?	X	Yes		No
Hydric soils present?	X	Yes		No

Remarks:

FUNCTIONS AND VALUE ASSESSMENT

Function/Value:		Rating							
1	Surface Water Storage		H				L	X	N/A
2	Ground Water Discharge to Streams		H		M	X	L		N/A
3	Carbon/Nutrient Export		H		M	X	L		N/A
4	Provide Wildlife Habitat		H		M	X	L		N/A
5	Support WetlandPlants		H		M	X	L		N/A
6	Cultural Value		Yes			X	No		
7	Research/Scientific		Yes			X	No		
8	Economic Value		Yes			X	No		
9	Exotic Present		Yes			X	No		

Remarks:

PIC 26-27

Little River, AL
WETLAND DETERMINATION

Invetigator(s):	Dan Tywman	Date:	6-29	2007
Site ID:	LIRI 34	Land Use:	Forested	
UTM: easting	16S 628050	Approximate Size:	0.07 acres	
northing	3809177			
Corwardin Class:	PFO1A	HGM Class:	Slope	

VEGETATION

	Dominant Plant Species	Stratum	Indicator
1	Osmunda cinnamomea	Ground	FACW
2	Acer rubrum	Tree	FAC
3	Athyrium filix-femina	Ground	FAC
4			
5			
6			
7			

Percent of Dominant Species that are OBL, FACW, or FAC? 100%

	Other Plant Species	Stratum	Indicator
1	Liriodendron tulipifera	Tree	FAC
2			
3			
4			
5			
6			

SOILS

Profile Description

Depth (inches)			Matrix Color (Munsell Color)		Mottle Color (Munsell Color)		Mottle Abundance/Contrast
0	to	3	10YR	4/3			
3	to	12	10YR	4/1			
	to						
	to						
	to						
	to						
	to						

Hydric Soil Indicators

	Histosol	X	Gleyed or Low-Chroma Colors
	Histic Epipedon		Concretions/Soft Masses
	Sulfidic Odor		Hydric Criteria Met
	Reducing Conditions		Other

Remarks:

HYDROLOGY

Primary Water Source(s):

	Groundwater Discharge		Overbank Flooding
	Perched Groundwater	X	Precipitation
X	Other		

Wetland Hydrology Indicators:

	Saturated (<12")		Inundated
X	Distinct Drainage Patterns		FAC-Neutral Test
	Water Marks/Moss Lichen Lines		Other
X	Oxidized Rhizospheres		

WETLAND DETERMINATION

Hydrophytic vegetation present?	X	Yes		No
Wetland hydrology present?	X	Yes		No
Hydric soils present?	X	Yes		No

Remarks:

FUNCTIONS AND VALUE ASSESSMENT

Function/Value:		Rating							
1	Surface Water Storage		H				L	X	N/A
2	Ground Water Discharge to Streams		H		M	X	L		N/A
3	Carbon/Nutrient Export		H		M	X	L		N/A
4	Provide Wildlife Habitat		H		M	X	L		N/A
5	Support WetlandPlants		H		M	X	L		N/A
6	Cultural Value		Yes			X	No		
7	Research/Scientific		Yes			X	No		
8	Economic Value		Yes			X	No		
9	Exotic Present		Yes			X	No		

Remarks:

PIC 30-31

Little River, AL
WETLAND DETERMINATION

Invetigator(s):	Dan Twyman	Date:	7-2	2007
Site ID:	LIRI 35	Land Use:	Forested	
UTM: easting	16S 628662	Approximate Size:	0.02 acres	
northing	3809675			
Corwardin Class:	PFO1A	HGM Class:	Depression	

VEGETATION

	Dominant Plant Species	Stratum	Indicator
1	Liquidambar styraciflua	Tree	FAC
2	Acer rubrum	Tree	FAC
3	Osmunda cinnamomea	Ground	FACW
4			
5			
6			
7			

Percent of Dominant Species that are OBL, FACW, or FAC? 100%

	Other Plant Species	Stratum	Indicator
1	Vitis spp.	Vine	FAC
2			
3			
4			
5			
6			

SOILS

Profile Description

Depth (inches)			Matrix Color (Munsell Color)		Mottle Color (Munsell Color)		Mottle Abundance/Contrast
0	to	5	10YR	4/2			
5	to	12	10YR	4/2	10YR	5/6	5%
	to						
	to						
	to						
	to						
	to						

Hydric Soil Indicators

	Histosol	X	Gleyed or Low-Chroma Colors
	Histic Epipedon		Concretions/Soft Masses
	Sulfidic Odor		Hydric Criteria Met
	Reducing Conditions		Other

Remarks:

HYDROLOGY

Primary Water Source(s):

	Groundwater Discharge		Overbank Flooding
	Perched Groundwater	X	Precipitation
X	Other Runoff		

Wetland Hydrology Indicators:

	Saturated (<12")		Inundated
X	Distinct Drainage Patterns		FAC-Neutral Test
	Water Marks/Moss Lichen Lines		Other
X	Oxidized Rhizospheres		

WETLAND DETERMINATION

Hydrophytic vegetation present?	X	Yes		No
Wetland hydrology present?	X	Yes		No
Hydric soils present?	X	Yes		No

Remarks:

FUNCTIONS AND VALUE ASSESSMENT

Function/Value:		Rating							
1	Surface Water Storage		H				X	L		N/A
2	Ground Water Discharge to Streams		H		M			L	X	N/A
3	Carbon/Nutrient Export		H		M			L	X	N/A
4	Provide Wildlife Habitat		H		M		X	L		N/A
5	Support WetlandPlants		H		M		X	L		N/A
6	Cultural Value		Yes				X	No		
7	Research/Scientific		Yes				X	No		
8	Economic Value		Yes				X	No		
9	Exotic Present		Yes				X	No		

Remarks:

PIC 30-31

Little River, AL
WETLAND DETERMINATION

Invetigator(s):	Dan Twyman	Date:	7-2	2007
Site ID:	LIRI 36	Land Use:	Forested	
UTM: northing	16S 628787	Approximate Size:	0.55 acres	
easting	3809751			
Corwardin Class:	PFO1A	HGM Class:	Slope	

VEGETATION

	Dominant Plant Species	Stratum	Indicator
1	Acer rubrum	Tree	FAC
2	Liquidambar styraciflua	Tree	FAC
3	Nyssa sylvatica	Tree	FAC
4	Osmunda cinnamomea	Ground	FACW
5			
6			
7			

Percent of Dominant Species that are OBL, FACW, or FAC? 100%

	Other Plant Species	Stratum	Indicator
1	Arundinaria gigantea	Ground	FACW
2			
3			
4			
5			
6			

SOILS

Profile Description

Depth (inches)			Matrix Color (Munsell Color)		Mottle Color (Munsell Color)		Mottle Abundance/Contrast
0	to	3	10YR	4/2			
3	to	12	10YR	5/2			
	to						
	to						
	to						
	to						
	to						

Hydric Soil Indicators

	Histosol	X	Gleyed or Low-Chroma Colors
	Histic Epipedon		Concretions/Soft Masses
	Sulfidic Odor		Hydric Criteria Met
	Reducing Conditions		Other

Remarks:

HYDROLOGY

Primary Water Source(s):

	Groundwater Discharge		Overbank Flooding
	Perched Groundwater	X	Precipitation
X	Other Runoff		

Wetland Hydrology Indicators:

	Saturated (<12")		Inundated
X	Distinct Drainage Patterns		FAC-Neutral Test
X	Water Marks/Moss Lichen Lines		Other
	Oxidized Rhizospheres		

WETLAND DETERMINATION

Hydrophytic vegetation present?	X	Yes		No
Wetland hydrology present?	X	Yes		No
Hydric soils present?	X	Yes		No

Remarks:

FUNCTIONS AND VALUE ASSESSMENT

Function/Value:		Rating							
1	Surface Water Storage		H			X	L		N/A
2	Ground Water Discharge to Streams		H		M	X	L		N/A
3	Carbon/Nutrient Export		H		M	X	L		N/A
4	Provide Wildlife Habitat		H		M	X	L		N/A
5	Support WetlandPlants		H		M	X	L		N/A
6	Cultural Value	X	Yes				No	Near trail, interpretation	
7	Research/Scientific	X	Yes				No	Larger than average size	
8	Economic Value		Yes			X	No		
9	Exotic Present		Yes			X	No		

Remarks:

pic 32-34

Little River, AL
WETLAND DETERMINATION

Invetigator(s):	Dan Twyman	Date:	7-3	2007
Site ID:	LIRI 37	Land Use:	Forested	
UTM: easting	16S 627581	Approximate Size:	0.02 acres	
northing	3808906			
Corwardin Class:	PFO1C	HGM Class:	Slope	

VEGETATION

	Dominant Plant Species	Stratum	Indicator
1	Osmunda cinnamomea	Ground	FACW
2	Acer rubrum	Tree	FAC
3	Nyssa sylvatica	Tree	FAC
4			
5			
6			
7			

Percent of Dominant Species that are OBL, FACW, or FAC? 100%

	Other Plant Species	Stratum	Indicator
1	Arundinaria gigantea	Ground	FACW
2	Azalea spp.	Shrub	Unknown
3			
4			
5			
6			

SOILS

Profile Description

Depth (inches)			Matrix Color (Munsell Color)		Mottle Color (Munsell Color)		Mottle Abundance/Contrast
0	to	6	10YR	4/2			
6	to	12	10YR	5/2	10YR	6/6	20%
	to						
	to						
	to						
	to						
	to						

Hydric Soil Indicators

	Histosol	X	Gleyed or Low-Chroma Colors
	Histic Epipedon		Concretions/Soft Masses
	Sulfidic Odor		Hydric Criteria Met
	Reducing Conditions		Other

Remarks:

HYDROLOGY

Primary Water Source(s):

	Groundwater Discharge		Overbank Flooding
	Perched Groundwater	X	Precipitation
X	Other Runoff		

Wetland Hydrology Indicators:

X	Saturated (<12")		Inundated
	Distinct Drainage Patterns		FAC-Neutral Test
	Water Marks/Moss Lichen Lines		Other
X	Oxidized Rhizospheres		

WETLAND DETERMINATION

Hydrophytic vegetation present?	X	Yes		No
Wetland hydrology present?	X	Yes		No
Hydric soils present?	X	Yes		No

Remarks:

FUNCTIONS AND VALUE ASSESSMENT

Function/Value:		Rating							
1	Surface Water Storage		H			X	L		N/A
2	Ground Water Discharge to Streams		H	X	M		L		N/A
3	Carbon/Nutrient Export		H	X	M		L		N/A
4	Provide Wildlife Habitat		H	X	M		L		N/A
5	Support WetlandPlants		H		M	X	L		N/A
6	Cultural Value		Yes			X	No		
7	Research/Scientific	X	Yes				No	Herpetological research	
8	Economic Value		Yes			X	No		
9	Exotic Present		Yes			X	No		

Remarks:

pic 35-36

Little River, AL
WETLAND DETERMINATION

Invetigator(s):	Dan Twyman	Date:	7-5	2007
Site ID:	LIRI 38	Land Use:	Forested	
UTM: easting	16S 627085	Approximate Size:	0.01 acres	
northing	3808895			
Corwardin Class:	PFO1C	HGM Class:	Slope	

VEGETATION

	Dominant Plant Species	Stratum	Indicator
1	Osmunda cinnamomea	Ground	FACW
2	Acer rubrum	Tree	FAC
3	Vaccinium spp.	Ground	Unknown
4			
5			
6			
7			

Percent of Dominant Species that are OBL, FACW, or FAC? 66%

	Other Plant Species	Stratum	Indicator
1	Azalea spp.	Shrub	Unknown
2			
3			
4			
5			
6			

SOILS

Profile Description

Depth (inches)			Matrix Color (Munsell Color)		Mottle Color (Munsell Color)		Mottle Abundance/Contrast
0	to	4	10YR	4/1			
4	to	8	10YR	5/1			
8	to	12	10YR	5/2			
	to						
	to						
	to						
	to						

Hydric Soil Indicators

	Histosol	X	Gleyed or Low-Chroma Colors
	Histic Epipedon		Concretions/Soft Masses
	Sulfidic Odor		Hydric Criteria Met
	Reducing Conditions		Other

Remarks:

HYDROLOGY

Primary Water Source(s):

X	Groundwater Discharge		Overbank Flooding
	Perched Groundwater		Precipitation
	Other		

Wetland Hydrology Indicators:

X	Saturated (<12")		Inundated
	Distinct Drainage Patterns		FAC-Neutral Test
	Water Marks/Moss Lichen Lines		Other
	Oxidized Rhizospheres		

WETLAND DETERMINATION

Hydrophytic vegetation present?	X	Yes		No
Wetland hydrology present?	X	Yes		No
Hydric soils present?	X	Yes		No

Remarks:

FUNCTIONS AND VALUE ASSESSMENT

Function/Value:		Rating							
1	Surface Water Storage		H				L	X	N/A
2	Ground Water Discharge to Streams		H		M	X	L		N/A
3	Carbon/Nutrient Export		H		M	X	L		N/A
4	Provide Wildlife Habitat		H	X	M		L		N/A
5	Support WetlandPlants		H	X	M		L		N/A
6	Cultural Value		Yes			X	No		
7	Research/Scientific	X	Yes				No	Herpetological Research	
8	Economic Value		Yes			X	No		
9	Exotic Present		Yes			X	No		

Remarks:

pic 39-40

Little River, AL
WETLAND DETERMINATION

Invetigator(s):	Dan Twyman	Date:	7-5	2007
Site ID:	LIRI 39	Land Use:	Forested	
UTM: easting	16S 627131	Approximate Size:	0.10 acres	
northing	3808750			
Corwardin Class:	PFO1C	HGM Class:	Slope	

VEGETATION

	Dominant Plant Species	Stratum	Indicator
1	Osmunda cinnamomea	Ground	FACW
2	Athyrium filix-femina	Ground	FAC
3	Acer rubrum	Tree	FAC
4	Nyssa sylvatica	Tree/Shrub	FAC
5	Chasmanthium laxum	Ground	FAC
6			
7			

Percent of Dominant Species that are OBL, FACW, or FAC? 100%

	Other Plant Species	Stratum	Indicator
1	Vaccinium spp.	Shrub	Unknown
2	Liriodendron tulipifera	Tree	FAC
3			
4			
5			
6			

SOILS

Profile Description

Depth (inches)			Matrix Color (Munsell Color)		Mottle Color (Munsell Color)		Mottle Abundance/Contrast
0	to	3	10YR	3/2			
3	to	10	10YR	4/2			
10	to	12	10YR	5/2	10YR	5/6	10%
	to						
	to						
	to						
	to						

Hydric Soil Indicators

	Histosol	X	Gleyed or Low-Chroma Colors
	Histic Epipedon		Concretions/Soft Masses
	Sulfidic Odor		Hydric Criteria Met
	Reducing Conditions		Other

Remarks:

HYDROLOGY

Primary Water Source(s):

X	Groundwater Discharge		Overbank Flooding
	Perched Groundwater	X	Precipitation
X	Other Runoff		

Wetland Hydrology Indicators:

X	Saturated (<12")		Inundated
	Distinct Drainage Patterns		FAC-Neutral Test
	Water Marks/Moss Lichen Lines		Other
X	Oxidized Rhizospheres		

WETLAND DETERMINATION

Hydrophytic vegetation present?	X	Yes		No
Wetland hydrology present?	X	Yes		No
Hydric soils present?	X	Yes		No

Remarks:

FUNCTIONS AND VALUE ASSESSMENT

Function/Value:		Rating							
1	Surface Water Storage		H			X	L		N/A
2	Ground Water Discharge to Streams		H	X	M		L		N/A
3	Carbon/Nutrient Export		H	X	M		L		N/A
4	Provide Wildlife Habitat		H	X	M		L		N/A
5	Support WetlandPlants		H		M	X	L		N/A
6	Cultural Value		Yes			X	No		
7	Research/Scientific	X	Yes				No	Herpetological Research	
8	Economic Value		Yes			X	No		
9	Exotic Present		Yes			X	No		

Remarks:

pic 39-40

Little River, AL
WETLAND DETERMINATION

Invetigator(s):	Dan Twyman	Date:	7-5	2007
Site ID:	LIRI 40	Land Use:	Forested	
UTM: easting	16S 626610	Approximate Size:	0.01 acres	
northing	3807697			
Corwardin Class:	PFO1A	HGM Class:	Slope	

VEGETATION

	Dominant Plant Species	Stratum	Indicator
1	Osmunda cinnamomea	Ground	FACW
2	Aythrium filix-femina	Ground	FAC
3	Nyssa sylvatica	Tree	FAC
4	Acer rubrum	Tree	FAC
5			
6			
7			

Percent of Dominant Species that are OBL, FACW, or FAC? 100%

	Other Plant Species	Stratum	Indicator
1	Rhododendron canescens	Shrub	Unknown
2	Asimina triloba	Shrub	FAC
3	Smilax spp.	Vine	FAC
4	Arundinaria gigantea	Ground	FACW
5			
6			

SOILS

Profile Description

Depth (inches)			Matrix Color (Munsell Color)		Mottle Color (Munsell Color)		Mottle Abundance/Contrast
0	to	6	10YR	4/2			
6	to	12	10YR	5/2	10YR	5/6	15%
	to						
	to						
	to						
	to						
	to						

Hydric Soil Indicators

	Histosol	X	Gleyed or Low-Chroma Colors
	Histic Epipedon		Concretions/Soft Masses
	Sulfidic Odor		Hydric Criteria Met
	Reducing Conditions		Other

Remarks:

HYDROLOGY

Primary Water Source(s):

X	Groundwater Discharge		Overbank Flooding
	Perched Groundwater		Precipitation
X	Other Runoff		

Wetland Hydrology Indicators:

	Saturated (<12")		Inundated
	Distinct Drainage Patterns		FAC-Neutral Test
	Water Marks/Moss Lichen Lines		Other
X	Oxidized Rhizospheres		

WETLAND DETERMINATION

Hydrophytic vegetation present?	X	Yes		No
Wetland hydrology present?	X	Yes		No
Hydric soils present?	X	Yes		No

Remarks:

FUNCTIONS AND VALUE ASSESSMENT

Function/Value:		Rating							
1	Surface Water Storage		H			X	L		N/A
2	Ground Water Discharge to Streams		H		M	X	L		N/A
3	Carbon/Nutrient Export		H		M	X	L		N/A
4	Provide Wildlife Habitat		H		M	X	L		N/A
5	Support WetlandPlants		H		M	X	L		N/A
6	Cultural Value		Yes			X	No		
7	Research/Scientific		Yes			X	No		
8	Economic Value		Yes			X	No		
9	Exotic Present		Yes			X	No		

Remarks:

PIC 37-38

Little River, AL
WETLAND DETERMINATION

Invetigator(s):	Dan Twyman	Date:	7-18	2007
Site ID:	LIRI 41	Land Use:	Forested	
UTM: easting	16S 627777	Approximate Size:	0.03 acres	
northing	3809912			
Corwardin Class:	PFO1A	HGM Class:	Slope	

VEGETATION

	Dominant Plant Species	Stratum	Indicator
1	Nyssa sylvatica	Tree/Shrub	FAC
2	Acer rubrum	Tree	FAC
3	Smilax rotundifolia	Vine	FAC
4	Osmunda cinnamomea	Ground	FACW+
5			
6			
7			

Percent of Dominant Species that are OBL, FACW, or FAC? 100%

	Other Plant Species	Stratum	Indicator
1	Vaccinium spp.	Shrub	Unknown
2			
3			
4			
5			
6			

SOILS

Profile Description

Depth (inches)			Matrix Color (Munsell Color)		Mottle Color (Munsell Color)		Mottle Abundance/Contrast
0	to	10	10YR	6/2	10YR	5/6	10%
10	to	12	10YR	6/1	10YR	5/6	25%
	to						
	to						
	to						
	to						
	to						

Hydric Soil Indicators

	Histosol	X	Gleyed or Low-Chroma Colors
	Histic Epipedon		Concretions/Soft Masses
	Sulfidic Odor		Hydric Criteria Met
	Reducing Conditions		Other

Remarks:

HYDROLOGY

Primary Water Source(s):

	Groundwater Discharge		Overbank Flooding
	Perched Groundwater	X	Precipitation
X	Other		

Wetland Hydrology Indicators:

	Saturated (<12")		Inundated
	Distinct Drainage Patterns		FAC-Neutral Test
X	Water Marks/Moss Lichen Lines		Other
X	Oxidized Rhizospheres		

WETLAND DETERMINATION

Hydrophytic vegetation present?	X	Yes		No
Wetland hydrology present?	X	Yes		No
Hydric soils present?	X	Yes		No

Remarks:

FUNCTIONS AND VALUE ASSESSMENT

Function/Value:		Rating							
1	Surface Water Storage		H			X	L		N/A
2	Ground Water Discharge to Streams		H		M	X	L		N/A
3	Carbon/Nutrient Export		H		M	X	L		N/A
4	Provide Wildlife Habitat		H		M	X	L		N/A
5	Support WetlandPlants		H		M	X	L		N/A
6	Cultural Value		Yes			X	No		
7	Research/Scientific		Yes			X	No		
8	Economic Value		Yes			X	No		
9	Exotic Present		Yes			X	No		

Remarks:

PIC 43-44

Little River, AL
WETLAND DETERMINATION

Invetigator(s):	Dan Twyman	Date:	7-22	2007
Site ID:	LIRI 42	Land Use:	Forested	
UTM: east	16S 627312	Approximate Size:	0.04 acres	
easting	3809968			
Corwardin Class:	PFO1A	HGM Class:	Slope	

VEGETATION

	Dominant Plant Species	Stratum	Indicator
1	Nyssa sylvatica	Tree	FAC
2	Vitis spp.	Vine	FAC
3	Athyrium filix-femina	Ground	OBL
4			
5			
6			
7			

Percent of Dominant Species that are OBL, FACW, or FAC? 100%

	Other Plant Species	Stratum	Indicator
1	Lycopus spp.	Ground	FACW
2	Osmunda regalis	Ground	OBL
3			
4			
5			
6			

SOILS

Profile Description

Depth (inches)			Matrix Color (Munsell Color)		Mottle Color (Munsell Color)		Mottle Abundance/Contrast
0	to	3	10YR	3/1			
3	to	8	10YR	4/2			
8	to	12	10YR	6/2	10YR	6/6	10%
	to						
	to						
	to						
	to						

Hydric Soil Indicators

	Histosol	X	Gleyed or Low-Chroma Colors
	Histic Epipedon		Concretions/Soft Masses
	Sulfidic Odor		Hydric Criteria Met
	Reducing Conditions		Other

Remarks:

HYDROLOGY

Primary Water Source(s):

	Groundwater Discharge		Overbank Flooding
	Perched Groundwater	X	Precipitation
X	Other Runoff		

Wetland Hydrology Indicators:

	Saturated (<12")		Inundated
X	Distinct Drainage Patterns		FAC-Neutral Test
	Water Marks/Moss Lichen Lines		Other
X	Oxidized Rhizospheres		

WETLAND DETERMINATION

Hydrophytic vegetation present?	X	Yes		No
Wetland hydrology present?	X	Yes		No
Hydric soils present?	X	Yes		No

Remarks:

FUNCTIONS AND VALUE ASSESSMENT

Function/Value:		Rating							
1	Surface Water Storage		H			X	L		N/A
2	Ground Water Discharge to Streams		H		M	X	L		N/A
3	Carbon/Nutrient Export		H		M	X	L		N/A
4	Provide Wildlife Habitat		H		M	X	L		N/A
5	Support WetlandPlants		H		M	X	L		N/A
6	Cultural Value		Yes			X	No		
7	Research/Scientific		Yes			X	No		
8	Economic Value		Yes			X	No		
9	Exotic Present		Yes			X	No		

Remarks:

PIC 45-46

Little River, AL
WETLAND DETERMINATION

Invetigator(s):	Dan Twyman	Date:	7-23	2007
Site ID:	LIRI 43	Land Use:	Forested	
UTM: easting	16S 629138	Approximate Size:	0.04 acres	
northing	3810483			
Corwardin Class:	PFO1A	HGM Class:	Slope	

VEGETATION

	Dominant Plant Species	Stratum	Indicator
1	Acer rubrum	Tree	FAC
2	Osmunda cinnamomea	Ground	FACW
3	Carex spp.	Ground	FAC
4			
5			
6			
7			

Percent of Dominant Species that are OBL, FACW, or FAC? 100%

	Other Plant Species	Stratum	Indicator
1	Smilax spp.	Vine	FAC
2			
3			
4			
5			
6			

SOILS

Profile Description

Depth (inches)			Matrix Color (Munsell Color)		Mottle Color (Munsell Color)		Mottle Abundance/Contrast
0	to	6	10YR	5/2			
6	to	12	10YR	6/2	7.5YR	5/6	20%
	to						
	to						
	to						
	to						
	to						

Hydric Soil Indicators

	Histosol	X	Gleyed or Low-Chroma Colors
	Histic Epipedon	X	Concretions/Soft Masses
	Sulfidic Odor		Hydric Criteria Met
	Reducing Conditions		Other

Remarks:

HYDROLOGY

Primary Water Source(s):

	Groundwater Discharge		Overbank Flooding
	Perched Groundwater	X	Precipitation
X	Other Runoff		

Wetland Hydrology Indicators:

	Saturated (<12")		Inundated
	Distinct Drainage Patterns		FAC-Neutral Test
X	Water Marks/Moss Lichen Lines		Other
X	Oxidized Rhizospheres		

WETLAND DETERMINATION

Hydrophytic vegetation present?	X	Yes		No
Wetland hydrology present?	X	Yes		No
Hydric soils present?	X	Yes		No

Remarks:

FUNCTIONS AND VALUE ASSESSMENT

Function/Value:		Rating							
1	Surface Water Storage		H			X	L		N/A
2	Ground Water Discharge to Streams		H		M	X	L		N/A
3	Carbon/Nutrient Export		H		M	X	L		N/A
4	Provide Wildlife Habitat		H		M	X	L		N/A
5	Support WetlandPlants		H		M	X	L		N/A
6	Cultural Value	X	Yes				No	Interpretation, Near road	
7	Research/Scientific		Yes			X	No		
8	Economic Value		Yes			X	No		
9	Exotic Present		Yes			X	No		

Remarks:

pic 47-48

Little River, AL
WETLAND DETERMINATION

Invetigator(s):	Dan Twyman	Date:	7-23	2007
Site ID:	LIRI 44	Land Use:	Forested	
UTM: easting	16S 629411	Approximate Size:	0.17 acres	
northing	3800575			
Corwardin Class:	PFO1A	HGM Class:	Slope	

VEGETATION

	Dominant Plant Species	Stratum	Indicator
1	Acer rubrum	Tree	FAC
2	Athyrium filix-femina	Ground	FAC
3	Osmunda cinnamomea	Ground	FACW
4	Vitis spp.	Vine	FAC
5			
6			
7			

Percent of Dominant Species that are OBL, FACW, or FAC? 100%

	Other Plant Species	Stratum	Indicator
1	Lysopus spp.	Ground	FACW
2			
3			
4			
5			
6			

SOILS

Profile Description

Depth (inches)			Matrix Color (Munsell Color)		Mottle Color (Munsell Color)		Mottle Abundance/Contrast
0	to	4	10YR	5/3			
4	to	8	10YR	5/2	10YR	5/6	5%
8	to	12	10YR	5/2			
	to						
	to						
	to						
	to						

Hydric Soil Indicators

	Histosol	X	Gleyed or Low-Chroma Colors
	Histic Epipedon		Concretions/Soft Masses
	Sulfidic Odor		Hydric Criteria Met
	Reducing Conditions		Other

Remarks:

HYDROLOGY

Primary Water Source(s):

	Groundwater Discharge		Overbank Flooding
	Perched Groundwater	X	Precipitation
X	Other		

Wetland Hydrology Indicators:

	Saturated (<12")		Inundated
X	Distinct Drainage Patterns		FAC-Neutral Test
	Water Marks/Moss Lichen Lines		Other
X	Oxidized Rhizospheres		

WETLAND DETERMINATION

Hydrophytic vegetation present?	X	Yes		No
Wetland hydrology present?	X	Yes		No
Hydric soils present?	X	Yes		No

Remarks:

FUNCTIONS AND VALUE ASSESSMENT

Function/Value:		Rating							
1	Surface Water Storage		H			X	L		N/A
2	Ground Water Discharge to Streams		H		M	X	L		N/A
3	Carbon/Nutrient Export		H		M	X	L		N/A
4	Provide Wildlife Habitat		H		M	X	L		N/A
5	Support WetlandPlants		H		M	X	L		N/A
6	Cultural Value		Yes			X	No		
7	Research/Scientific		Yes			X	No		
8	Economic Value		Yes			X	No		
9	Exotic Present		Yes			X	No		

Remarks:

PIC 51-52

Little River, AL
WETLAND DETERMINATION

Invetigator(s):	Dan Twyman	Date:	7-25	2007
Site ID:	LIRI 45	Land Use:	Forested	
UTM: easting	16S 629055	Approximate Size:	0.19 acres	
northing	3810723			
Corwardin Class:	PFO1A	HGM Class:	Slope	

VEGETATION

	Dominant Plant Species	Stratum	Indicator
1	Nyssa sylvatica	Tree	FAC
2	Osmunda cinnamomea	Ground	FACW
3	Acer rubrum	Tree	FAC
4	Smilax spp.	Vine	FAC
5	Athyrium filix-femina	Ground	FAC
6			
7			

Percent of Dominant Species that are OBL, FACW, or FAC? 100%

	Other Plant Species	Stratum	Indicator
1	Osmunda regalis	Ground	OBL
2	Oxydendron arboreum	Tree	NI
3			
4			
5			
6			

SOILS

Profile Description

Depth (inches)			Matrix Color (Munsell Color)		Mottle Color (Munsell Color)		Mottle Abundance/Contrast
0	to	3	10YR	5/4			
3	to	9	10YR	5/1	10YR	5/6	10%
9	to	12	10YR	5/1	10YR	5/6	5%
	to						
	to						
	to						
	to						

Hydric Soil Indicators

	Histosol	X	Gleyed or Low-Chroma Colors
	Histic Epipedon	X	Concretions/Soft Masses
	Sulfidic Odor		Hydric Criteria Met
	Reducing Conditions		Other

Remarks:

HYDROLOGY

Primary Water Source(s):

	Groundwater Discharge		Overbank Flooding
	Perched Groundwater	X	Precipitation
X	Other Runoff		

Wetland Hydrology Indicators:

	Saturated (<12")		Inundated
	Distinct Drainage Patterns		FAC-Neutral Test
X	Water Marks/Moss Lichen Lines		Other
X	Oxidized Rhizospheres		

WETLAND DETERMINATION

Hydrophytic vegetation present?	X	Yes		No
Wetland hydrology present?	X	Yes		No
Hydric soils present?	X	Yes		No

Remarks:

FUNCTIONS AND VALUE ASSESSMENT

Function/Value:		Rating							
1	Surface Water Storage		H				X	L		N/A
2	Ground Water Discharge to Streams		H	X	M			L		N/A
3	Carbon/Nutrient Export		H	X	M			L		N/A
4	Provide Wildlife Habitat		H		M		X	L		N/A
5	Support WetlandPlants		H		M		X	L		N/A
6	Cultural Value		Yes				X	No		
7	Research/Scientific		Yes				X	No		
8	Economic Value		Yes				X	No		
9	Exotic Present		Yes				X	No		

Remarks:

PIC 53-54

Little River, AL
WETLAND DETERMINATION

Invetigator(s):	Dan Twyman	Date:	7-25	2007
Site ID:	LIRI 46	Land Use:	Forested	
UTM: easting	16S 629133	Approximate Size:	0.10 acres	
northing	3811910			
Corwardin Class:	PFO1A	HGM Class:	Slope	

VEGETATION

	Dominant Plant Species	Stratum	Indicator
1	Osmunda cinnamomea	Ground	FACW
2	Acer rubrum	Tree	FAC
3	Athyrium filix-femina	Ground	FAC
4			
5			
6			
7			

Percent of Dominant Species that are OBL, FACW, or FAC? 100%

	Other Plant Species	Stratum	Indicator
1	Vitis sp.	Vine	FAC
2	Liquidambar styraciflua	Tree	FAC
3	Osmunda regalis	Ground	OBL
4			
5			
6			

SOILS

Profile Description

Depth (inches)			Matrix Color (Munsell Color)		Mottle Color (Munsell Color)		Mottle Abundance/Contrast
0	to	6	10YR	4/1			
6	to	12	10YR	5/2	5YR	6/8	5%
	to						
	to						
	to						
	to						
	to						

Hydric Soil Indicators

	Histosol	X	Gleyed or Low-Chroma Colors
	Histic Epipedon		Concretions/Soft Masses
	Sulfidic Odor		Hydric Criteria Met
	Reducing Conditions		Other

Remarks:

HYDROLOGY

Primary Water Source(s):

	Groundwater Discharge		Overbank Flooding
	Perched Groundwater	X	Precipitation
X	Other Runoff		

Wetland Hydrology Indicators:

	Saturated (<12")		Inundated
	Distinct Drainage Patterns		FAC-Neutral Test
X	Water Marks/Moss Lichen Lines		Other
X	Oxidized Rhizospheres		

WETLAND DETERMINATION

Hydrophytic vegetation present?	X	Yes		No
Wetland hydrology present?	X	Yes		No
Hydric soils present?	X	Yes		No

Remarks:

FUNCTIONS AND VALUE ASSESSMENT

Function/Value:		Rating							
1	Surface Water Storage		H			X	L		N/A
2	Ground Water Discharge to Streams		H		M	X	L		N/A
3	Carbon/Nutrient Export		H		M	X	L		N/A
4	Provide Wildlife Habitat		H		M	X	L		N/A
5	Support WetlandPlants		H		M	X	L		N/A
6	Cultural Value	X	Yes				No	Interpretation, Near road	
7	Research/Scientific		Yes			X	No		
8	Economic Value		Yes			X	No		
9	Exotic Present		Yes			X	No		

Remarks:

Pic 55-57

Little River, AL
WETLAND DETERMINATION

Invetigator(s):	Dan Twyman	Date:	7-25	2007
Site ID:	LIRI 47	Land Use:	Forested	
UTM: easting	16S 629702	Approximate Size:	0.12 acres	
northing	3810988			
Corwardin Class:	PFO1A	HGM Class:	Slope	

VEGETATION

	Dominant Plant Species	Stratum	Indicator
1	Nyssa sylvatica	Tree	FAC
2	Liquidambar styaciflua	Tree	FAC
3	Athyruim felix-femina	Ground	FAC
4	Osmunda cinnamomea	Ground	FACW
5	Acer rubrum	Tree	FAC
6			
7			

Percent of Dominant Species that are OBL, FACW, or FAC? 100%

	Other Plant Species	Stratum	Indicator
1	Smilax rotundifolia	Vine	FAC
2	Arndinaria gigantea	Ground	FACW
3	Osmunda regalis	Ground	OBL
4			
5			
6			

SOILS

Profile Description

Depth (inches)			Matrix Color (Munsell Color)		Mottle Color (Munsell Color)		Mottle Abundance/Contrast
0	to	4	10YR	5/3			
4	to	12	10YR	5/2			
	to						
	to						
	to						
	to						
	to						

Hydric Soil Indicators

	Histosol	X	Gleyed or Low-Chroma Colors
	Histic Epipedon	X	Concretions/Soft Masses
	Sulfidic Odor		Hydric Criteria Met
	Reducing Conditions		Other

Remarks:

HYDROLOGY

Primary Water Source(s):

	Groundwater Discharge		Overbank Flooding
	Perched Groundwater		Precipitation
X	Other Runoff		

Wetland Hydrology Indicators:

	Saturated (<12")		Inundated
	Distinct Drainage Patterns		FAC-Neutral Test
X	Water Marks/Moss Lichen Lines		Other
X	Oxidized Rhizospheres		

WETLAND DETERMINATION

Hydrophytic vegetation present?	X	Yes		No
Wetland hydrology present?	X	Yes		No
Hydric soils present?	X	Yes		No

Remarks:

FUNCTIONS AND VALUE ASSESSMENT

Function/Value:		Rating							
1	Surface Water Storage		H			X	L		N/A
2	Ground Water Discharge to Streams		H		M	X	L		N/A
3	Carbon/Nutrient Export		H		M	X	L		N/A
4	Provide Wildlife Habitat		H		M	X	L		N/A
5	Support WetlandPlants		H		M	X	L		N/A
6	Cultural Value	X	Yes				No		
7	Research/Scientific		Yes			X	No		
8	Economic Value		Yes			X	No		
9	Exotic Present		Yes			X	No		

Remarks:

PIC 60-62

Little River, AL
WETLAND DETERMINATION

Invetigator(s):	Dan Twyman		Date:	7-26	2007
Site ID:	LIRI 48		Land Use:	Forested	
UTM: easting	16S 630062		Approximate Size:	0.63 acres	
northing	3811342				
Corwa northing	PFO1A		HGM Class:	Slope	

VEGETATION

	Dominant Plant Species	Stratum	Indicator
1	Nyssa sylvatica	Tree	FAC
2	Liquidambar styraciflua	Tree	FAC
3	Acer rubrum	Tree/Shrub	FAC
4	Chasmanthium sessiliflorum	Ground	FAC+
5	Arythium filix-femina	Ground	FAC
6			
7			

Percent of Dominant Species that are OBL, FACW, or FAC? 100%

	Other Plant Species	Stratum	Indicator
1	Vitis spp.	Vine	FAC
2	Osmunda regalis	Ground	OBL
3			
4			
5			
6			

SOILS

Profile Description

Depth (inches)			Matrix Color (Munsell Color)		Mottle Color (Munsell Color)		Mottle Abundance/Contrast
0	to	4	10YR	5/1			
4	to	8	10YR	6/1	10YR	5/6	5%
8	to	12	10YR	7/1			
	to						
	to						
	to						
	to						

Hydric Soil Indicators

	Histosol	X	Gleyed or Low-Chroma Colors
	Histic Epipedon		Concretions/Soft Masses
	Sulfidic Odor		Hydric Criteria Met
	Reducing Conditions		Other

Remarks:

HYDROLOGY

Primary Water Source(s):

X	Groundwater Discharge		Overbank Flooding
	Perched Groundwater	X	Precipitation
X	Other Runoff		

Wetland Hydrology Indicators:

	Saturated (<12")		Inundated
X	Distinct Drainage Patterns		FAC-Neutral Test
X	Water Marks/Moss Lichen Lines		Other
X	Oxidized Rhizospheres		

WETLAND DETERMINATION

Hydrophytic vegetation present?	X	Yes		No
Wetland hydrology present?	X	Yes		No
Hydric soils present?	X	Yes		No

Remarks:

FUNCTIONS AND VALUE ASSESSMENT

Function/Value:		Rating								
1	Surface Water Storage		H			X	L		N/A	microdepressions
2	Ground Water Discharge to Streams		H		M	X	L		N/A	
3	Carbon/Nutrient Export		H		M	X	L		N/A	
4	Provide Wildlife Habitat	X	H		M		L		N/A	Herps
5	Support WetlandPlants		H		M	X	L		N/A	
6	Cultural Value		Yes			X	No			
7	Research/Scientific	X	Yes				No	Larger than average size		
8	Economic Value		Yes			X	No			
9	Exotic Present		Yes			X	No			

Remarks:

Little River, AL
WETLAND DETERMINATION

Invetigator(s):	Dan Twyman	Date:	7-26	2007
Site ID:	LIRI 49	Land Use:	Forested	
UTM: easting	16S 629779	Approximate Size:	0.19 acres	
northing	3811665			
Corwardin Class:	PFO1C	HGM Class:	Depression	

VEGETATION

	Dominant Plant Species	Stratum	Indicator
1	Athyrium filix-femina	Ground	FAC
2	Liquidambar styraciflua	Tree	FAC
3	Acer rubrum	Tree	FAC
4	Liriodendron tulipfera	Tree	FAC
5			
6			
7			

Percent of Dominant Species that are OBL, FACW, or FAC? 100%

	Other Plant Species	Stratum	Indicator
1	Osmunda cinnamomea	Ground	FACW
2	Chasmanthium sessiliflorum	Ground	FAC
3			
4			
5			
6			

SOILS

Profile Description

Depth (inches)			Matrix Color (Munsell Color)		Mottle Color (Munsell Color)		Mottle Abundance/Contrast
0	to	2	10YR	3/2			
2	to	6	10YR	4/2			
6	to	12	10YR	5/2	10YR	5/6	25%
	to						
	to						
	to						
	to						

Hydric Soil Indicators

	Histosol	X	Gleyed or Low-Chroma Colors
	Histic Epipedon		Concretions/Soft Masses
	Sulfidic Odor		Hydric Criteria Met
	Reducing Conditions		Other

Remarks:

HYDROLOGY

Primary Water Source(s):

	Groundwater Discharge		Overbank Flooding
	Perched Groundwater	X	Precipitation
X	Other Runoff		

Wetland Hydrology Indicators:

	Saturated (<12")		Inundated
	Distinct Drainage Patterns		FAC-Neutral Test
X	Water Marks/Moss Lichen Lines		Other
X	Oxidized Rhizospheres		

WETLAND DETERMINATION

Hydrophytic vegetation present?	X	Yes		No
Wetland hydrology present?	X	Yes		No
Hydric soils present?	X	Yes		No

Remarks:

FUNCTIONS AND VALUE ASSESSMENT

Function/Value:		Rating							
1	Surface Water Storage	X	H				L		N/A
2	Ground Water Discharge to Streams		H		M	X	L		N/A
3	Carbon/Nutrient Export		H		M	X	L		N/A
4	Provide Wildlife Habitat		H	X	M		L		N/A
5	Support WetlandPlants		H		M	X	L		N/A
6	Cultural Value		Yes			X	No		
7	Research/Scientific	X	Yes				No		
8	Economic Value		Yes			X	No		
9	Exotic Present		Yes			X	No		

Remarks:

pic 65-67

Little River, AL
WETLAND DETERMINATION

Invetigator(s):	Dan Twyman	Date:	7-27	2007
Site ID:	LIRI 50	Land Use:	Forested	
UTM: easting	16S 630029	Approximate Size:	0.03 acres	
northing	3812975			
Corwardin Class:	PFO1A	HGM Class:	Slope	

VEGETATION

	Dominant Plant Species	Stratum	Indicator
1	Athyrium filix-femina	Ground	FAC
2	Nyssa sylvatica	Tree	FAC
3	Acer rubrum	Tree	FAC
4			
5			
6			
7			

Percent of Dominant Species that are OBL, FACW, or FAC? 100%

	Other Plant Species	Stratum	Indicator
1	Osmunda cinnamomea	Ground	FACW
2	Sphagnum spp.	Ground	Unknown
3			
4			
5			
6			

SOILS

Profile Description

Depth (inches)			Matrix Color (Munsell Color)		Mottle Color (Munsell Color)		Mottle Abundance/Contrast
0	to	2	10YR	5/4			
2	to	4	10YR	5/2	7.5YR	5/6	5%
4	to	8	10YR	6/2			
	to						
	to						
	to						
	to						

Hydric Soil Indicators

	Histosol	X	Gleyed or Low-Chroma Colors
	Histic Epipedon		Concretions/Soft Masses
	Sulfidic Odor		Hydric Criteria Met
	Reducing Conditions		Other

Remarks:

past 8 inches was rock

HYDROLOGY

Primary Water Source(s):

	Groundwater Discharge		Overbank Flooding
	Perched Groundwater	X	Precipitation
X	Other Runoff		

Wetland Hydrology Indicators:

	Saturated (<12")		Inundated
X	Distinct Drainage Patterns		FAC-Neutral Test
X	Water Marks/Moss Lichen Lines		Other
X	Oxidized Rhizospheres		

WETLAND DETERMINATION

Hydrophytic vegetation present?	X	Yes		No
Wetland hydrology present?	X	Yes		No
Hydric soils present?	X	Yes		No

Remarks:

FUNCTIONS AND VALUE ASSESSMENT

Function/Value:		Rating							
1	Surface Water Storage		H				L	X	N/A
2	Ground Water Discharge to Streams		H		M	X	L		N/A
3	Carbon/Nutrient Export		H		M	X	L		N/A
4	Provide Wildlife Habitat		H		M	X	L		N/A
5	Support WetlandPlants		H		M	X	L		N/A
6	Cultural Value		Yes			X	No		
7	Research/Scientific		Yes			X	No		
8	Economic Value		Yes			X	No		
9	Exotic Present		Yes			X	No		

Remarks:

pic 68-69

Little River, AL
WETLAND DETERMINATION

Invetigator(s):	Ken Morgan	Date:	7-24	2007
Site ID:	LIRI 51	Land Use:	Forested	
UTM: easting	16S 629346	Approximate Size:	0.19 acres	
northing	3810574			
Corwardin Class:	PFO1A	HGM Class:	Slope	

VEGETATION

	Dominant Plant Species	Stratum	Indicator
1	Athyrium filix-femina	Ground	FAC
2	Osmunda cinnamomea	Ground	FACW
3	Acer rubrum	Tree	FAC
4	Liriodendron tulipifera	Tree/Shrub	FAC
5			
6			
7			

Percent of Dominant Species that are OBL, FACW, or FAC? 100%

	Other Plant Species	Stratum	Indicator
1	Ilex opaca	Shrub	FAC-
2	Liquidambar styraciflua	Shrub	FAC
3			
4			
5			
6			

SOILS

Profile Description

Depth (inches)			Matrix Color (Munsell Color)		Mottle Color (Munsell Color)		Mottle Abundance/Contrast
0	to	4	10YR	4/2	10YR	6/8	25%
4	to	9	10YR	5/1	10YR	6/6	20%
9	to	12	10YR	5/1			
	to						
	to						
	to						
	to						

Hydric Soil Indicators

	Histosol	X	Gleyed or Low-Chroma Colors
	Histic Epipedon	X	Concretions/Soft Masses
	Sulfidic Odor		Hydric Criteria Met
	Reducing Conditions		Other

Remarks:

HYDROLOGY

Primary Water Source(s):

	Groundwater Discharge		Overbank Flooding
	Perched Groundwater	X	Precipitation
X	Other Runoff		

Wetland Hydrology Indicators:

	Saturated (<12")		Inundated
X	Distinct Drainage Patterns		FAC-Neutral Test
	Water Marks/Moss Lichen Lines		Other
X	Oxidized Rhizospheres		

WETLAND DETERMINATION

Hydrophytic vegetation present?	X	Yes		No
Wetland hydrology present?	X	Yes		No
Hydric soils present?	X	Yes		No

Remarks:

FUNCTIONS AND VALUE ASSESSMENT

Function/Value:		Rating							
1	Surface Water Storage		H			X	L		N/A
2	Ground Water Discharge to Streams		H		M	X	L		N/A
3	Carbon/Nutrient Export		H		M	X	L		N/A
4	Provide Wildlife Habitat		H	X	M		L		N/A
5	Support WetlandPlants		H		M	X	L		N/A
6	Cultural Value		Yes			X	No		
7	Research/Scientific	X	Yes				No	Herps, larger than average size	
8	Economic Value		Yes			X	No		
9	Exotic Present		Yes			X	No		

Remarks:

pic 40-50

12:07 PM

Little River, AL
WETLAND DETERMINATION

Invetigator(s):	Ken Morgan	Date:	7-26	2007
Site ID:	LIRI 52	Land Use:	Forested	
UTM: easting	16S 629005	Approximate Size:	0.17 acres	
northing	3810893			
Corwardin Class:	PFO1A	HGM Class:	Slope	

VEGETATION

	Dominant Plant Species	Stratum	Indicator
1	Osmunda cinnamomea	Ground	FACW
2	Chasmanthium laxum	Ground	FAC
3	Acer rubrum	Tree	FAC
4	Quercus alba	Tree	FACU
5			
6			
7			

Percent of Dominant Species that are OBL, FACW, or FAC? 75%

	Other Plant Species	Stratum	Indicator
1	Osmunda cinnamomea	Ground	FACW
2			
3			
4			
5			
6			

SOILS

Profile Description

Depth (inches)			Matrix Color (Munsell Color)		Mottle Color (Munsell Color)		Mottle Abundance/Contrast
0	to	3	10YR	4/4			
3	to	7	10YR	4/2	10YR	5/6	10%
7	to	12	10YR	4/2	10YR		
	to						
	to						
	to						
	to						

Hydric Soil Indicators

	Histosol	X	Gleyed or Low-Chroma Colors
	Histic Epipedon	X	Concretions/Soft Masses
	Sulfidic Odor		Hydric Criteria Met
	Reducing Conditions		Other

Remarks:

HYDROLOGY

Primary Water Source(s):

	Groundwater Discharge		Overbank Flooding
	Perched Groundwater	X	Precipitation
X	Other Runoff		

Wetland Hydrology Indicators:

	Saturated (<12")		Inundated
X	Distinct Drainage Patterns		FAC-Neutral Test
	Water Marks/Moss Lichen Lines		Other
X	Oxidized Rhizospheres		

WETLAND DETERMINATION

Hydrophytic vegetation present?	X	Yes		No
Wetland hydrology present?	X	Yes		No
Hydric soils present?	X	Yes		No

Remarks:

FUNCTIONS AND VALUE ASSESSMENT

Function/Value:		Rating							
1	Surface Water Storage		H		M	X	L		N/A
2	Ground Water Discharge to Streams	X	H		M		L		N/A
3	Carbon/Nutrient Export	X	H		M		L		N/A
4	Provide Wildlife Habitat		H		M	X	L		N/A
5	Support WetlandPlants		H		M	X	L		N/A
6	Cultural Value		Yes			X	No		
7	Research/Scientific	X	Yes				No	Larger than average size	
8	Economic Value		Yes			X	No		
9	Exotic Present		Yes			X	No		

Remarks:

pic 58-59 11:32am

Little River, AL
WETLAND DETERMINATION

Invetigator(s):	Ken Morgan	Date:	7-26	2007
Site ID:	LIRI 53	Land Use:	Forested	
UTM: northing	16S 629667	Approximate Size:	0.42 acres	
easting	3811318			
Corwardin Class:	PFO1A	HGM Class:	Slope	

VEGETATION

	Dominant Plant Species	Stratum	Indicator
1	Athyrium filix-femina	Ground	FAC
2	Osmunda cinnamomea	Ground	FACW
3	Acer rubrum	Tree	FAC
4	Panicum spp.	Ground	FAC
5	Smilax spp.	Vine	FAC
6			
7			

Percent of Dominant Species that are OBL, FACW, or FAC? 80%

	Other Plant Species	Stratum	Indicator
1	Vitis spp.	Vine	FAC
2	Nyssa sylvatica	Tree/Shrub	FAC
3	Quercus alba	Tree	FACU
4			
5			
6			

SOILS

Profile Description

Depth (inches)			Matrix Color (Munsell Color)		Mottle Color (Munsell Color)		Mottle Abundance/Contrast
0	to	4	10YR	4/2	10YR	5/6	5%
4	to	8	10YR	5/2			
8	to	12	10YR	5/6			
	to						
	to						
	to						
	to						

Hydric Soil Indicators

	Histosol	X	Gleyed or Low-Chroma Colors
	Histic Epipedon	X	Concretions/Soft Masses
	Sulfidic Odor		Hydric Criteria Met
	Reducing Conditions		Other

Remarks:

HYDROLOGY

Primary Water Source(s):

	Groundwater Discharge		Overbank Flooding
	Perched Groundwater	X	Precipitation
X	Other Runoff		

Wetland Hydrology Indicators:

	Saturated (<12")		Inundated
X	Distinct Drainage Patterns		FAC-Neutral Test
X	Water Marks/Moss Lichen Lines		Other
X	Oxidized Rhizospheres		

WETLAND DETERMINATION

Hydrophytic vegetation present?	X	Yes		No
Wetland hydrology present?	X	Yes		No
Hydric soils present?	X	Yes		No

Remarks:

FUNCTIONS AND VALUE ASSESSMENT

Function/Value:		Rating							
1	Surface Water Storage		H		M	X	L		N/A
2	Ground Water Discharge to Streams	X	H		M		L		N/A
3	Carbon/Nutrient Export	X	H		M		L		N/A
4	Provide Wildlife Habitat		H		M	X	L		N/A
5	Support WetlandPlants		H		M	X	L		N/A
6	Cultural Value		Yes			X	No		
7	Research/Scientific	X	Yes				No	Larger than average size	
8	Economic Value		Yes			X	No		
9	Exotic Present		Yes			X	No		

Remarks:

pic 58-59 11:32

Little River, AL
WETLAND DETERMINATION

Invetigator(s):	Ken Morgan/ Dan Twyman	Date:	7-26	2007
Site ID:	LIRI 54	Land Use:	Forested	
UTM: easting	16S 629991	Approximate Size:	0.06 acres	
northing	3811261			
Corwardin Class:	PFO1A	HGM Class:	Slope	

VEGETATION

	Dominant Plant Species	Stratum	Indicator
1	Osmunda cinnamomea	Ground	FACW
2	Vitis spp.	Vine	FAC
3	Acer rubrum	Tree	FAC
4	Liriodendron tulipifera	Tree	FAC
5			
6			
7			

Percent of Dominant Species that are OBL, FACW, or FAC? 100%

	Other Plant Species	Stratum	Indicator
1	Vaccinium spp.	Shrub	Unknown
2			
3			
4			
5			
6			

SOILS

Profile Description

Depth (inches)			Matrix Color (Munsell Color)		Mottle Color (Munsell Color)		Mottle Abundance/Contrast
0	to	4	10YR	5/1	10YR	5/6	5%
4	to	12	10YR	7/4	10YR	5/6	10%
	to						
	to						
	to						
	to						
	to						

Hydric Soil Indicators

	Histosol	X	Gleyed or Low-Chroma Colors
	Histic Epipedon		Concretions/Soft Masses
	Sulfidic Odor		Hydric Criteria Met
	Reducing Conditions		Other

Remarks:

HYDROLOGY

Primary Water Source(s):

	Groundwater Discharge		Overbank Flooding
	Perched Groundwater	X	Precipitation
X	Other Runoff		

Wetland Hydrology Indicators:

	Saturated (<12")		Inundated
	Distinct Drainage Patterns		FAC-Neutral Test
	Water Marks/Moss Lichen Lines		Other
X	Oxidized Rhizospheres		

WETLAND DETERMINATION

Hydrophytic vegetation present?	X	Yes		No
Wetland hydrology present?	X	Yes		No
Hydric soils present?	X	Yes		No

Remarks:

FUNCTIONS AND VALUE ASSESSMENT

Function/Value:		Rating							
1	Surface Water Storage		H				L	X	N/A
2	Ground Water Discharge to Streams		H		M		L	X	N/A
3	Carbon/Nutrient Export		H		M		L	X	N/A
4	Provide Wildlife Habitat		H		M	X	L		N/A
5	Support WetlandPlants		H		M	X	L		N/A
6	Cultural Value		Yes			X	No		
7	Research/Scientific		Yes			X	No		
8	Economic Value		Yes			X	No		
9	Exotic Present		Yes			X	No		

Remarks:

pic 3:30

Little River, AL
WETLAND DETERMINATION

Invetigator(s):	Ken Morgan	Date:	7-27	2007
Site ID:	LIRI 55	Land Use:	Forested	
UTM: easting	16S 630336	Approximate Size:	0.04 acres	
northing	3811966			
Corwardin Class:	PFO1A	HGM Class:	Slope	

VEGETATION

	Dominant Plant Species	Stratum	Indicator
1	Athyrium filix-femina	Ground	FAC
2	Osmunda cinnamomea	Ground	FAC
3	Acer rubrum	Tree	FAC
4	Panicum spp.	Ground	FAC
5			
6			
7			

Percent of Dominant Species that are OBL, FACW, or FAC? 100%

	Other Plant Species	Stratum	Indicator
1	Osmunda cinnamomea	Ground	FACW
2	Chasmanthium sessiliflorum	Ground	FAC
3			
4			
5			
6			

SOILS

Profile Description

Depth (inches)			Matrix Color (Munsell Color)		Mottle Color (Munsell Color)		Mottle Abundance/Contrast
0	to	3	10YR	6/6			
3	to	9	10YR	6/2			
9	to	12	10YR	5/2	10YR	7/6	1%
	to						
	to						
	to						
	to						

Hydric Soil Indicators

	Histosol	X	Gleyed or Low-Chroma Colors
	Histic Epipedon		Concretions/Soft Masses
	Sulfidic Odor		Hydric Criteria Met
	Reducing Conditions		Other

Remarks:

HYDROLOGY

Primary Water Source(s):

	Groundwater Discharge		Overbank Flooding
	Perched Groundwater	X	Precipitation
X	Other Runoff		

Wetland Hydrology Indicators:

	Saturated (<12")		Inundated
	Distinct Drainage Patterns		FAC-Neutral Test
X	Water Marks/Moss Lichen Lines		Other
X	Oxidized Rhizospheres		

WETLAND DETERMINATION

Hydrophytic vegetation present?	X	Yes		No
Wetland hydrology present?	X	Yes		No
Hydric soils present?	X	Yes		No

Remarks:

FUNCTIONS AND VALUE ASSESSMENT

Function/Value:		Rating							
1	Surface Water Storage		H				L	X	N/A
2	Ground Water Discharge to Streams		H		M		L	X	N/A
3	Carbon/Nutrient Export		H		M	X	L		N/A
4	Provide Wildlife Habitat		H		M	X	L		N/A
5	Support WetlandPlants		H	X	M		L		N/A
6	Cultural Value		Yes			X	No		
7	Research/Scientific		Yes			X	No		
8	Economic Value		Yes			X	No		
9	Exotic Present		Yes			X	No		

Remarks:

pic 11:41

Little River, AL
WETLAND DETERMINATION

Invetigator(s):	Ken Morgan	Date:	7-27	2007
Site ID:	LIRI 56	Land Use:	Forested	
UTM: easting	16S 630353	Approximate Size:	0.07 acres	
northing	3812143			
Corwardin Class:	PFO1A	HGM Class:	Slope	

VEGETATION

	Dominant Plant Species	Stratum	Indicator
1	Athyrium filix-femina	Ground	FAC
2	Alnus serrulata	Shrub	FACW
3	Acer rubrum	Tree	FAC
4	Osmunda cinnamomea	Ground	FACW
5			
6			
7			

Percent of Dominant Species that are OBL, FACW, or FAC? 100%

	Other Plant Species	Stratum	Indicator
1	Smilax spp.	Vine	FAC
2	Liriodendron tulipifera	Tree	FAC
3			
4			
5			
6			

SOILS

Profile Description

Depth (inches)			Matrix Color (Munsell Color)		Mottle Color (Munsell Color)		Mottle Abundance/Contrast
0	to	5	10YR	6/2	10YR	6/6	1%
5	to	12	10YR	6/4			
	to						
	to						
	to						
	to						
	to						

Hydric Soil Indicators

	Histosol	X	Gleyed or Low-Chroma Colors
	Histic Epipedon		Concretions/Soft Masses
	Sulfidic Odor		Hydric Criteria Met
	Reducing Conditions		Other

Remarks:

HYDROLOGY

Primary Water Source(s):

	Groundwater Discharge		Overbank Flooding
	Perched Groundwater	X	Precipitation
X	Other Runoff		

Wetland Hydrology Indicators:

	Saturated (<12")		Inundated
X	Distinct Drainage Patterns		FAC-Neutral Test
X	Water Marks/Moss Lichen Lines		Other
X	Oxidized Rhizospheres		

WETLAND DETERMINATION

Hydrophytic vegetation present?	X	Yes		No
Wetland hydrology present?	X	Yes		No
Hydric soils present?	X	Yes		No

Remarks:

FUNCTIONS AND VALUE ASSESSMENT

Function/Value:		Rating							
1	Surface Water Storage		H			X	L		N/A
2	Ground Water Discharge to Streams		H		M		L	X	N/A
3	Carbon/Nutrient Export		H		M	X	L		N/A
4	Provide Wildlife Habitat		H		M	X	L		N/A
5	Support WetlandPlants		H	X	M		L		N/A
6	Cultural Value		Yes			X	No		
7	Research/Scientific		Yes			X	No		
8	Economic Value		Yes			X	No		
9	Exotic Present		Yes			X	No		

Remarks:

pic 8-10

Little River, AL
WETLAND DETERMINATION

Invetigator(s):	Dan Twyman	Date:	7-31	2007
Site ID:	LIRI 57	Land Use:	Forested	
UTM: easting	16S 627616	Approximate Size:	1.69 acres	
northing	3810905			
Corwardin Class:	PFO1C	HGM Class:	Slope	

VEGETATION

	Dominant Plant Species	Stratum	Indicator
1	Liquidambar styraciflua	Ground	FAC
2	Acer drummondii	Tree/Shrub	FACW
3	Agrostis stolinifera	Ground	FACW
4	Osmunda cinnamomea	Ground	FACW
5			
6			
7			

Percent of Dominant Species that are OBL, FACW, or FAC? 100%

	Other Plant Species	Stratum	Indicator
1	Osmunda cinnamomea	Ground	FACW
2	Chasmanthium sessiliflorum	Ground	FAC
3			
4			
5			
6			

SOILS

Profile Description

Depth (inches)			Matrix Color (Munsell Color)		Mottle Color (Munsell Color)		Mottle Abundance/Contrast
0	to	2	10YR	3/1			
2	to	6	10YR	5/1	10YR	6/6	15%
6	to	12	10YR	7/1	10YR	6/6	25%
	to						
	to						
	to						
	to						

Hydric Soil Indicators

	Histosol	X	Gleyed or Low-Chroma Colors
	Histic Epipedon	X	Concretions/Soft Masses
	Sulfidic Odor		Hydric Criteria Met
	Reducing Conditions		Other

Remarks:

HYDROLOGY

Primary Water Source(s):

X	Groundwater Discharge		Overbank Flooding
X	Perched Groundwater	X	Precipitation
X	Other Runoff		

Wetland Hydrology Indicators:

X	Saturated (<12")		Inundated
X	Distinct Drainage Patterns		FAC-Neutral Test
X	Water Marks/Moss Lichen Lines		Other
X	Oxidized Rhizospheres		

WETLAND DETERMINATION

Hydrophytic vegetation present?	X	Yes		No
Wetland hydrology present?	X	Yes		No
Hydric soils present?	X	Yes		No

Remarks:

FUNCTIONS AND VALUE ASSESSMENT

	Function/Value:	Rating								
1	Surface Water Storage	X	H					L		N/A
2	Ground Water Discharge to Streams		H		M		X	L		N/A
3	Carbon/Nutrient Export		H		M		X	L		N/A
4	Provide Wildlife Habitat	X	H		M			L		N/A
5	Support WetlandPlants	X	H		M			L		N/A
6	Cultural Value		Yes				X	No	Larger than average size, herps	
7	Research/Scientific	X	Yes					No		
8	Economic Value		Yes				X	No		
9	Exotic Present	X	Yes					No	Japan Grass	

Remarks:

pic 81-82

Little River, AL
WETLAND DETERMINATION

Invetigator(s):	Dan Twyman	Date:	7-31	2007
Site ID:	LIRI 58	Land Use:	Forested	
UTM: easting	16S 627458	Approximate Size:	0.02 acres	
northing	3810986			
Corwardin Class:	PFO1A	HGM Class:	Depression	

VEGETATION

	Dominant Plant Species	Stratum	Indicator
1	Nyssa sylvatica	Tree	FAC
2	Carex spp.	Ground	Unknown
3	Acer rubrum	Tree	FAC
4	Osmunda cinnamomea	Tree	FACW
5			
6			
7			

Percent of Dominant Species that are OBL, FACW, or FAC? 75%

	Other Plant Species	Stratum	Indicator
1	Calycanthus spp.	Shrub	Unknown
2	Athyrium filix-femina	Ground	FAC
3	Urtica diodica		
4			
5			
6			

SOILS

Profile Description

Depth (inches)			Matrix Color (Munsell Color)		Mottle Color (Munsell Color)		Mottle Abundance/Contrast
0	to	4	10YR	4/1			
4	to	6	10YR	5/2	5YR	5/6	10%
6	to	12	10YR	6/1	10YR	5/6	20%
	to						
	to						
	to						
	to						

Hydric Soil Indicators

	Histosol	X	Gleyed or Low-Chroma Colors
	Histic Epipedon		Concretions/Soft Masses
	Sulfidic Odor		Hydric Criteria Met
	Reducing Conditions		Other

Remarks:

HYDROLOGY

Primary Water Source(s):

	Groundwater Discharge		Overbank Flooding
	Perched Groundwater		Precipitation
X	Other Runoff		

Wetland Hydrology Indicators:

	Saturated (<12")		Inundated
X	Distinct Drainage Patterns		FAC-Neutral Test
X	Water Marks/Moss Lichen Lines		Other
X	Oxidized Rhizospheres		

WETLAND DETERMINATION

Hydrophytic vegetation present?	X	Yes		No
Wetland hydrology present?	X	Yes		No
Hydric soils present?	X	Yes		No

Remarks:

FUNCTIONS AND VALUE ASSESSMENT

Function/Value:		Rating							
1	Surface Water Storage	X	H						N/A
2	Ground Water Discharge to Streams		H		M	X	L		N/A
3	Carbon/Nutrient Export		H		M	X	L		N/A
4	Provide Wildlife Habitat		H	X	M		L		N/A
5	Support WetlandPlants		H		M	X	L		N/A
6	Cultural Value		Yes			X	No		
7	Research/Scientific		Yes			X	No		
8	Economic Value		Yes			X	No		
9	Exotic Present		Yes			X	No		

Remarks:

Little River, AL
WETLAND DETERMINATION

Invetigator(s):	Dan Twyman	Date:	8-21	2007
Site ID:	LIRI 59	Land Use:	Forested	
UTM: easting	16S 628062	Approximate Size:	0.04 acres	
northing	3810942			
Corwardin Class:	PFO1C	HGM Class:	Slope	

VEGETATION

	Dominant Plant Species	Stratum	Indicator
1	Athyrium filix-femina	Ground	FAC
2	Smilax rotundifolia	Vine	FAC
3	Acer rubrum	Tree	FAC
4	Osmunda cinnamomea	Tree	FAC
5			
6			
7			

Percent of Dominant Species that are OBL, FACW, or FAC? 100%

	Other Plant Species	Stratum	Indicator
1	Osmunda regalis	Ground	OBL
2	Chasmanthium latifolium	Ground	FAC-
3			
4			
5			
6			

SOILS

Profile Description

Depth (inches)			Matrix Color (Munsell Color)		Mottle Color (Munsell Color)		Mottle Abundance/Contrast
0	to	6	10YR	5/2			
6	to	12	10YR	6/2	10YR	6/6	15%
	to						
	to						
	to						
	to						
	to						

Hydric Soil Indicators

	Histosol	X	Gleyed or Low-Chroma Colors
	Histic Epipedon		Concretions/Soft Masses
	Sulfidic Odor		Hydric Criteria Met
	Reducing Conditions		Other

Remarks:

HYDROLOGY

Primary Water Source(s):

	Groundwater Discharge		Overbank Flooding
	Perched Groundwater	X	Precipitation
X	Other Runoff		

Wetland Hydrology Indicators:

	Saturated (<12")		Inundated
	Distinct Drainage Patterns		FAC-Neutral Test
X	Water Marks/Moss Lichen Lines		Other
X	Oxidized Rhizospheres		

WETLAND DETERMINATION

Hydrophytic vegetation present?	X	Yes		No
Wetland hydrology present?	X	Yes		No
Hydric soils present?	X	Yes		No

Remarks:

FUNCTIONS AND VALUE ASSESSMENT

Function/Value:		Rating							
1	Surface Water Storage		H				X	L		N/A
2	Ground Water Discharge to Streams		H	X	M			L		N/A
3	Carbon/Nutrient Export		H		M		X	L		N/A
4	Provide Wildlife Habitat		H		M		X	L		N/A
5	Support WetlandPlants		H		M		X	L		N/A
6	Cultural Value		Yes				X	No		
7	Research/Scientific		Yes				X	No		
8	Economic Value		Yes				X	No		
9	Exotic Present		Yes				X	No		

Remarks:

pic 83-85

Little River, AL
WETLAND DETERMINATION

Invetigator(s):	Dan Twyman	Date:	8-22	2007
Site ID:	LIRI 60	Land Use:	Forested	
UTM: easting	16S 630278	Approximate Size:	0.18 acres	
northing	3813073			
Corwardin Class:	PFO1A	HGM Class:	Slope	

VEGETATION

	Dominant Plant Species	Stratum	Indicator
1	Athyrium filix-femina	Ground	FAC
2	Liquidambar styraciflua	Tree	FAC
3	Acer rubrum	Tree	FAC
4	Osmunda cinnamomea	Tree	FAC
5			
6			
7			

Percent of Dominant Species that are OBL, FACW, or FAC? 100%

	Other Plant Species	Stratum	Indicator
1	Osmunda regalisa	Ground	OBL
2	Arundinaria gigantea	Ground	FACW
3			
4			
5			
6			

SOILS

Profile Description

Depth (inches)			Matrix Color (Munsell Color)		Mottle Color (Munsell Color)		Mottle Abundance/Contrast
0	to	6	10YR	5/3			
6	to	12	10YR	5/2			
	to						
	to						
	to						
	to						
	to						

Hydric Soil Indicators

	Histosol	X	Gleyed or Low-Chroma Colors
	Histic Epipedon		Concretions/Soft Masses
	Sulfidic Odor		Hydric Criteria Met
	Reducing Conditions		Other

Remarks:

HYDROLOGY

Primary Water Source(s):

X	Groundwater Discharge		Overbank Flooding
	Perched Groundwater	X	Precipitation
X	Other Runoff		

Wetland Hydrology Indicators:

X	Saturated (<12")		Inundated
X	Distinct Drainage Patterns		FAC-Neutral Test
	Water Marks/Moss Lichen Lines		Other
	Oxidized Rhizospheres		

WETLAND DETERMINATION

Hydrophytic vegetation present?	X	Yes		No
Wetland hydrology present?	X	Yes		No
Hydric soils present?	X	Yes		No

Remarks:

FUNCTIONS AND VALUE ASSESSMENT

Function/Value:		Rating							
1	Surface Water Storage		H				X	L		N/A
2	Ground Water Discharge to Streams		H		M		X	L		N/A
3	Carbon/Nutrient Export		H		M		X	L		N/A
4	Provide Wildlife Habitat		H	X	M			L		N/A
5	Support WetlandPlants		H	X	M			L		N/A
6	Cultural Value		Yes				X	No		
7	Research/Scientific		Yes				X	No		
8	Economic Value		Yes				X	No		
9	Exotic Present		Yes				X	No		

Remarks:

pic 96-97 5:54PM

Little River, AL
WETLAND DETERMINATION

Invetigator(s):	Dan Twyman	Date:	8-22	2007
Site ID:	LIRI 61	Land Use:	Forested	
UTM: easting	16S 628629	Approximate Size:	0.02 acres	
northing	3813782			
Corwardin Class:	PFO1A	HGM Class:	Slope	

VEGETATION

	Dominant Plant Species	Stratum	Indicator
1	Athyrium filix-femina	Ground	FAC
2	Liquidambar styraciflua	Tree	FAC
3	Acer rubrum	Tree	FAC
4	Alnus serrulata	Shrub	FAC
5	Arundinaria gigantea	Ground	FACW
6			
7			

Percent of Dominant Species that are OBL, FACW, or FAC? 100%

	Other Plant Species	Stratum	Indicator
1	Carex intumescens	Ground	FACW
2			
3			
4			
5			
6			

SOILS

Profile Description

Depth (inches)			Matrix Color (Munsell Color)		Mottle Color (Munsell Color)		Mottle Abundance/Contrast
0	to	6	10YR	4/2			
6	to	12	10YR	4/2	10YR	5/6	10%
	to						
	to						
	to						
	to						
	to						

Hydric Soil Indicators

	Histosol	X	Gleyed or Low-Chroma Colors
	Histic Epipedon		Concretions/Soft Masses
	Sulfidic Odor		Hydric Criteria Met
	Reducing Conditions		Other

Remarks:

HYDROLOGY

Primary Water Source(s):

	Groundwater Discharge		Overbank Flooding
	Perched Groundwater	X	Precipitation
X	Other Runoff		

Wetland Hydrology Indicators:

	Saturated (<12")		Inundated
X	Distinct Drainage Patterns		FAC-Neutral Test
	Water Marks/Moss Lichen Lines		Other
X	Oxidized Rhizospheres		

WETLAND DETERMINATION

Hydrophytic vegetation present?	X	Yes		No
Wetland hydrology present?	X	Yes		No
Hydric soils present?	X	Yes		No

Remarks:

FUNCTIONS AND VALUE ASSESSMENT

Function/Value:		Rating							
1	Surface Water Storage		H				X	L		N/A
2	Ground Water Discharge to Streams		H		M		X	L		N/A
3	Carbon/Nutrient Export		H		M		X	L		N/A
4	Provide Wildlife Habitat		H	X	M			L		N/A
5	Support WetlandPlants		H		M		X	L		N/A
6	Cultural Value		Yes				X	No		
7	Research/Scientific		Yes				X	No		
8	Economic Value		Yes				X	No		
9	Exotic Present		Yes				X	No		

Remarks:

pic 96-97

Little River, AL
WETLAND DETERMINATION

Invetigator(s):	Dan Twyman	Date:	8-22	2007
Site ID:	LIRI 62	Land Use:	Forested	
UTM: easting	16S 629433	Approximate Size:	0.04 acres	
northing	3813389			
Corwardin Class:	PFO1A	HGM Class:	Slope	

VEGETATION

	Dominant Plant Species	Stratum	Indicator
1	Athyrium filix-femina	Ground	FAC
2	Calycanthus spp.	Shrub	Unknown
3	Acer rubrum	Tree	FAC
4	Osmunda cinnamomea	Tree	FAC
5			
6			
7			

Percent of Dominant Species that are OBL, FACW, or FAC? 75%

	Other Plant Species	Stratum	Indicator
1	Osmunda regalis	Ground	OBL
2	Carex spp.	Ground	Unknown
3	Arundinaria gigantea	Ground	FACW
4			
5			
6			

SOILS

Profile Description

Depth (inches)			Matrix Color (Munsell Color)		Mottle Color (Munsell Color)		Mottle Abundance/Contrast
0	to	6	10YR	3/1			
6	to	9	10YR	4/1	10YR	5/6	10%
9	to	12	10YR	5/1	10YR	4/6	20%
	to						
	to						
	to						
	to						

Hydric Soil Indicators

	Histosol	X	Gleyed or Low-Chroma Colors
	Histic Epipedon	X	Concretions/Soft Masses
	Sulfidic Odor		Hydric Criteria Met
	Reducing Conditions		Other

Remarks:

HYDROLOGY

Primary Water Source(s):

X	Groundwater Discharge		Overbank Flooding
	Perched Groundwater		Precipitation
X	Other Runoff		

Wetland Hydrology Indicators:

	Saturated (<12")		Inundated
	Distinct Drainage Patterns		FAC-Neutral Test
X	Water Marks/Moss Lichen Lines		Other
X	Oxidized Rhizospheres		

WETLAND DETERMINATION

Hydrophytic vegetation present?	X	Yes		No
Wetland hydrology present?	X	Yes		No
Hydric soils present?	X	Yes		No

Remarks:

FUNCTIONS AND VALUE ASSESSMENT

Function/Value:		Rating							
1	Surface Water Storage		H				L	X	N/A
2	Ground Water Discharge to Streams		H		M		L	X	N/A
3	Carbon/Nutrient Export		H		M		L	X	N/A
4	Provide Wildlife Habitat		H		M	X	L		N/A
5	Support WetlandPlants		H		M	X	L		N/A
6	Cultural Value		Yes			X	No		
7	Research/Scientific		Yes			X	No		
8	Economic Value		Yes			X	No		
9	Exotic Present		Yes			X	No		

Remarks:

pic 94-95

Little River, AL
WETLAND DETERMINATION

Invetigator(s):	Dan Twyman	Date:	8-22	2007
Site ID:	LIRI 63	Land Use:	Forested	
UTM: easting	16S 629850	Approximate Size:	0.02 acres	
northing	3813097			
Corwardin Class:	PFO1A	HGM Class:	Slope	

VEGETATION

	Dominant Plant Species	Stratum	Indicator
1	Athyrium filix-femina	Ground	FAC
2	Chasmanthium sessiliflorum	Ground	FAC
3	Liriodendron tulipfera	Tree	FAC
4	Vaccinium sp.	Shurb	Unknown
5			
6			
7			

Percent of Dominant Species that are OBL, FACW, or FAC? 75%

	Other Plant Species	Stratum	Indicator
1	Osmunda cinnamomea	Ground	FACW
2	Acer rubrum	Tree/Shrub	FAC
3	Carex intumescens	Ground	FACW
4			
5			
6			

SOILS

Profile Description

Depth (inches)			Matrix Color (Munsell Color)		Mottle Color (Munsell Color)		Mottle Abundance/Contrast
0	to	3	7.5YR	5/6			
3	to	5	10YR	5/2			
5	to	8	10YR	5/2	10YR	6/6	10%
	to						
	to						
	to						
	to						

Hydric Soil Indicators

	Histosol	X	Gleyed or Low-Chroma Colors
	Histic Epipedon		Concretions/Soft Masses
	Sulfidic Odor		Hydric Criteria Met
	Reducing Conditions		Other

Remarks:

HYDROLOGY

Primary Water Source(s):

X	Groundwater Discharge		Overbank Flooding
	Perched Groundwater	X	Precipitation
X	Other Runoff		

Wetland Hydrology Indicators:

X	Saturated (<12")		Inundated
	Distinct Drainage Patterns		FAC-Neutral Test
	Water Marks/Moss Lichen Lines		Other
X	Oxidized Rhizospheres		

WETLAND DETERMINATION

Hydrophytic vegetation present?	X	Yes		No
Wetland hydrology present?	X	Yes		No
Hydric soils present?	X	Yes		No

Remarks:

FUNCTIONS AND VALUE ASSESSMENT

Function/Value:		Rating							
1	Surface Water Storage		H			X	L		N/A
2	Ground Water Discharge to Streams		H		M	X	L		N/A
3	Carbon/Nutrient Export		H		M	X	L		N/A
4	Provide Wildlife Habitat		H		M	X	L		N/A
5	Support WetlandPlants		H		M	X	L		N/A
6	Cultural Value		Yes			X	No		
7	Research/Scientific		Yes			X	No		
8	Economic Value		Yes			X	No		
9	Exotic Present		Yes			X	No		

Remarks:

pic 94-95

Little River, AL
WETLAND DETERMINATION

Invetigator(s):	Dan Twyman	Date:	8-23	2007
Site ID:	LIRI 64	Land Use:	Forested	
UTM: easting	16S 628927	Approximate Size:	0.04 acres	
northing	3813710			
Corwardin Class:	PFO1A	HGM Class:	Depression	

VEGETATION

	Dominant Plant Species	Stratum	Indicator
1	Chasmanthium laxum	Ground	FAC-
2	Liquidambar styraciflua	Tree	FAC
3	Acer rubrum	Tree	FAC
4	Xanthorhiza simplicissima	Ground	FACW-
5			
6			
7			

Percent of Dominant Species that are OBL, FACW, or FAC? 75%

	Other Plant Species	Stratum	Indicator
1	Carex comosa	Ground	FACW
2			
3			
4			
5			
6			

SOILS

Profile Description

Depth (inches)			Matrix Color (Munsell Color)		Mottle Color (Munsell Color)		Mottle Abundance/Contrast
0	to	4	10YR	4/2	10YR	5/6	10%
	to						
	to						
	to						
	to						
	to						
	to						

Hydric Soil Indicators

	Histosol	X	Gleyed or Low-Chroma Colors
	Histic Epipedon		Concretions/Soft Masses
	Sulfidic Odor		Hydric Criteria Met
	Reducing Conditions		Other

Remarks:

Rock present at 4 inches

HYDROLOGY

Primary Water Source(s):

	Groundwater Discharge		Overbank Flooding
	Perched Groundwater	X	Precipitation
X	Other Runoff		

Wetland Hydrology Indicators:

	Saturated (<12")		Inundated
	Distinct Drainage Patterns		FAC-Neutral Test
X	Water Marks/Moss Lichen Lines		Other
X	Oxidized Rhizospheres		

WETLAND DETERMINATION

Hydrophytic vegetation present?	X	Yes		No
Wetland hydrology present?	X	Yes		No
Hydric soils present?	X	Yes		No

Remarks:

FUNCTIONS AND VALUE ASSESSMENT

Function/Value:		Rating							
1	Surface Water Storage	X	H				L		N/A
2	Ground Water Discharge to Streams		H		M	X	L		N/A
3	Carbon/Nutrient Export		H		M	X	L		N/A
4	Provide Wildlife Habitat		H	X	M		L		N/A
5	Support WetlandPlants		H		M	X	L		N/A
6	Cultural Value		Yes			X	No		
7	Research/Scientific	X	Yes				No	Herpetological Research	
8	Economic Value		Yes			X	No		
9	Exotic Present		Yes			X	No		

Remarks:

Little River, AL
WETLAND DETERMINATION

Invetigator(s):	Ken Morgan	Date:	8-22	2007
Site ID:	LIRI 65	Land Use:	Forested	
UTM: easting	16S 629374	Approximate Size:	0.02 acres	
northing	3813150			
Corwardin Class:	PFO1A	HGM Class:	Slope	

VEGETATION

	Dominant Plant Species	Stratum	Indicator
1	Osmunda cinnamomea	Ground	FACW
2	Alnus serrulata	Shrub	FACW
3	Acer rubrum	Tree	FAC
4			
5			
6			
7			

Percent of Dominant Species that are OBL, FACW, or FAC? 100%

	Other Plant Species	Stratum	Indicator
1	Panicum spp.	Ground	Unknown
2	Athyrium filix-femina	Ground	FAC
3			
4			
5			
6			

SOILS

Profile Description

Depth (inches)			Matrix Color (Munsell Color)		Mottle Color (Munsell Color)		Mottle Abundance/Contrast
0	to	4	10YR	5/2			
	to						
	to						
	to						
	to						
	to						
	to						

Hydric Soil Indicators

	Histosol	X	Gleyed or Low-Chroma Colors
	Histic Epipedon		Concretions/Soft Masses
	Sulfidic Odor		Hydric Criteria Met
	Reducing Conditions		Other

Remarks:

at 4 inches was rock

HYDROLOGY

Primary Water Source(s):

	Groundwater Discharge		Overbank Flooding
X	Perched Groundwater	X	Precipitation
X	Other Runoff		

Wetland Hydrology Indicators:

	Saturated (<12")		Inundated
X	Distinct Drainage Patterns		FAC-Neutral Test
	Water Marks/Moss Lichen Lines		Other
X	Oxidized Rhizospheres		

WETLAND DETERMINATION

Hydrophytic vegetation present?	X	Yes		No
Wetland hydrology present?	X	Yes		No
Hydric soils present?	X	Yes		No

Remarks:

FUNCTIONS AND VALUE ASSESSMENT

Function/Value:		Rating							
1	Surface Water Storage		H					X	N/A
2	Ground Water Discharge to Streams		H	X	M		L		N/A
3	Carbon/Nutrient Export		H	X	M		L		N/A
4	Provide Wildlife Habitat		H		M	X	L		N/A
5	Support WetlandPlants		H	X	M		L		N/A
6	Cultural Value		Yes			X	No		
7	Research/Scientific		Yes			X	No		
8	Economic Value		Yes			X	No		
9	Exotic Present		Yes			X	No		

Remarks:

pic 11:24

Little River, AL
WETLAND DETERMINATION

Invetigator(s):	Ken Morgan	Date:	8-22	2007
Site ID:	LIRI 66	Land Use:	Forested	
UTM: easting	16S 629670	Approximate Size:	0.09 acres	
northing	3813510			
Corwardin Class:	PFO1A	HGM Class:	Slope	

VEGETATION

	Dominant Plant Species	Stratum	Indicator
1	Athyrium filix-femina	Ground	FAC
2	Sphagnum spp.	Ground	Unknown
3	Acer rubrum	Tree/Shrub	FAC
4	Chasmanthium sessiliflorum	Ground	FACW
5			
6			
7			

Percent of Dominant Species that are OBL, FACW, or FAC? 100%

	Other Plant Species	Stratum	Indicator
1	Alnus serrulata	Shrub	FACW
2	Vitis spp.	Vine	FAC
3	Smilax spp.	Vine	FAC
4			
5			
6			

SOILS

Profile Description

Depth (inches)			Matrix Color (Munsell Color)		Mottle Color (Munsell Color)		Mottle Abundance/Contrast
0	to	4	10YR	5/3	10YR	6/4	10%
4	to	9	10YR	4/2			
9	to	12	10YR	5/2			
	to						
	to						
	to						
	to						

Hydric Soil Indicators

	Histosol	X	Gleyed or Low-Chroma Colors
	Histic Epipedon		Concretions/Soft Masses
	Sulfidic Odor		Hydric Criteria Met
	Reducing Conditions		Other

Remarks:

HYDROLOGY

Primary Water Source(s):

	Groundwater Discharge		Overbank Flooding
X	Perched Groundwater	X	Precipitation
X	Other Runoff		

Wetland Hydrology Indicators:

	Saturated (<12")		Inundated
X	Distinct Drainage Patterns		FAC-Neutral Test
X	Water Marks/Moss Lichen Lines		Other
X	Oxidized Rhizospheres		

WETLAND DETERMINATION

Hydrophytic vegetation present?	X	Yes		No
Wetland hydrology present?	X	Yes		No
Hydric soils present?	X	Yes		No

Remarks:

FUNCTIONS AND VALUE ASSESSMENT

Function/Value:		Rating							
1	Surface Water Storage		H			X	L		N/A
2	Ground Water Discharge to Streams	X	H		M		L		N/A
3	Carbon/Nutrient Export	X	H		M		L		N/A
4	Provide Wildlife Habitat		H	X	M		L		N/A
5	Support WetlandPlants		H		M	X	L		N/A
6	Cultural Value		Yes			X	No		
7	Research/Scientific		Yes			X	No		
8	Economic Value		Yes			X	No		
9	Exotic Present		Yes			X	No		

Remarks:

pic 10:23

Little River, AL
WETLAND DETERMINATION

Invetigator(s):	Ken Morgan	Date:	8-24	2007
Site ID:	LIRI 67	Land Use:	Forested	
UTM: easting	16S 628199	Approximate Size:	0.01 acres	
northing	3814994			
Corwardin Class:	PFO1C	HGM Class:	Slope	

VEGETATION

	Dominant Plant Species	Stratum	Indicator
1	Lobelia cardinalis	Ground	FACW+
2	Nyssa sylvatica	Tree	FAC
3	Lonicera japonica	Vine	FAC-
4	Sphagnum spp.	Ground	Unknowwn
5			
6			
7			

Percent of Dominant Species that are OBL, FACW, or FAC? 50%

	Other Plant Species	Stratum	Indicator
1	Smilax obtusifolia	Vine	FAC
2	Panicum spp.	Ground	Unknown
3	Mentha spicata	Ground	FACW
4			
5			
6			

SOILS

Profile Description

Depth (inches)			Matrix Color (Munsell Color)		Mottle Color (Munsell Color)		Mottle Abundance/Contrast
0	to	4	10YR	4/2	10YR	6/6	10%
4	to	9	10YR	4/6			
9	to	12	10YR	5/6			
	to						
	to						
	to						
	to						

Hydric Soil Indicators

	Histosol	X	Gleyed or Low-Chroma Colors
	Histic Epipedon		Concretions/Soft Masses
	Sulfidic Odor		Hydric Criteria Met
	Reducing Conditions		Other

Remarks:

HYDROLOGY

Primary Water Source(s):

	Groundwater Discharge		Overbank Flooding
X	Perched Groundwater	X	Precipitation
X	Other Runoff		

Wetland Hydrology Indicators:

X	Saturated (<12")		Inundated
X	Distinct Drainage Patterns		FAC-Neutral Test
	Water Marks/Moss Lichen Lines		Other
X	Oxidized Rhizospheres		

WETLAND DETERMINATION

Hydrophytic vegetation present?	X	Yes		No
Wetland hydrology present?	X	Yes		No
Hydric soils present?	X	Yes		No

Remarks:

FUNCTIONS AND VALUE ASSESSMENT

Function/Value:		Rating							
1	Surface Water Storage	X	H				L		N/A
2	Ground Water Discharge to Streams		H		M	X	L		N/A
3	Carbon/Nutrient Export	X	H		M		L		N/A
4	Provide Wildlife Habitat	X	H		M		L		N/A
5	Support WetlandPlants		H	X	M		L		N/A
6	Cultural Value	X	Yes				No	adjacent to trail	
7	Research/Scientific	X	Yes				No	herpetological research	
8	Economic Value		Yes			X	No		
9	Exotic Present	X	Yes				No	japonese honeysuckle	

Remarks:

pic 8:30

Channel has been blocked with rock to create pool

Little River, AL
WETLAND DETERMINATION

Invetigator(s):	EW		Date:	6-17	2008
Site ID:	LIRI 68		Land Use:	Forested	
UTM: easting	626961		Approximate Size:	0.009	
northing	3806038				
Corwardin Class:	PFO1A		HGM Class:	depression	

VEGETATION

	Dominant Plant Species	Stratum	Indicator
1	Acer rubrum	Tree	FAC
2	Pinus tadea	Tree	FAC
3			
4			
5			
6			
7			

Percent of Dominant Species that are OBL, FACW, or FAC? 100%

	Other Plant Species	Stratum	Indicator
1			
2			
3			
4			
5			
6			

SOILS

Profile Description

Depth (inches)			Matrix Color (Munsell Color)		Mottle Color (Munsell Color)		Mottle Abundance/Contrast
0	to	12	10YR	2/1			
	to						
	to						
	to						
	to						
	to						
	to						

Hydric Soil Indicators

	Histosol	X	Gleyed or Low-Chroma Colors
	Histic Epipedon		Concretions/Soft Masses
	Sulfidic Odor		Hydric Criteria Met
	Reducing Conditions		Other

Remarks:

sandy very dark soils

HYDROLOGY

Primary Water Source(s):

X	Groundwater Discharge		Overbank Flooding
X	Perched Groundwater	X	Precipitation
	Other		

Wetland Hydrology Indicators:

X	Saturated (<12")		Inundated
	Distinct Drainage Patterns		FAC-Neutral Test
X	Water Marks/Moss Lichen Lines		Other
	Oxidized Rhizospheres		

WETLAND DETERMINATION

Hydrophytic vegetation present?	X	Yes		No
Wetland hydrology present?	X	Yes		No
Hydric soils present?	X	Yes		No

Remarks:

FUNCTIONS AND VALUE ASSESSMENT

Function/Value:		Rating							
1	Surface Water Storage		H				L	X	N/A
2	Ground Water Discharge to Streams		H		M		L	X	N/A
3	Carbon/Nutrient Export		H		M		L	X	N/A
4	Provide Wildlife Habitat		H		M	X	L		N/A
5	Support WetlandPlants		H		M	X	L		N/A
6	Cultural Value		Yes			x	No		
7	Research/Scientific		Yes			X	No		
8	Economic Value		Yes			X	No		
9	Exotic Present		Yes			X	No		

Remarks:

no pic

Little River, AL
WETLAND DETERMINATION

Invetigator(s):	EW		Date:	6-17	2008
Site ID:	LIRI 69		Land Use:	Forested floodplain	
UTM: easting	626867		Approximate Size:	0.103	
northing	3805694				
Corwardin Class:	PFO1A		HGM Class:	slope	

VEGETATION

	Dominant Plant Species	Stratum	Indicator
1	Acer rubrum	Tree	FAC
2	Pinus tadea	Tree	FAC
3	Panicum spp.	Ground	Uknown
4	Smilax rotundafolia	Vine	FAC
5			
6			
7			

Percent of Dominant Species that are OBL, FACW, or FAC? 75%

	Other Plant Species	Stratum	Indicator
1	Carex spp.	ground	OBL
2			
3			
4			
5			
6			

SOILS

Profile Description

Depth (inches)			Matrix Color (Munsell Color)		Mottle Color (Munsell Color)		Mottle Abundance/Contrast
0	to	4	10YR	2/1			
	to						
	to						
	to						
	to						
	to						
	to						

Hydric Soil Indicators

	Histosol	X	Gleyed or Low-Chroma Colors
	Histic Epipedon		Concretions/Soft Masses
	Sulfidic Odor		Hydric Criteria Met
	Reducing Conditions		Other

Remarks:

sandy soil very dark
rock at 4 inches

HYDROLOGY

Primary Water Source(s):

	Groundwater Discharge		Overbank Flooding
	Perched Groundwater		Precipitation
	Other		

Wetland Hydrology Indicators:

	Saturated (<12")		Inundated
	Distinct Drainage Patterns		FAC-Neutral Test
	Water Marks/Moss Lichen Lines		Other
	Oxidized Rhizospheres		

WETLAND DETERMINATION

Hydrophytic vegetation present?	X	Yes		No
Wetland hydrology present?	X	Yes		No
Hydric soils present?	X	Yes		No

Remarks:

FUNCTIONS AND VALUE ASSESSMENT

Function/Value:		Rating							
1	Surface Water Storage		H			X	L		N/A
2	Ground Water Discharge to Streams	X	H		M		L		N/A
3	Carbon/Nutrient Export	X	H		M		L		N/A
4	Provide Wildlife Habitat		H	X	M		L		N/A
5	Support WetlandPlants		H	X	M		L		N/A
7	Cultural Value		Yes			x	No		
6	Research/Scientific		Yes			X	No		
7	Economic Value		Yes			X	No		
8	Exotic Present		Yes			X	No		

Remarks:

next to channel
lots of moss

pic 52-53

Little River, AL
WETLAND DETERMINATION

Invetigator(s):	KR		Date:	6-17	2008
Site ID:	LIRI 70		Land Use:	Forest	
UTM: easting	627205		Approximate Size:	0.009	
northing	3806192				
Corwardin Class:	PFO1A		HGM Class:	Depression	

VEGETATION

	Dominant Plant Species	Stratum	Indicator
1	Acer rubrum	Tree	FAC
2	Acer rubrum	Shrub	FAC
3	Rubus spp.	Ground	Unknown
4	Carex intumescens	Ground	FACW
5			
6			
7			

Percent of Dominant Species that are OBL, FACW, or FAC? 66&%

	Other Plant Species	Stratum	Indicator
1			
2			
3			
4			
5			
6			

SOILS

Profile Description

Depth (inches)			Matrix Color (Munsell Color)		Mottle Color (Munsell Color)		Mottle Abundance/Contrast
0	to	3	10YR	4/3			
3	to	8	10YR	3/2	5YR	4/6	10%
8	to	12	10YR	4/2	5YR	4/6	10%
	to						
	to						
	to						
	to						

Hydric Soil Indicators

	Histosol	x	Gleyed or Low-Chroma Colors
	Histic Epipedon		Concretions/Soft Masses
	Sulfidic Odor	x	Hydric Criteria Met
	Reducing Conditions		Other

Remarks:

HYDROLOGY

Primary Water Source(s):

	Groundwater Discharge		Overbank Flooding
	Perched Groundwater	x	Precipitation
	Other		

Wetland Hydrology Indicators:

	Saturated (<12")		Inundated
	Distinct Drainage Patterns		FAC-Neutral Test
	Water Marks/Moss Lichen Lines		Other
	Oxidized Rhizospheres		

WETLAND DETERMINATION

Hydrophytic vegetation present?	x	Yes		No
Wetland hydrology present?	x	Yes		No
Hydric soils present?	x	Yes		No

Remarks:

FUNCTIONS AND VALUE ASSESSMENT

	Function/Value:	Rating							
1	Surface Water Storage	x	H				L		N/A
2	Ground Water Discharge to Streams		H		M		L	x	N/A
3	Carbon/Nutrient Export		H		M		L	x	N/A
4	Provide Wildlife Habitat		H		M	x	L		N/A
5	Support WetlandPlants		H		M	x	L		N/A
6	Cultural Value		Yes			x	No		
7	Research/Scientific		Yes			x	No		
8	Economic Value		Yes			x	No		
9	Exotic Present	x	Yes				No		Honeysuckle

Remarks:

Little River, AL
WETLAND DETERMINATION

Invetigator(s):	KR	Date:	6-17	2008
Site ID:	LIRI 71	Land Use:	Forest	
UTM: easting	627006	Approximate Size:	0.109	
northing	3806015			
Corwardin Class:	PFO1A	HGM Class:	Slope	

VEGETATION

	Dominant Plant Species	Stratum	Indicator
1	Acer rubrum	Tree	FAC
2	Acer rubrum	Shrub	FAC
3	Mitchella repens	Ground	FACU+
4	Sphagnum spp.	Ground	Unknown
5			
6			
7			

Percent of Dominant Species that are OBL, FACW, or FAC? 50%

	Other Plant Species	Stratum	Indicator
1			
2			
3			
4			
5			
6			

SOILS

Profile Description

Depth (inches)			Matrix Color (Munsell Color)		Mottle Color (Munsell Color)		Mottle Abundance/Contrast
0	to	12	10YR	2/2			
	to						
	to						
	to						
	to						
	to						
	to						

Hydric Soil Indicators

	Histosol	x	Gleyed or Low-Chroma Colors
	Histic Epipedon		Concretions/Soft Masses
	Sulfidic Odor	x	Hydric Criteria Met
	Reducing Conditions		Other

Remarks:

HYDROLOGY

Primary Water Source(s):

	Groundwater Discharge		Overbank Flooding
x	Perched Groundwater	x	Precipitation
	Other		

Wetland Hydrology Indicators:

	Saturated (<12")		Inundated
x	Distinct Drainage Patterns		FAC-Neutral Test
x	Water Marks/Moss Lichen Lines		Other
	Oxidized Rhizospheres		

WETLAND DETERMINATION

Hydrophytic vegetation present?	x	Yes		No
Wetland hydrology present?	x	Yes		No
Hydric soils present?	x	Yes		No

Remarks:

FUNCTIONS AND VALUE ASSESSMENT

	Function/Value:	Rating								
1	Surface Water Storage		H				x	L		N/A	
2	Ground Water Discharge to Streams		H		M			L	x	N/A	
3	Carbon/Nutrient Export		H		M		x	L		N/A	
4	Provide Wildlife Habitat		H	x	M		x	L		N/A	herps
5	Support WetlandPlants		H		M		x	L		N/A	
6	Cultural Value		Yes				x	No			
7	Research/Scientific		Yes				x	No			
8	Economic Value		Yes				x	No			
9	Exotic Present		Yes				x	No			Honeysuckle

Remarks:

Little River, AL
WETLAND DETERMINATION

Invetigator(s):	KR	Date:	6-17	2008
Site ID:	LIRI 72	Land Use:	Forest	
UTM: easting	627010	Approximate Size:	0.042	
northing	3805606			
Corwardin Class:	PFO1A	HGM Class:	Slope	

VEGETATION

	Dominant Plant Species	Stratum	Indicator
1	Acer rubrum	Tree	FAC
2	Acer rubrum	Shrub	FAC
3	Athyrium filix-femina	Ground	FAC
4			
5			
6			
7			

Percent of Dominant Species that are OBL, FACW, or FAC? 100%

	Other Plant Species	Stratum	Indicator
1	Arundinaria gigantea	Shrub	FACW
2	Carex spp.	Ground	Unknown
3	Osmunda cinnamomea	Ground	FACW+
4			
5			
6			

SOILS

Profile Description

Depth (inches)			Matrix Color (Munsell Color)		Mottle Color (Munsell Color)		Mottle Abundance/Contrast
0	to	12	10YR	2/2			
	to						
	to						
	to						
	to						
	to						
	to						

Hydric Soil Indicators

	Histosol	x	Gleyed or Low-Chroma Colors
	Histic Epipedon		Concretions/Soft Masses
	Sulfidic Odor	x	Hydric Criteria Met
	Reducing Conditions		Other

Remarks:

HYDROLOGY

Primary Water Source(s):

	Groundwater Discharge		Overbank Flooding
x	Perched Groundwater	x	Precipitation
	Other		

Wetland Hydrology Indicators:

x	Saturated (<12")		Inundated
x	Distinct Drainage Patterns		FAC-Neutral Test
x	Water Marks/Moss Lichen Lines		Other
	Oxidized Rhizospheres		

WETLAND DETERMINATION

Hydrophytic vegetation present?	x	Yes		No
Wetland hydrology present?	x	Yes		No
Hydric soils present?	x	Yes		No

Remarks:

FUNCTIONS AND VALUE ASSESSMENT

	Function/Value:	Rating								
1	Surface Water Storage		H				x	L		N/A	
2	Ground Water Discharge to Streams		H		M			L	x	N/A	
3	Carbon/Nutrient Export		H	x	M			L		N/A	
4	Provide Wildlife Habitat		H	x	M			L		N/A	herps
5	Support WetlandPlants		H	x	M			L		N/A	
6	Cultural Value		Yes				x	No			
7	Research/Scientific		Yes				x	No			
8	Economic Value		Yes				x	No			
9	Exotic Present		Yes				x	No	Honeysuckle		

Remarks:

Little River, AL
WETLAND DETERMINATION

Invetigator(s):	KR	Date:	6-18	2008
Site ID:	LIRI 73	Land Use:	Forest	
UTM: easting	626765	Approximate Size:	0.431	
northing	3805500			
Corwardin Class:	PFO1A	HGM Class:	Slope	

VEGETATION

	Dominant Plant Species	Stratum	Indicator
1	Acer rubrum	Tree	FAC
2	Acer rubrum	Shrub	FAC
3	Sphagnum spp.	Ground	Unknown
4	Arundinaria gigantea	Ground	FACW
5			
6			
7			

Percent of Dominant Species that are OBL, FACW, or FAC? 75%

	Other Plant Species	Stratum	Indicator
1	Osmunda cinnamomea	Ground	FACW+
2	Liquidambar styraciflua	Tree	FAC+
3			
4			
5			
6			

SOILS

Profile Description

Depth (inches)			Matrix Color (Munsell Color)		Mottle Color (Munsell Color)		Mottle Abundance/Contrast
0	to	4	10YR	3/2			
4	to	12	10YR	3/1			
	to						
	to						
	to						
	to						
	to						

Hydric Soil Indicators

	Histosol	x	Gleyed or Low-Chroma Colors
	Histic Epipedon		Concretions/Soft Masses
	Sulfidic Odor	x	Hydric Criteria Met
	Reducing Conditions		Other

Remarks:

HYDROLOGY

Primary Water Source(s):

	Groundwater Discharge		Overbank Flooding
x	Perched Groundwater	x	Precipitation
	Other		

Wetland Hydrology Indicators:

x	Saturated (<12")		Inundated
x	Distinct Drainage Patterns		FAC-Neutral Test
x	Water Marks/Moss Lichen Lines		Other
	Oxidized Rhizospheres		

WETLAND DETERMINATION

Hydrophytic vegetation present?	x	Yes		No
Wetland hydrology present?	x	Yes		No
Hydric soils present?	x	Yes		No

Remarks:

FUNCTIONS AND VALUE ASSESSMENT

Function/Value:		Rating							
1	Surface Water Storage		H			x	L		N/A
2	Ground Water Discharge to Streams		H		M		L	x	N/A
3	Carbon/Nutrient Export		H		M	x	L		N/A
4	Provide Wildlife Habitat		H		M	x	L		N/A
5	Support WetlandPlants		H		M	x	L		N/A
6	Cultural Value		Yes			x	No		
7	Research/Scientific		Yes			x	No		
8	Economic Value		Yes			x	No		
9	Exotic Present		Yes			x	No	Honeysuckle	

Remarks:

Little River, AL
WETLAND DETERMINATION

Invetigator(s):	Matthew		Date:	6-17	2008
Site ID:	LIRI 74		Land Use:	Slope/seep	
UTM: easting	627210		Approximate Size:	0.074	
northing	3806290				
Corwardin Class:	PFO1A		HGM Class:	Slope seep	

VEGETATION

	Dominant Plant Species	Stratum	Indicator
1	Sphagnum spp.	Ground	Uknown
2	Acer rubrum	Tree	FAC
3	Pinus taeda	Tree	FAC
4			
5			
6			
7			

Percent of Dominant Species that are OBL, FACW, or FAC? 66%

	Other Plant Species	Stratum	Indicator
1			
2			
3			
4			
5			
6			

SOILS

Profile Description

Depth (inches)			Matrix Color (Munsell Color)		Mottle Color (Munsell Color)		Mottle Abundance/Contrast
0	to	12	10YR	2/1			
	to						
	to						
	to						
	to						
	to						
	to						

Hydric Soil Indicators

	Histosol	x	Gleyed or Low-Chroma Colors
	Histic Epipedon		Concretions/Soft Masses
	Sulfidic Odor		Hydric Criteria Met
	Reducing Conditions		Other

Remarks:

HYDROLOGY

Primary Water Source(s):

	Groundwater Discharge		Overbank Flooding
x	Perched Groundwater	x	Precipitation
	Other		

Wetland Hydrology Indicators:

x	Saturated (<12")		Inundated
x	Distinct Drainage Patterns		FAC-Neutral Test
	Water Marks/Moss Lichen Lines		Other
	Oxidized Rhizospheres		

WETLAND DETERMINATION

Hydrophytic vegetation present?	x	Yes		No
Wetland hydrology present?	x	Yes		No
Hydric soils present?	x	Yes		No

Remarks:

FUNCTIONS AND VALUE ASSESSMENT

Function/Value:		Rating							
1	Surface Water Storage		H			x	L		N/A
2	Ground Water Discharge to Streams		H		M		L	x	N/A
3	Carbon/Nutrient Export		H		M		L	x	N/A
4	Provide Wildlife Habitat		H		M	x	L		N/A
5	Support WetlandPlants		H		M	x	L		N/A
6	Cultural Value		Yes			x	No		
7	Research/Scientific		Yes			x	No		
8	Economic Value		Yes			x	No		
9	Exotic Present		Yes			x	No		

Remarks:

pic66-67

Little River, AL
WETLAND DETERMINATION

Invetigator(s):	JH	Date:	6-18	2008
Site ID:	LIRI 75	Land Use:	Forested	
UTM: easting	627038	Approximate Size:	0.822	
northing	3805488			
Corwardin Class:	PFO1A	HGM Class:	Slope	

VEGETATION

	Dominant Plant Species	Stratum	Indicator
1	Arythrium filix-femina	Ground	FAC
2	Osmunda cinnamomea	Ground	FACW+
3	Onoclea sensibilis	Ground	FACW
4	Quercus alba	Tree	FACU
5	Liquidambar sytraciflua	Tree	FAC+
6	Acer rubrum	Tree	FAC
7	Nyssa sylvatica	Tree	FAC

Percent of Dominant Species that are OBL, FACW, or FAC? 100%

	Other Plant Species	Stratum	Indicator
1	Sphagnum spp.	Ground	Unknown
2	Onmunda regalis	Ground	OBL
3			
4			
5			
6			

SOILS

Profile Description

Depth (inches)			Matrix Color (Munsell Color)		Mottle Color (Munsell Color)		Mottle Abundance/Contrast
0	to	4	10YR	4/2			
4	to	7	10YR	5/2			
7	to	12	10YR	6/2			
	to						
	to						
	to						
	to						

Hydric Soil Indicators

	Histosol	X	Gleyed or Low-Chroma Colors
	Histic Epipedon		Concretions/Soft Masses
	Sulfidic Odor		Hydric Criteria Met
	Reducing Conditions		Other

Remarks:

HYDROLOGY

Primary Water Source(s):

	Groundwater Discharge		Overbank Flooding
X	Perched Groundwater		Precipitation
	Other		

Wetland Hydrology Indicators:

X	Saturated (<12")		Inundated
X	Distinct Drainage Patterns		FAC-Neutral Test
X	Water Marks/Moss Lichen Lines		Other
	Oxidized Rhizospheres		

WETLAND DETERMINATION

Hydrophytic vegetation present?	X	Yes		No
Wetland hydrology present?	X	Yes		No
Hydric soils present?	X	Yes		No

Remarks:

FUNCTIONS AND VALUE ASSESSMENT

Function/Value:		Rating							
1	Surface Water Storage		H				X	L		N/A
2	Ground Water Discharge to Streams		H		M		X	L		N/A
3	Carbon/Nutrient Export		H		M		X	L		N/A
4	Provide Wildlife Habitat		H		M			L	X	N/A
5	Support WetlandPlants		H	X	M			L		N/A
6	Cultural Value	x	Yes					No	larger than average size	
7	Research/Scientific		Yes				X	No		
8	Economic Value		Yes				X	No		
9	Exotic Present		Yes				X	No		

Remarks:

pic 3-4

Little River, AL
WETLAND DETERMINATION

Invetigator(s):	JH	Date:	6-18	2008
Site ID:	LIRI 76	Land Use:	Forested	
UTM: easting	626908	Approximate Size:	0.138	
northing	3805503			
Corwardin Class:	PFO1A	HGM Class:	Slope	

VEGETATION

	Dominant Plant Species	Stratum	Indicator
1	Acer rubrum	Tree	FAC
2	Liquidambar styraciflua	Tree	FAC+
3	Osmunda cinnamomea	Ground	FACW+
4	Sphagnum spp.	Ground	Unknown
5			
6			
7			

Percent of Dominant Species that are OBL, FACW, or FAC? 75%

	Other Plant Species	Stratum	Indicator
1	Vitus rotundifolia	Vine	FAC-
2	Osmundo regalis	Ground	OBL
3			
4			
5			
6			

SOILS

Profile Description

Depth (inches)			Matrix Color (Munsell Color)		Mottle Color (Munsell Color)		Mottle Abundance/Contrast
0	to	12	10YR	3/1			
	to						
	to						
	to						
	to						
	to						
	to						

Hydric Soil Indicators

	Histosol	X	Gleyed or Low-Chroma Colors
	Histic Epipedon		Concretions/Soft Masses
	Sulfidic Odor	X	Hydric Criteria Met
	Reducing Conditions		Other

Remarks:

HYDROLOGY

Primary Water Source(s):

	Groundwater Discharge		Overbank Flooding
X	Perched Groundwater		Precipitation
X	Other Runoff		

Wetland Hydrology Indicators:

	Saturated (<12")		Inundated
X	Distinct Drainage Patterns		FAC-Neutral Test
X	Water Marks/Moss Lichen Lines		Other
	Oxidized Rhizospheres		

WETLAND DETERMINATION

Hydrophytic vegetation present?	X	Yes		No
Wetland hydrology present?	X	Yes		No
Hydric soils present?	X	Yes		No

Remarks:

FUNCTIONS AND VALUE ASSESSMENT

Function/Value:		Rating							
1	Surface Water Storage		H				L	X	N/A
2	Ground Water Discharge to Streams		H		M		L	X	N/A
3	Carbon/Nutrient Export		H		M	X	L		N/A
4	Provide Wildlife Habitat		H		M	X	L		N/A
5	Support WetlandPlants		H		M	X	L		N/A
6	Cultural Value		Yes			x	No		
7	Research/Scientific		Yes			X	No		
8	Economic Value		Yes			X	No		
9	Exotic Present		Yes			X	No		

Remarks:

PICS 1-2

Little River, AL
WETLAND DETERMINATION

Invetigator(s):	KL		Date:	6/18	2008
Site ID:	LIRI 77		Land Use:	FOREST	
UTM: easting	626718		Approximate Size:	434m2	
northing	3805542				
Corwardin Class:	PFO1A		HGM Class:	SLOPE	

VEGETATION

	Dominant Plant Species	Stratum	Indicator
1	Sphagnum spp.	Ground	OBL
2	Acer rubrum	Tree	FAC
3	Quercus alba	Tree	FACU
4	Smilax spp.	Ground	Uknown
5	Liquidambar styraciflua	Tree	FAC+
6			
7			

Percent of Dominant Species that are OBL, FACW, or FAC? 60%

	Other Plant Species	Stratum	Indicator
1			
2			
3			
4			
5			
6			

SOILS

Profile Description

Depth (inches)			Matrix Color (Munsell Color)		Mottle Color (Munsell Color)		Mottle Abundance/Contrast
1	to	12	10YR	3/2			
	to						
	to						
	to						
	to						
	to						
	to						

Hydric Soil Indicators

	Histosol	x	Gleyed or Low-Chroma Colors
	Histic Epipedon		Concretions/Soft Masses
	Sulfidic Odor		Hydric Criteria Met
	Reducing Conditions		Other

Remarks:

HYDROLOGY

Primary Water Source(s):

	Groundwater Discharge		Overbank Flooding
x	Perched Groundwater	x	Precipitation
	Other		

Wetland Hydrology Indicators:

	Saturated (<12")		Inundated
x	Distinct Drainage Patterns		FAC-Neutral Test
x	Water Marks/Moss Lichen Lines		Other
	Oxidized Rhizospheres		

WETLAND DETERMINATION

Hydrophytic vegetation present?	x	Yes		No
Wetland hydrology present?	x	Yes		No
Hydric soils present?	x	Yes		No

Remarks:

FUNCTIONS AND VALUE ASSESSMENT

Function/Value:		Rating							
1	Surface Water Storage		H			x	L		N/A
2	Ground Water Discharge to Streams		H		M		L	x	N/A
3	Carbon/Nutrient Export		H		M		L	x	N/A
4	Provide Wildlife Habitat		H		M	x	L		N/A
5	Support WetlandPlants	x	H		M		L		N/A
6	Cultural Value		Yes				No		
7	Research/Scientific		Yes			x	No		
8	Economic Value		Yes			x	No		
9	Exotic Present		Yes			x	No		

Remarks: 146/147

Little River, AL
WETLAND DETERMINATION

Invetigator(s):	KL		Date:	6-18	2008
Site ID:	LIRI 78		Land Use:	FOREST	
UTM: easting	627030		Approximate Size:	0.093	
northing	3805493				
Corwardin Class:	PFO1A		HGM Class:	SLOPE	

VEGETATION

	Dominant Plant Species	Stratum	Indicator
1	Sphagnum spp.	Ground	Unknown
2	Acer rubrum	Tree	FAC
3	Quercus spp.	Tree	Unknown
4	Osmunda cinnamomea	Ground	FACW+
5	Liquidumbar stryicaflua	Shrub	FAC+
6			
7			

Percent of Dominant Species that are OBL, FACW, or FAC? 60%

	Other Plant Species	Stratum	Indicator
1			
2			
3			
4			
5			
6			

SOILS

Profile Description

Depth (inches)			Matrix Color (Munsell Color)		Mottle Color (Munsell Color)		Mottle Abundance/Contrast
1	to	12	10YR	3/1			
	to						
	to						
	to						
	to						
	to						
	to						

Hydric Soil Indicators

	Histosol	x	Gleyed or Low-Chroma Colors
	Histic Epipedon		Concretions/Soft Masses
	Sulfidic Odor		Hydric Criteria Met
	Reducing Conditions		Other

Remarks:

HYDROLOGY

Primary Water Source(s):

	Groundwater Discharge		Overbank Flooding
x	Perched Groundwater	x	Precipitation
	Other		

Wetland Hydrology Indicators:

	Saturated (<12")		Inundated
x	Distinct Drainage Patterns		FAC-Neutral Test
x	Water Marks/Moss Lichen Lines		Other
	Oxidized Rhizospheres		

WETLAND DETERMINATION

Hydrophytic vegetation present?	x	Yes		No
Wetland hydrology present?	x	Yes		No
Hydric soils present?	x	Yes		No

Remarks:

FUNCTIONS AND VALUE ASSESSMENT

Function/Value:		Rating							
1	Surface Water Storage		H			x	L		N/A
2	Ground Water Discharge to Streams		H		M		L	x	N/A
3	Carbon/Nutrient Export		H		M		L	x	N/A
4	Provide Wildlife Habitat		H		M	x	L		N/A
5	Support WetlandPlants	x	H		M		L		N/A
6	Cultural Value		Yes			x	No		
7	Research/Scientific		Yes			x	No		
8	Economic Value		Yes			x	No		
9	Exotic Present		Yes			x	No		

Remarks: 148/149

Little River, AL
WETLAND DETERMINATION

Invetigator(s):	KL		Date:	6-18	2008
Site ID:	LIRI 79		Land Use:	FOREST	
UTM: easting	627248		Approximate Size:	0.148	
northing	3806584				
Corwardin Class:	PFO1A		HGM Class:	SLOPE	

VEGETATION

	Dominant Plant Species	Stratum	Indicator
1	Acer rubrum	Tree	FAC
2	Sphagnum sp.	Ground	Unknown
3			
4			
5			
6			
7			

Percent of Dominant Species that are OBL, FACW, or FAC? 50%

	Other Plant Species	Stratum	Indicator
1			
2			
3			
4			
5			
6			

SOILS

Profile Description

Depth (inches)			Matrix Color (Munsell Color)		Mottle Color (Munsell Color)		Mottle Abundance/Contrast
1	to	10	10YR	3/2			
10	to	12	10YR	4/2			
	to						
	to						
	to						
	to						
	to						

Hydric Soil Indicators

	Histosol	x	Gleyed or Low-Chroma Colors
	Histic Epipedon		Concretions/Soft Masses
	Sulfidic Odor		Hydric Criteria Met
	Reducing Conditions		Other

Remarks:

HYDROLOGY

Primary Water Source(s):

	Groundwater Discharge		Overbank Flooding
x	Perched Groundwater	x	Precipitation
	Other		

Wetland Hydrology Indicators:

	Saturated (<12")		Inundated
x	Distinct Drainage Patterns		FAC-Neutral Test
x	Water Marks/Moss Lichen Lines		Other
	Oxidized Rhizospheres		

WETLAND DETERMINATION

Hydrophytic vegetation present?	x	Yes		No
Wetland hydrology present?	x	Yes		No
Hydric soils present?	x	Yes		No

Remarks:

FUNCTIONS AND VALUE ASSESSMENT

Function/Value:		Rating							
1	Surface Water Storage		H		M	x	L		N/A
2	Ground Water Discharge to Streams		H		M		L	x	N/A
3	Carbon/Nutrient Export		H		M		L	x	N/A
4	Provide Wildlife Habitat		H		M	x	L		N/A
5	Support WetlandPlants	x	H		M		L		N/A
6	Cultural Value		Yes			x	No		
7	Research/Scientific		Yes			x	No		
8	Economic Value		Yes			x	No		
9	Exotic Present		Yes			x	No		

Remarks: 150/151

Little River, AL
WETLAND DETERMINATION

Invetigator(s):	KR		Date:	6-18	2008
Site ID:	LIRI 80		Land Use:	Forested	
UTM: easting	626765		Approximate Size:	0.431	
northing	3805500				
Corwardin Class:	PFO1A		HGM Class:	Slope	

VEGETATION

	Dominant Plant Species	Stratum	Indicator
1	Acer rubrum	Tree	FAC
2	Acer rubrum	Shrub	FAC
3	Sphagnum spp.	Ground	Unknown
4	Arundinaria gigantea	Ground	FACW
5	Athyrium filix-femina	Ground	FAC
6			
7			

Percent of Dominant Species that are OBL, FACW, or FAC? 75%

	Other Plant Species	Stratum	Indicator
1	Liquidambar styraciflua	Tree	FAC+
2	Osmunda cinnamomea	Ground	FACW+
3			
4			
5			
6			

SOILS

Profile Description

Depth (inches)			Matrix Color (Munsell Color)		Mottle Color (Munsell Color)		Mottle Abundance/Contrast
0	to	4	10YR	3/2			
4	to	12	10YR	3/1			
	to						
	to						
	to						
	to						
	to						

Hydric Soil Indicators

	Histosol	x	Gleyed or Low-Chroma Colors
	Histic Epipedon		Concretions/Soft Masses
	Sulfidic Odor	x	Hydric Criteria Met
	Reducing Conditions		Other

Remarks:

HYDROLOGY

Primary Water Source(s):

	Groundwater Discharge		Overbank Flooding
x	Perched Groundwater	x	Precipitation
	Other		

Wetland Hydrology Indicators:

x	Saturated (<12")		Inundated
x	Distinct Drainage Patterns		FAC-Neutral Test
x	Water Marks/Moss Lichen Lines		Other
	Oxidized Rhizospheres		

WETLAND DETERMINATION

Hydrophytic vegetation present?	x	Yes		No
Wetland hydrology present?	x	Yes		No
Hydric soils present?	x	Yes		No

Remarks:

FUNCTIONS AND VALUE ASSESSMENT

Function/Value:		Rating							
1	Surface Water Storage		H			x	L		N/A
2	Ground Water Discharge to Streams		H		M		L	x	N/A
3	Carbon/Nutrient Export		H		M	x	L		N/A
4	Provide Wildlife Habitat		H		M	x	L		N/A
5	Support WetlandPlants		H		M	x	L		N/A
6	Cultural Value		Yes			x	No		
7	Research/Scientific		Yes			x	No		
8	Economic Value		Yes			x	No		
9	Exotic Present		Yes			x	No		

Remarks:

Little River, AL
WETLAND DETERMINATION

Invetigator(s):	KR	Date:	6-18	2008
Site ID:	LIRI 81	Land Use:	Forest	
UTM: easting	627246	Approximate Size:	0.383	
northing	3805462			
Corwardin Class:	PFO1A	HGM Class:	Slope	

VEGETATION

	Dominant Plant Species	Stratum	Indicator
1	Athyrium filix-femina	Ground	FAC
2	Osmunda cinnamomea	Ground	FACW+
3	Acer rubrum	Tree	FAC
4	Acer rubrum	Shrub	FAC
5	Smilax rotundifolia	Vine	FAC
6	Sphagnum spp.	Ground	Unknown
7			

Percent of Dominant Species that are OBL, FACW, or FAC? 83%

	Other Plant Species	Stratum	Indicator
1	Xanthorhiza simplicissma	Ground	FACW-
2	Hexastylis spp.	Ground	Unknown
3	Arundinaria gigantea	Ground	FACW-
4	Liquidambar styraciflua	Tree	FAC+
5			
6			

SOILS

Profile Description

Depth (inches)			Matrix Color (Munsell Color)		Mottle Color (Munsell Color)		Mottle Abundance/Contrast
0	to	4	10YR	3/1			
4	to	9	10YR	5/2			
9	to	12	10YR	5/2	10YR	5/8	20%
	to						
	to						
	to						
	to						

Hydric Soil Indicators

	Histosol	x	Gleyed or Low-Chroma Colors
	Histic Epipedon		Concretions/Soft Masses
	Sulfidic Odor	x	Hydric Criteria Met
	Reducing Conditions		Other

Remarks:

HYDROLOGY

Primary Water Source(s):

	Groundwater Discharge		Overbank Flooding
x	Perched Groundwater	x	Precipitation
	Other		

Wetland Hydrology Indicators:

x	Saturated (<12")		Inundated
x	Distinct Drainage Patterns		FAC-Neutral Test
	Water Marks/Moss Lichen Lines		Other
	Oxidized Rhizospheres		

WETLAND DETERMINATION

Hydrophytic vegetation present?	x	Yes		No
Wetland hydrology present?	x	Yes		No
Hydric soils present?	x	Yes		No

Remarks:

FUNCTIONS AND VALUE ASSESSMENT

	Function/Value:	Rating							
1	Surface Water Storage		H			x	L		N/A
2	Ground Water Discharge to Streams		H		M		L	x	N/A
3	Carbon/Nutrient Export		H		M	x	L		N/A
4	Provide Wildlife Habitat		H		M	x	L		N/A herps
5	Support WetlandPlants		H	x	M		L		N/A
6	Cultural Value	x	Yes				No	Larger than average size	
7	Research/Scientific		Yes			x	No		
8	Economic Value		Yes			x	No		
9	Exotic Present		Yes			x	No		

Remarks:

Little River, AL
WETLAND DETERMINATION

Invetigator(s):	KR	Date:	6-18	2008
Site ID:	LIRI 82	Land Use:	Forest	
UTM: easting	627185	Approximate Size:	0.398	
northing	3806574			
Corwardin Class:	PFO1A	HGM Class:	Slope	

VEGETATION

	Dominant Plant Species	Stratum	Indicator
1	Athyrium filix-femina	Ground	FAC
2	Liriodendron tulipifera	Shrub	FAC
3	Acer ruburm	Tree	FAC
4			
5			
6			
7			

Percent of Dominant Species that are OBL, FACW, or FAC? 100%

	Other Plant Species	Stratum	Indicator
1	Xantharhiza simplicissma	Ground	FACW-
2	Sphagnum spp.	Ground	Unknown
3	Arundinaria gigantea	Shrub	FACW
4			
5			
6			

SOILS

Profile Description

Depth (inches)			Matrix Color (Munsell Color)		Mottle Color (Munsell Color)		Mottle Abundance/Contrast
0	to	6	10YR	3/2			
6	to	8	10YR	3/2	10YR	3/6	5%
8	to	12	10YR	4/1	10YR	3/6	5%
	to						
	to						
	to						
	to						

Hydric Soil Indicators

	Histosol	x	Gleyed or Low-Chroma Colors
	Histic Epipedon		Concretions/Soft Masses
	Sulfidic Odor	x	Hydric Criteria Met
	Reducing Conditions		Other

Remarks:

HYDROLOGY

Primary Water Source(s):

	Groundwater Discharge		Overbank Flooding
x	Perched Groundwater	x	Precipitation
	Other		

Wetland Hydrology Indicators:

x	Saturated (<12")		Inundated
x	Distinct Drainage Patterns		FAC-Neutral Test
x	Water Marks/Moss Lichen Lines		Other
	Oxidized Rhizospheres		

WETLAND DETERMINATION

Hydrophytic vegetation present?	x	Yes		No
Wetland hydrology present?	x	Yes		No
Hydric soils present?	x	Yes		No

Remarks:

FUNCTIONS AND VALUE ASSESSMENT

Function/Value:		Rating							
1	Surface Water Storage		H				x	L		N/A
2	Ground Water Discharge to Streams		H		M			L	x	N/A
3	Carbon/Nutrient Export	x	H		M			L		N/A
4	Provide Wildlife Habitat		H	x	M			L		N/A
5	Support WetlandPlants		H		M		x	L		N/A
6	Cultural Value	x	Yes					No		Next to road
7	Research/Scientific		Yes				x	No		
8	Economic Value		Yes				x	No		
9	Exotic Present		Yes				x	No		

Remarks:

Little River, AL
WETLAND DETERMINATION

Invetigator(s):	KR	Date:	6-18	2008
Site ID:	LIRI 83	Land Use:	Forest	
UTM: easting	627512	Approximate Size:	0.045	
northing	3806413			
Corwardin Class:	PFO1A	HGM Class:	Slope	

VEGETATION

	Dominant Plant Species	Stratum	Indicator
1	Liquidambar styraciflua	Shrub	FAC+
2	Liquidambar styraciflua	Tree	FAC+
3	Acer ruburm	Tree	FAC
4	Sphagnum spp.	Ground	Unknown
5			
6			
7			

Percent of Dominant Species that are OBL, FACW, or FAC? 75%

	Other Plant Species	Stratum	Indicator
1	Pinus taeda	Shrub	FAC
2	Pinus taeda	Tree	FAC
3			
4			
5			
6			

SOILS

Profile Description

Depth (inches)			Matrix Color (Munsell Color)		Mottle Color (Munsell Color)		Mottle Abundance/Contrast
0	to	2	10YR	3/2			
2	to	12		rock			
	to						
	to						
	to						
	to						
	to						

Hydric Soil Indicators

	Histosol	x	Gleyed or Low-Chroma Colors
	Histic Epipedon		Concretions/Soft Masses
	Sulfidic Odor	x	Hydric Criteria Met
	Reducing Conditions		Other

Remarks:

HYDROLOGY

Primary Water Source(s):

	Groundwater Discharge		Overbank Flooding
x	Perched Groundwater	x	Precipitation
	Other		

Wetland Hydrology Indicators:

	Saturated (<12")		Inundated
x	Distinct Drainage Patterns		FAC-Neutral Test
x	Water Marks/Moss Lichen Lines		Other
	Oxidized Rhizospheres		

WETLAND DETERMINATION

Hydrophytic vegetation present?	x	Yes		No
Wetland hydrology present?	x	Yes		No
Hydric soils present?	x	Yes		No

Remarks:

FUNCTIONS AND VALUE ASSESSMENT

Function/Value:		Rating							
1	Surface Water Storage		H			x	L		N/A
2	Ground Water Discharge to Streams		H		M		L	x	N/A
3	Carbon/Nutrient Export		H		M	x	L		N/A
4	Provide Wildlife Habitat		H		M	x	L		N/A
5	Support WetlandPlants		H		M	x	L		N/A
6	Cultural Value		Yes			x	No		
7	Research/Scientific		Yes			x	No		
8	Economic Value		Yes			x	No		
9	Exotic Present		Yes			x	No		

Remarks:

Little River, AL
WETLAND DETERMINATION

Invetigator(s):	Matthew		Date:	6-18	2008
Site ID:	LIRI 84		Land Use:	Forest	
UTM: easting	627338		Approximate Size:	2.172	
northing	3805468				
Corwardin Class:	PFO1A		HGM Class:	Slope/ Seep	

VEGETATION

	Dominant Plant Species	Stratum	Indicator
1	Acer rubrum	Tree	FAC
2	Liquidambar stryaciflua	Tree	FAC+
3	Sphagnum spp.	Ground	Uknown
4	Vaccinium corymbosum	Shrub	FACW
5	Smilax rotundifolia	Vine	FAC
6			
7			

Percent of Dominant Species that are OBL, FACW, or FAC? 80%

	Other Plant Species	Stratum	Indicator
1			
2			
3			
4			
5			
6			

SOILS

Profile Description

Depth (inches)			Matrix Color (Munsell Color)		Mottle Color (Munsell Color)		Mottle Abundance/Contrast
0	to	12	2.5YR	2.5/1			
	to						
	to						
	to						
	to						
	to						
	to						

Hydric Soil Indicators

	Histosol	x	Gleyed or Low-Chroma Colors
	Histic Epipedon		Concretions/Soft Masses
	Sulfidic Odor		Hydric Criteria Met
	Reducing Conditions		Other

Remarks:

sandy soils

HYDROLOGY

Primary Water Source(s):

	Groundwater Discharge		Overbank Flooding
x	Perched Groundwater	x	Precipitation
	Other		

Wetland Hydrology Indicators:

x	Saturated (<12")		Inundated
x	Distinct Drainage Patterns		FAC-Neutral Test
x	Water Marks/Moss Lichen Lines		Other
	Oxidized Rhizospheres		

WETLAND DETERMINATION

Hydrophytic vegetation present?	x	Yes		No
Wetland hydrology present?	x	Yes		No
Hydric soils present?	x	Yes		No

Remarks:

FUNCTIONS AND VALUE ASSESSMENT

Function/Value:		Rating							
1	Surface Water Storage		H				L	x	N/A
2	Ground Water Discharge to Streams		H		M		L	x	N/A
3	Carbon/Nutrient Export		H		M		L	x	N/A
4	Provide Wildlife Habitat		H		M	x	L		N/A
5	Support WetlandPlants		H		M	x	L		N/A
6	Cultural Value	x	Yes				No		Larger than average size
7	Research/Scientific		Yes			x	No		
8	Economic Value		Yes			x	No		
9	Exotic Present	x	Yes				No		Lonceria japonica

Remarks:

PIC68-69

Little River, AL
WETLAND DETERMINATION

Invetigator(s):	Matthew		Date:	6-18	2008
Site ID:	LIRI 85		Land Use:	Forest	
UTM: easting	626573		Approximate Size:	0.708	
northing	3805382				
Corwardin Class:	PF01A		HGM Class:	Slope/ Seep	

VEGETATION

	Dominant Plant Species	Stratum	Indicator
1	Acer rubrum	Tree	FAC
2	Liquidambar stryaciflua	Tree	FAC+
3	Sphagnum spp.	Ground	Uknown
4	Vaccinium corymbosum	Shrub	FACW
5	Smilax rotundifolia	Vine	FAC
6			
7			

Percent of Dominant Species that are OBL, FACW, or FAC? 100%

	Other Plant Species	Stratum	Indicator
1	Quercus phellos	Tree	FACW-
2	Panicum spp.	Ground	Uknown
3			
4			
5			
6			

SOILS

Profile Description

Depth (inches)			Matrix Color (Munsell Color)		Mottle Color (Munsell Color)		Mottle Abundance/Contrast
0	to	12	2.5YR	2.5/1			
	to						
	to						
	to						
	to						
	to						
	to						

Hydric Soil Indicators

	Histosol	x	Gleyed or Low-Chroma Colors
	Histic Epipedon		Concretions/Soft Masses
	Sulfidic Odor		Hydric Criteria Met
	Reducing Conditions		Other

Remarks:

sandy soils

HYDROLOGY

Primary Water Source(s):

	Groundwater Discharge		Overbank Flooding
x	Perched Groundwater	x	Precipitation
	Other		

Wetland Hydrology Indicators:

x	Saturated (<12")		Inundated
x	Distinct Drainage Patterns		FAC-Neutral Test
x	Water Marks/Moss Lichen Lines		Other
	Oxidized Rhizospheres		

WETLAND DETERMINATION

Hydrophytic vegetation present?	x	Yes		No
Wetland hydrology present?	x	Yes		No
Hydric soils present?	x	Yes		No

Remarks:

FUNCTIONS AND VALUE ASSESSMENT

Function/Value:		Rating							
1	Surface Water Storage		H				L	x	N/A
2	Ground Water Discharge to Streams		H		M		L	x	N/A
3	Carbon/Nutrient Export		H		M		L	x	N/A
4	Provide Wildlife Habitat		H		M	x	L		N/A
5	Support WetlandPlants		H		M	x	L		N/A
6	Cultural Value		Yes			x	No		
7	Research/Scientific		Yes			x	No		
8	Economic Value		Yes			x	No		
9	Exotic Present	x	Yes				No		Lonceria japonica

Remarks:

PIC70-71

Little River, AL
WETLAND DETERMINATION

Invetigator(s):	KL		Date:	6/19	2008
Site ID:	LIRI 86		Land Use:	FOREST	
UTM: easting	627577		Approximate Size:	0.217	
northing	3806775				
Corwardin Class:	PFO1A		HGM Class:	SLOPE	

VEGETATION

	Dominant Plant Species	Stratum	Indicator
1	Quercus alba	Tree	FACU
2	Acer rubrum	Tree	FAC
3	Pinus taeda	Tree	FAC
4	Sphagnum spp.	Ground	Uknown
5	Carex spp.	Ground	OBL
6	Liquidambar stryciflua	Shrub	FAC+
7			

Percent of Dominant Species that are OBL, FACW, or FAC? 67%

	Other Plant Species	Stratum	Indicator
1			
2			
3			
4			
5			
6			

SOILS

Profile Description

Depth (inches)			Matrix Color (Munsell Color)		Mottle Color (Munsell Color)		Mottle Abundance/Contrast
1	to	12	2.5Y	2.5/1			
	to						
	to						
	to						
	to						
	to						
	to						

Hydric Soil Indicators

	Histosol	x	Gleyed or Low-Chroma Colors
	Histic Epipedon		Concretions/Soft Masses
	Sulfidic Odor		Hydric Criteria Met
	Reducing Conditions		Other

Remarks:

HYDROLOGY

Primary Water Source(s):

	Groundwater Discharge		Overbank Flooding
x	Perched Groundwater	x	Precipitation
	Other		

Wetland Hydrology Indicators:

	Saturated (<12")		Inundated
x	Distinct Drainage Patterns		FAC-Neutral Test
x	Water Marks/Moss Lichen Lines		Other
	Oxidized Rhizospheres		

WETLAND DETERMINATION

Hydrophytic vegetation present?	x	Yes		No
Wetland hydrology present?	x	Yes		No
Hydric soils present?	x	Yes		No

Remarks:

FUNCTIONS AND VALUE ASSESSMENT

Function/Value:		Rating							
1	Surface Water Storage		H			x	L		N/A
2	Ground Water Discharge to Streams		H		M		L	x	N/A
3	Carbon/Nutrient Export		H		M		L	x	N/A
4	Provide Wildlife Habitat		H		M	x	L		N/A
5	Support WetlandPlants	x	H		M		L		N/A
6	Cultural Value		Yes			x	No		
7	Research/Scientific		Yes			x	No		
8	Economic Value		Yes			x	No		
9	Exotic Present		Yes			x	No		

Remarks: 152/153

Little River, AL
WETLAND DETERMINATION

Invetigator(s):	KL		Date:	6/19	2008
Site ID:	LIRI 87		Land Use:	FOREST	
UTM: easting	627452		Approximate Size:	0.206	
northing	3806850				
Corwardin Class:	PFO1A		HGM Class:	SLOPE	

VEGETATION

	Dominant Plant Species	Stratum	Indicator
1	Quercus alba	Tree	FACU
2	Acer rubrum	Tree	FAC
3	Pinus spp.	Tree	Uknown
4	Sphagnum spp.	Ground	Uknown
5	Carex spp.	Ground	OBL
6	Liquidambar stryciflua	Shrub	FAC
7	Athyrium filix-femina	Ground	FAC

Percent of Dominant Species that are OBL, FACW, or FAC? 58%

	Other Plant Species	Stratum	Indicator
1			
2			
3			
4			
5			
6			

SOILS

Profile Description

Depth (inches)			Matrix Color (Munsell Color)		Mottle Color (Munsell Color)		Mottle Abundance/Contrast
1	to	12	2.5Y	2.5/1			
	to						
	to						
	to						
	to						
	to						
	to						

Hydric Soil Indicators

	Histosol	x	Gleyed or Low-Chroma Colors
	Histic Epipedon		Concretions/Soft Masses
	Sulfidic Odor		Hydric Criteria Met
	Reducing Conditions		Other

Remarks:

HYDROLOGY

Primary Water Source(s):

	Groundwater Discharge		Overbank Flooding
x	Perched Groundwater	x	Precipitation
	Other		

Wetland Hydrology Indicators:

	Saturated (<12")		Inundated
x	Distinct Drainage Patterns		FAC-Neutral Test
x	Water Marks/Moss Lichen Lines		Other
	Oxidized Rhizospheres		

WETLAND DETERMINATION

Hydrophytic vegetation present?	x	Yes		No
Wetland hydrology present?	x	Yes		No
Hydric soils present?	x	Yes		No

Remarks:

FUNCTIONS AND VALUE ASSESSMENT

Function/Value:		Rating							
1	Surface Water Storage		H			x	L		N/A
2	Ground Water Discharge to Streams		H		M		L	x	N/A
3	Carbon/Nutrient Export		H		M		L	x	N/A
4	Provide Wildlife Habitat		H		M	x	L		N/A
5	Support WetlandPlants	x	H		M		L		N/A
6	Cultural Value		Yes				No		
7	Research/Scientific		Yes			x	No		
8	Economic Value		Yes			x	No		
9	Exotic Present		Yes			x	No		

Remarks: 154/155

Little River, AL
WETLAND DETERMINATION

Invetigator(s):	KR	Date:	6-19	2008
Site ID:	LIRI 88	Land Use:	Forest	
UTM: easting	627506	Approximate Size:	0.157	
northing	3806886			
Corwardin Class:	PFO1A	HGM Class:	Slope	

VEGETATION

	Dominant Plant Species	Stratum	Indicator
1	Liquidambar styraciflua	Shrub	FAC+
2	Athyruim filix-femina	Ground	FAC
3	Acer ruburm	Tree	FAC
4	Sphagnum spp.	Ground	Unknown
5	Quercus alba	Tree	FAC
6	Osmunda cinnomomea	Ground	FACW+
7			

Percent of Dominant Species that are OBL, FACW, or FAC? 83%

	Other Plant Species	Stratum	Indicator
1	Xanthorhiza simplicissma	Ground	FACW-
2	Hexastylis spp.	Ground	Unknown
3			
4			
5			
6			

SOILS

Profile Description

Depth (inches)			Matrix Color (Munsell Color)		Mottle Color (Munsell Color)		Mottle Abundance/Contrast
0	to	6	10YR	2/2			
6	to	12	10YR	2/1			
	to						
	to						
	to						
	to						
	to						

Hydric Soil Indicators

	Histosol	x	Gleyed or Low-Chroma Colors
	Histic Epipedon		Concretions/Soft Masses
	Sulfidic Odor	x	Hydric Criteria Met
	Reducing Conditions		Other

Remarks:

HYDROLOGY

Primary Water Source(s):

	Groundwater Discharge		Overbank Flooding
x	Perched Groundwater	x	Precipitation
	Other		

Wetland Hydrology Indicators:

x	Saturated (<12")		Inundated
x	Distinct Drainage Patterns		FAC-Neutral Test
x	Water Marks/Moss Lichen Lines		Other
	Oxidized Rhizospheres		

WETLAND DETERMINATION

Hydrophytic vegetation present?	x	Yes		No
Wetland hydrology present?	x	Yes		No
Hydric soils present?	x	Yes		No

Remarks:

FUNCTIONS AND VALUE ASSESSMENT

Function/Value:		Rating							
1	Surface Water Storage		H				x	L		N/A
2	Ground Water Discharge to Streams		H		M			L	x	N/A
3	Carbon/Nutrient Export		H	x	M			L		N/A
4	Provide Wildlife Habitat		H	x	M			L		N/A
5	Support WetlandPlants		H	x	M			L		N/A
6	Cultural Value		Yes				x	No		
7	Research/Scientific		Yes				x	No		
8	Economic Value		Yes				x	No		
9	Exotic Present		Yes				x	No		

Remarks:

Little River, AL
WETLAND DETERMINATION

Invetigator(s):	Matthew		Date:	6-19	2008
Site ID:	LIRI 89		Land Use:	Forest	
UTM: easting	627527		Approximate Size:	1.486	
northing	3807150				
Corwardin Class:	PFO1A		HGM Class:	Depression	

VEGETATION

	Dominant Plant Species	Stratum	Indicator
1	Acer rubrum	Tree	FAC
2	Liquidambar stryaciflua	Tree	FAC+
3	Sphagnum spp.	Ground	Uknown
4	Athyrium filix-femina	Ground	FAC
5	Smilax rotundifolia	Vine	FAC
6	Microstegium vinemun	Ground	FAC+
7			

Percent of Dominant Species that are OBL, FACW, or FAC? 100%

	Other Plant Species	Stratum	Indicator
1			
2			
3			
4			
5			
6			

SOILS

Profile Description

Depth (inches)			Matrix Color (Munsell Color)		Mottle Color (Munsell Color)		Mottle Abundance/Contrast
0	to	12	10YR	4/2			
	to						
	to						
	to						
	to						
	to						
	to						

Hydric Soil Indicators

	Histosol	x	Gleyed or Low-Chroma Colors
	Histic Epipedon		Concretions/Soft Masses
	Sulfidic Odor		Hydric Criteria Met
	Reducing Conditions		Other

Remarks:

sandy soils

HYDROLOGY

Primary Water Source(s):

x	Groundwater Discharge		Overbank Flooding
x	Perched Groundwater	x	Precipitation
	Other		

Wetland Hydrology Indicators:

x	Saturated (<12")		Inundated
x	Distinct Drainage Patterns		FAC-Neutral Test
x	Water Marks/Moss Lichen Lines		Other
	Oxidized Rhizospheres		

WETLAND DETERMINATION

Hydrophytic vegetation present?	x	Yes		No
Wetland hydrology present?	x	Yes		No
Hydric soils present?	x	Yes		No

Remarks:

FUNCTIONS AND VALUE ASSESSMENT

	Function/Value:	Rating							
1	Surface Water Storage		H				L	x	N/A
2	Ground Water Discharge to Streams		H		M		L	x	N/A
3	Carbon/Nutrient Export		H		M		L	x	N/A
4	Provide Wildlife Habitat		H		M	x	L		N/A
5	Support WetlandPlants		H		M	x	L		N/A
6	Cultural Value		Yes				No		
7	Research/Scientific		Yes			x	No		
8	Economic Value		Yes			x	No		
9	Exotic Present	x	Yes				No		Lonceria japonica

Remarks:

pic 72-73-74

Little River, AL
WETLAND DETERMINATION

Invetigator(s):	EW		Date:	6-20	2008
Site ID:	LIRI 90		Land Use:	Forested	
UTM: easting	628786		Approximate Size:	0.136	
northing	3808680				
Corwardin Class:	PFO1A		HGM Class:	slope	

VEGETATION

	Dominant Plant Species	Stratum	Indicator
1	Quercus stellata	Tree	FACU
2	Sphagnum spp.	Ground	Uknown
3	Acer saccharinum	Tree	FACW
4	Athyrium filix-femina	Ground	FAC
5	Plantanus occidentalis	Tree	FACW-
6			
7			

Percent of Dominant Species that are OBL, FACW, or FAC? 66%

	Other Plant Species	Stratum	Indicator
1	Panicum spp.	Ground	Uknown
2	Smilax rotundifolia	Vine	FAC
3			
4			
5			
6			

SOILS

Profile Description

Depth (inches)			Matrix Color (Munsell Color)		Mottle Color (Munsell Color)		Mottle Abundance/Contrast
0	to	3	10YR	4/2			
3	to	8	10YR	5/2			
8	to	12	10YR	5/2	10YR	5/6	10%
	to						
	to						
	to						
	to						

Hydric Soil Indicators

	Histosol	X	Gleyed or Low-Chroma Colors
	Histic Epipedon	X	Concretions/Soft Masses
	Sulfidic Odor		Hydric Criteria Met
	Reducing Conditions		Other

Remarks:

HYDROLOGY

Primary Water Source(s):

X	Groundwater Discharge		Overbank Flooding
X	Perched Groundwater		Precipitation
	Other		

Wetland Hydrology Indicators:

X	Saturated (<12")		Inundated
X	Distinct Drainage Patterns		FAC-Neutral Test
X	Water Marks/Moss Lichen Lines		Other
X	Oxidized Rhizospheres		

WETLAND DETERMINATION

Hydrophytic vegetation present?	X	Yes		No
Wetland hydrology present?	X	Yes		No
Hydric soils present?	X	Yes		No

Remarks:

FUNCTIONS AND VALUE ASSESSMENT

Function/Value:		Rating							
1	Surface Water Storage		H				X	L		N/A
2	Ground Water Discharge to Streams		H		M		X	L		N/A
3	Carbon/Nutrient Export		H		M		X	L		N/A
4	Provide Wildlife Habitat		H		M			L	X	N/A
5	Support WetlandPlants		H	X	M			L		N/A
6	Cultural Value		Yes					No		
7	Research/Scientific		Yes				X	No		
8	Economic Value		Yes				X	No		
9	Exotic Present		Yes				X	No		

Remarks:

ew pic 56-57 12:30

Little River, AL
WETLAND DETERMINATION

Invetigator(s):	JH	Date:	6-20	2008
Site ID:	LIRI 91	Land Use:	forested	
UTM: easting	627994	Approximate Size:	0.029	
northing	3807655			
Corwardin Class:	PFO1A	HGM Class:	Slope	

VEGETATION

	Dominant Plant Species	Stratum	Indicator
1	Sphagnum spp.	Ground	Uknown
2	Acer rubrum	Tree	FAC
3	Sphagnum spp.	Ground	Uknown
4	Oxydendrum ardoreum	Tree	NI
5	Nyssa sylcatica	Tree	FAC
6	Vaccinium corymbosum	Shrub	FACW
7	Osmunda cinnamomea	Ground	FACW+

Percent of Dominant Species that are OBL, FACW, or FAC? 71%

	Other Plant Species	Stratum	Indicator
1	Arundinaria gigantea	Ground	FACW
2			
3			
4			
5			
6			

SOILS

Profile Description

Depth (inches)			Matrix Color (Munsell Color)		Mottle Color (Munsell Color)		Mottle Abundance/Contrast
1	to	3	2.5Y	4/7	Gley	3/N	20%
3	to	5	2.5Y	5/2			
	to						
	to						
	to						
	to						
	to						

Hydric Soil Indicators

	Histosol	X	Gleyed or Low-Chroma Colors
	Histic Epipedon		Concretions/Soft Masses
	Sulfidic Odor	X	Hydric Criteria Met
	Reducing Conditions		Other

Remarks:

HYDROLOGY

Primary Water Source(s):

	Groundwater Discharge		Overbank Flooding
X	Perched Groundwater	X	Precipitation
	Other		

Wetland Hydrology Indicators:

X	Saturated (<12")		Inundated
X	Distinct Drainage Patterns		FAC-Neutral Test
	Water Marks/Moss Lichen Lines		Other
	Oxidized Rhizospheres		

WETLAND DETERMINATION

Hydrophytic vegetation present?	X	Yes		No
Wetland hydrology present?	X	Yes		No
Hydric soils present?	X	Yes		No

Remarks:

FUNCTIONS AND VALUE ASSESSMENT

Function/Value:		Rating							
1	Surface Water Storage		H			X	L		N/A
2	Ground Water Discharge to Streams		H		M	X	L		N/A
3	Carbon/Nutrient Export		H		M	X	L		N/A
4	Provide Wildlife Habitat		H		M	X	L		N/A
5	Support WetlandPlants		H		M	X	L		N/A
6	Cultural Value		Yes			x	No		
7	Research/Scientific		Yes			X	No		
8	Economic Value		Yes			X	No		
9	Exotic Present		Yes			X	No		

Remarks:

PIC 5-6

Little River, AL
WETLAND DETERMINATION

Invetigator(s):	JH		Date:	6-20	2008
Site ID:	LIRI 92		Land Use:	Forest	
UTM: easting	627962		Approximate Size:	0.519	
northing	3807709				
Corwardin Class:	PFO1A		HGM Class:	Slope	

VEGETATION

	Dominant Plant Species	Stratum	Indicator
1	Acer rubrum	Tree	FAC
2	Oxydendrum arboreum	Tree	NI
3	Nyssa sylvatica	Tree	FAC
4	Sphagnum sp.p	Ground	Unknown
5			
6			
7			

Percent of Dominant Species that are OBL, FACW, or FAC? 50%

	Other Plant Species	Stratum	Indicator
1	Lobelia spp.	Ground	Unknown
2			
3			
4			
5			
6			

SOILS

Profile Description

Depth (inches)			Matrix Color (Munsell Color)		Mottle Color (Munsell Color)		Mottle Abundance/Contrast
0	to	6	2.5Y	6/2	2.5Y	5/6	20%
6	to	12	2.5Y	6/2	2.5Y	5/6	50%
	to						
	to						
	to						
	to						
	to						

Hydric Soil Indicators

	Histosol	X	Gleyed or Low-Chroma Colors
	Histic Epipedon	X	Concretions/Soft Masses
	Sulfidic Odor		Hydric Criteria Met
	Reducing Conditions		Other

Remarks:

HYDROLOGY

Primary Water Source(s):

	Groundwater Discharge		Overbank Flooding
X	Perched Groundwater	X	Precipitation
	Other		

Wetland Hydrology Indicators:

	Saturated (<12")		Inundated
X	Distinct Drainage Patterns		FAC-Neutral Test
	Water Marks/Moss Lichen Lines		Other
	Oxidized Rhizospheres		

WETLAND DETERMINATION

Hydrophytic vegetation present?	X	Yes		No
Wetland hydrology present?	X	Yes		No
Hydric soils present?	X	Yes		No

Remarks:

FUNCTIONS AND VALUE ASSESSMENT

Function/Value:		Rating							
1	Surface Water Storage		H			X	L		N/A
2	Ground Water Discharge to Streams		H		M	X	L		N/A
3	Carbon/Nutrient Export		H		M	X	L		N/A
4	Provide Wildlife Habitat		H		M	X	L		N/A
5	Support WetlandPlants		H		M	X	L		N/A
6	Cultural Value		Yes			x	No		
7	Research/Scientific		Yes			X	No		
8	Economic Value		Yes			X	No		
9	Exotic Present		Yes			X	No		

Remarks:

PIC 7-8

Little River, AL
WETLAND DETERMINATION

Invetigator(s):	KR	Date:	6-20	2008
Site ID:	LIRI 93	Land Use:	Forest	
UTM: easting	628619	Approximate Size:	0.848	
northing	3807962			
Corwardin Class:	PFO1A	HGM Class:	Slope	

VEGETATION

	Dominant Plant Species	Stratum	Indicator
1	Osmunda cinnamomea	Ground	FACW+
2	Acer rubrum	Tree	FACW+
3	Pinus taeda	Tree	FACW+
4	Sphagnum spp.	Ground	Unknown
5	Liquidambar styraciflua	Ground	FAC+
6			
7			

Percent of Dominant Species that are OBL, FACW, or FAC? 80%

	Other Plant Species	Stratum	Indicator
1	Osmunda regalis	Ground	OBL
2	Vaccinium corymbosum	Shrub	FACW
3			
4			
5			
6			

SOILS

Profile Description

Depth (inches)			Matrix Color (Munsell Color)		Mottle Color (Munsell Color)		Mottle Abundance/Contrast
0	to	10	10YR	5/1			
10	to	12	10YR	6/2	10YR	6/8	
	to						
	to						
	to						
	to						
	to						

Hydric Soil Indicators

	Histosol	x	Gleyed or Low-Chroma Colors
	Histic Epipedon		Concretions/Soft Masses
	Sulfidic Odor	x	Hydric Criteria Met
	Reducing Conditions		Other

Remarks:

HYDROLOGY

Primary Water Source(s):

	Groundwater Discharge		Overbank Flooding
x	Perched Groundwater	x	Precipitation
	Other		

Wetland Hydrology Indicators:

x	Saturated (<12")		Inundated
x	Distinct Drainage Patterns		FAC-Neutral Test
x	Water Marks/Moss Lichen Lines		Other
x	Oxidized Rhizospheres		

WETLAND DETERMINATION

Hydrophytic vegetation present?	x	Yes		No
Wetland hydrology present?	x	Yes		No
Hydric soils present?	x	Yes		No

Remarks:

FUNCTIONS AND VALUE ASSESSMENT

Function/Value:		Rating							
1	Surface Water Storage	x	H				L		N/A
2	Ground Water Discharge to Streams		H		M		L	x	N/A
3	Carbon/Nutrient Export		H	x	M		L		N/A
4	Provide Wildlife Habitat		H	x	M		L		N/A
5	Support WetlandPlants	x	H		M		L		N/A
6	Cultural Value	x	Yes				No		Larger than average size
7	Research/Scientific		Yes			x	No		
8	Economic Value		Yes			x	No		
9	Exotic Present		Yes			x	No		

Remarks:

Little River, AL
WETLAND DETERMINATION

Invetigator(s):	JH	Date:	6-24	2008
Site ID:	LIRI 94	Land Use:	Forest	
UTM: easting	628401	Approximate Size:	0.193	
northing	3807014			
Corwardin Class:	PFO1A	HGM Class:	Slope	

VEGETATION

	Dominant Plant Species	Stratum	Indicator
1	Acer rubrum	Tree	FAC
2	Nyssa sylvatica	Tree	FAC
3	Oxydendrum arboreum	Tree	Uknown
4	Pinus taeda	Tree	FAC
5	Sphagnum spp.	Ground	Uknown
6			
7			

Percent of Dominant Species that are OBL, FACW, or FAC? 75%

	Other Plant Species	Stratum	Indicator
1	Onoclea sensibilis	Ground	OBL
2	Arythrium filix-femina	Ground	FAC
3	Osmunda cinnamomea	Ground	FACW+
4			
5			
6			

SOILS

Profile Description

Depth (inches)			Matrix Color (Munsell Color)		Mottle Color (Munsell Color)		Mottle Abundance/Contrast
0	to	12	2.5Y	4/2			
	to						
	to						
	to						
	to						
	to						
	to						

Hydric Soil Indicators

	Histosol	X	Gleyed or Low-Chroma Colors
	Histic Epipedon		Concretions/Soft Masses
	Sulfidic Odor		Hydric Criteria Met
	Reducing Conditions		Other

Remarks:

HYDROLOGY

Primary Water Source(s):

	Groundwater Discharge		Overbank Flooding
X	Perched Groundwater	X	Precipitation
	Other		

Wetland Hydrology Indicators:

X	Saturated (<12")		Inundated
X	Distinct Drainage Patterns		FAC-Neutral Test
	Water Marks/Moss Lichen Lines		Other
	Oxidized Rhizospheres		

WETLAND DETERMINATION

Hydrophytic vegetation present?	X	Yes		No
Wetland hydrology present?	X	Yes		No
Hydric soils present?	X	Yes		No

Remarks:

FUNCTIONS AND VALUE ASSESSMENT

Function/Value:		Rating							
1	Surface Water Storage		H				X	L		N/A
2	Ground Water Discharge to Streams		H	X	M			L		N/A
3	Carbon/Nutrient Export		H		M		X	L		N/A
4	Provide Wildlife Habitat		H		M		X	L		N/A
5	Support WetlandPlants		H		M		X	L		N/A
6	Cultural Value		Yes				x	No		
7	Research/Scientific		Yes				X	No		
8	Economic Value		Yes				X	No		
9	Exotic Present		Yes				X	No		

Remarks:

PIC 9-10

Little River, AL
WETLAND DETERMINATION

Invetigator(s):	KL		Date:	6/24	2008
Site ID:	LIRI 95		Land Use:	FOREST	
UTM: easting	628207		Approximate Size:	0.717	
northing	3807142				
Corwardin Class:	PFO1A		HGM Class:	SLOPE	

VEGETATION

	Dominant Plant Species	Stratum	Indicator
1	Osmunda cinnamomea	Ground	FAW+
2	Athyrium filix-femina	Ground	FAC
3	Acer rubrum	Tree	FAC
4	Arundinaria gigantea	Ground	FACW
5			
6			
7			

Percent of Dominant Species that are OBL, FACW, or FAC? 100%

	Other Plant Species	Stratum	Indicator
1	Sarracenia oreophila	Ground	OBL
2			
3			
4			
5			
6			

SOILS

Profile Description

Depth (inches)			Matrix Color (Munsell Color)		Mottle Color (Munsell Color)		Mottle Abundance/Contrast
1	to	12	10YR	3/2			
	to						
	to						
	to						
	to						
	to						
	to						

Hydric Soil Indicators

	Histosol	x	Gleyed or Low-Chroma Colors
	Histic Epipedon		Concretions/Soft Masses
	Sulfidic Odor		Hydric Criteria Met
	Reducing Conditions		Other

Remarks:

HYDROLOGY

Primary Water Source(s):

	Groundwater Discharge		Overbank Flooding
x	Perched Groundwater	x	Precipitation
	Other		

Wetland Hydrology Indicators:

	Saturated (<12")		Inundated
x	Distinct Drainage Patterns		FAC-Neutral Test
x	Water Marks/Moss Lichen Lines		Other
	Oxidized Rhizospheres		

WETLAND DETERMINATION

Hydrophytic vegetation present?	x	Yes		No
Wetland hydrology present?	x	Yes		No
Hydric soils present?	x	Yes		No

Remarks:

FUNCTIONS AND VALUE ASSESSMENT

	Function/Value:	Rating							
1	Surface Water Storage		H			x	L		N/A
2	Ground Water Discharge to Streams		H		M		L	x	N/A
3	Carbon/Nutrient Export		H		M		L	x	N/A
4	Provide Wildlife Habitat		H		M	x	L		N/A
5	Support WetlandPlants	x	H		M		L		N/A
6	Cultural Value		Yes				No		
7	Research/Scientific	x	Yes				No	pitcher plant present	
8	Economic Value		Yes			x	No		
9	Exotic Present		Yes			x	No		

Remarks: 157-159
PITCHER PLANT PRESENT

Little River, AL
WETLAND DETERMINATION

Invetigator(s):	KR	Date:	6-24	2008
Site ID:	LIRI 96	Land Use:	Forest	
UTM: easting	629042	Approximate Size:	0.094	
northing	3808438			
Corwardin Class:	PFO1A	HGM Class:	Slope	

VEGETATION

	Dominant Plant Species	Stratum	Indicator
1	Sphaagnum spp.	Ground	Unknown
2	Acer rubrum	Tree	FAC
3	Liquidambar styraciflua	Shrub	FAC+
4			
5			
6			
7			

Percent of Dominant Species that are OBL, FACW, or FAC? 66%

	Other Plant Species	Stratum	Indicator
1	Arundinaria gigantea	Ground	FACW
2			
3			
4			
5			
6			

SOILS

Profile Description

Depth (inches)			Matrix Color (Munsell Color)		Mottle Color (Munsell Color)		Mottle Abundance/Contrast
0	to	12	10YR	3/2			
	to						
	to						
	to						
	to						
	to						
	to						

Hydric Soil Indicators

	Histosol	x	Gleyed or Low-Chroma Colors
	Histic Epipedon		Concretions/Soft Masses
	Sulfidic Odor	x	Hydric Criteria Met
	Reducing Conditions		Other

Remarks:

HYDROLOGY

Primary Water Source(s):

	Groundwater Discharge		Overbank Flooding
x	Perched Groundwater	x	Precipitation
	Other		

Wetland Hydrology Indicators:

x	Saturated (<12")		Inundated
x	Distinct Drainage Patterns		FAC-Neutral Test
x	Water Marks/Moss Lichen Lines		Other
	Oxidized Rhizospheres		

WETLAND DETERMINATION

Hydrophytic vegetation present?	x	Yes		No
Wetland hydrology present?	x	Yes		No
Hydric soils present?	x	Yes		No

Remarks:

FUNCTIONS AND VALUE ASSESSMENT

Function/Value:		Rating							
1	Surface Water Storage		H			x	L		N/A
2	Ground Water Discharge to Streams		H		M		L	x	N/A
3	Carbon/Nutrient Export		H		M	x	L		N/A
4	Provide Wildlife Habitat		H		M	x	L		N/A
5	Support WetlandPlants		H		M	x	L		N/A
6	Cultural Value		Yes			x	No		
7	Research/Scientific		Yes			x	No		
8	Economic Value		Yes			x	No		
9	Exotic Present		Yes			x	No		

Remarks:

Little River, AL
WETLAND DETERMINATION

Invetigator(s):	KR	Date:	6-24	2008
Site ID:	LIRI 97	Land Use:	Forest	
UTM: easting	629010	Approximate Size:	0.157	
northing	3808740			
Corwardin Class:	PFO1A	HGM Class:	Slope	

VEGETATION

	Dominant Plant Species	Stratum	Indicator
1	Sphaagnum spp.	Ground	Unknown
2	Acer rubrum	Tree	FAC
3	Acer rubrum	Shrub	FAC
4	Pinus taeda	Tree	FAC
5	Athyrium filix-femina	Ground	FAC
6			
7			

Percent of Dominant Species that are OBL, FACW, or FAC? 80%

	Other Plant Species	Stratum	Indicator
1	Arundinaria gigantea	Ground	FACW
2			
3			
4			
5			
6			

SOILS

Profile Description

Depth (inches)			Matrix Color (Munsell Color)		Mottle Color (Munsell Color)		Mottle Abundance/Contrast
0	to	12	10YR	3/2			
	to						
	to						
	to						
	to						
	to						
	to						

Hydric Soil Indicators

	Histosol	x	Gleyed or Low-Chroma Colors
	Histic Epipedon		Concretions/Soft Masses
	Sulfidic Odor	x	Hydric Criteria Met
	Reducing Conditions		Other

Remarks:

HYDROLOGY

Primary Water Source(s):

	Groundwater Discharge		Overbank Flooding
x	Perched Groundwater	x	Precipitation
	Other		

Wetland Hydrology Indicators:

x	Saturated (<12")		Inundated
x	Distinct Drainage Patterns		FAC-Neutral Test
x	Water Marks/Moss Lichen Lines		Other
	Oxidized Rhizospheres		

WETLAND DETERMINATION

Hydrophytic vegetation present?	x	Yes		No
Wetland hydrology present?	x	Yes		No
Hydric soils present?	x	Yes		No

Remarks:

FUNCTIONS AND VALUE ASSESSMENT

Function/Value:		Rating							
1	Surface Water Storage		H			x	L		N/A
2	Ground Water Discharge to Streams		H		M		L	x	N/A
3	Carbon/Nutrient Export		H		M	x	L		N/A
4	Provide Wildlife Habitat		H		M	x	L		N/A
5	Support WetlandPlants		H		M	x	L		N/A
6	Cultural Value		Yes			x	No		
7	Research/Scientific		Yes			x	No		
8	Economic Value		Yes			x	No		
9	Exotic Present		Yes			x	No		

Remarks:

Little River, AL
WETLAND DETERMINATION

Invetigator(s):	Matthew		Date:	6-24	2008
Site ID:	LIRI 98		Land Use:	Forest	
UTM: easting	628453		Approximate Size:	0.218	
northing	3807526				
Corwardin Class:	PFO1C		HGM Class:	Slope	

VEGETATION

	Dominant Plant Species	Stratum	Indicator
1	Acer rubrum	Tree	FAC
2	Arundinaria gigantea	Ground	FACW
3	Quercus phellos	Tree	FACU
4	Panicum spp.	Ground	Uknown
5			
6			
7			

Percent of Dominant Species that are OBL, FACW, or FAC? 50%

	Other Plant Species	Stratum	Indicator
1			
2			
3			
4			
5			
6			

SOILS

Profile Description

Depth (inches)			Matrix Color (Munsell Color)		Mottle Color (Munsell Color)		Mottle Abundance/Contrast
0	to	12	10YR	4/2			
	to						
	to						
	to						
	to						
	to						
	to						

Hydric Soil Indicators

	Histosol	x	Gleyed or Low-Chroma Colors
	Histic Epipedon		Concretions/Soft Masses
	Sulfidic Odor		Hydric Criteria Met
	Reducing Conditions		Other

Remarks:

sandy soils

HYDROLOGY

Primary Water Source(s):

x	Groundwater Discharge		Overbank Flooding
x	Perched Groundwater	x	Precipitation
	Other		

Wetland Hydrology Indicators:

x	Saturated (<12")		Inundated
x	Distinct Drainage Patterns		FAC-Neutral Test
x	Water Marks/Moss Lichen Lines		Other
	Oxidized Rhizospheres		

WETLAND DETERMINATION

Hydrophytic vegetation present?	x	Yes		No
Wetland hydrology present?	x	Yes		No
Hydric soils present?	x	Yes		No

Remarks:

FUNCTIONS AND VALUE ASSESSMENT

	Function/Value:	Rating							
1	Surface Water Storage		H				L	x	N/A
2	Ground Water Discharge to Streams		H		M	x	L		N/A
3	Carbon/Nutrient Export		H		M		L	x	N/A
4	Provide Wildlife Habitat		H		M	x	L		N/A
5	Support WetlandPlants		H		M	x	L		N/A
6	Cultural Value		Yes			x	No		
7	Research/Scientific		Yes			x	No		
8	Economic Value		Yes			x	No		
9	Exotic Present	x	Yes				No	Lonceria japonica	

Remarks:

Little River, AL
WETLAND DETERMINATION

Invetigator(s):	Matthew		Date:	6-24	2008
Site ID:	LIRI 99		Land Use:	Forest	
UTM: easting	628984		Approximate Size:	0.437	
northing	3809132				
Corwardin Class:	PFO1A		HGM Class:	Slope	

VEGETATION

	Dominant Plant Species	Stratum	Indicator
1	Acer rubrum	Tree	FAC
2	Arundinaria gigantea	Ground	FACW
3	Quercus phellos	Tree	FACU
4	Oxydendrum arboreum	Tree	NI
5	Osmundo cinnamomea	Ground	FACW+
6			
7			

Percent of Dominant Species that are OBL, FACW, or FAC? 60%

	Other Plant Species	Stratum	Indicator
1			
2			
3			
4			
5			
6			

SOILS

Profile Description

Depth (inches)			Matrix Color (Munsell Color)		Mottle Color (Munsell Color)		Mottle Abundance/Contrast
0	to	12	10YR	3/2			
	to						
	to						
	to						
	to						
	to						
	to						

Hydric Soil Indicators

	Histosol	x	Gleyed or Low-Chroma Colors
	Histic Epipedon		Concretions/Soft Masses
	Sulfidic Odor		Hydric Criteria Met
	Reducing Conditions		Other

Remarks:

sandy soils

HYDROLOGY

Primary Water Source(s):

x	Groundwater Discharge		Overbank Flooding
x	Perched Groundwater	x	Precipitation
	Other		

Wetland Hydrology Indicators:

x	Saturated (<12")		Inundated
x	Distinct Drainage Patterns		FAC-Neutral Test
x	Water Marks/Moss Lichen Lines		Other
	Oxidized Rhizospheres		

WETLAND DETERMINATION

Hydrophytic vegetation present?	x	Yes		No
Wetland hydrology present?	x	Yes		No
Hydric soils present?	x	Yes		No

Remarks:

FUNCTIONS AND VALUE ASSESSMENT

	Function/Value:	Rating							
1	Surface Water Storage		H				L	x	N/A
2	Ground Water Discharge to Streams		H		M	x	L		N/A
3	Carbon/Nutrient Export		H		M		L	x	N/A
4	Provide Wildlife Habitat		H		M	x	L		N/A
5	Support WetlandPlants		H		M	x	L		N/A
6	Cultural Value		Yes			x	No		
7	Research/Scientific		Yes			x	No		
8	Economic Value		Yes			x	No		
9	Exotic Present	x	Yes				No		Lonceria japonica

Remarks:

Little River, AL
WETLAND DETERMINATION

Invetigator(s):	JH	Date:	6-25	2008
Site ID:	LIRI 100	Land Use:	Forest	
UTM: easting	630716	Approximate Size:	2.19	
northing	3810246			
Corwardin Class:	PFO1C	HGM Class:	Slope	

VEGETATION

	Dominant Plant Species	Stratum	Indicator
1	Acer rubrum	Tree	FAC
2	Oxydendrum arboreum	Shrub	NI
3	Arythrium filix-femina	Ground	FAC
4	Smilax rotundifolia	Vine	FAC
5	Sphagnum spp.	Ground	Uknown
6			
7			

Percent of Dominant Species that are OBL, FACW, or FAC? 75%

	Other Plant Species	Stratum	Indicator
1	Osmunda cinnamomea	Ground	FACW+
2	Osmunda regalis	Ground	OBL
3	Rhododendron spp.	Shrub	Uknown
4	Arundinaria gigantea	Ground	FACW
5	Lycopus spp.	Ground	Uknown
6			

SOILS

Profile Description

Depth (inches)			Matrix Color (Munsell Color)		Mottle Color (Munsell Color)		Mottle Abundance/Contrast
0	to	12	10YR	4/2			
	to						
	to						
	to						
	to						
	to						
	to						

Hydric Soil Indicators

	Histosol	X	Gleyed or Low-Chroma Colors
	Histic Epipedon	X	Concretions/Soft Masses
	Sulfidic Odor		Hydric Criteria Met
	Reducing Conditions		Other

Remarks:

HYDROLOGY

Primary Water Source(s):

	Groundwater Discharge		Overbank Flooding
x	Perched Groundwater	x	Precipitation
	Other		

Wetland Hydrology Indicators:

	Saturated (<12")		Inundated
x	Distinct Drainage Patterns		FAC-Neutral Test
x	Water Marks/Moss Lichen Lines		Other
	Oxidized Rhizospheres		

WETLAND DETERMINATION

Hydrophytic vegetation present?	x	Yes		No
Wetland hydrology present?	x	Yes		No
Hydric soils present?	x	Yes		No

Remarks:

FUNCTIONS AND VALUE ASSESSMENT

Function/Value:		Rating							
1	Surface Water Storage		H				x	L		N/A
2	Ground Water Discharge to Streams		H		M			L	x	N/A
3	Carbon/Nutrient Export		H		M			L	x	N/A
4	Provide Wildlife Habitat		H		M		x	L		N/A
5	Support WetlandPlants	x	H		M			L		N/A
6	Cultural Value	x	Yes					No	Larger than average size	
7	Research/Scientific		Yes				x	No		
8	Economic Value		Yes				x	No		
9	Exotic Present		Yes				x	No		

Remarks: 161/162

Little River, AL
WETLAND DETERMINATION

Invetigator(s):	KL		Date:	6/25	2008
Site ID:	LIRI 101		Land Use:	FOREST	
UTM: easting	630462		Approximate Size:	0.695	
northing	3809988				
Corwardin Class:	PFO1A		HGM Class:	SLOPE	

VEGETATION

	Dominant Plant Species	Stratum	Indicator
1	Nyssa sylvatica	Tree	FAC
2	Quercus alba	Tree	FACU
3	Sphagnum spp.	Ground	Uknown
4	Osmunda cinnamomea	Ground	FACW+
5	Athyrium filix-femina	Ground	FAC
6			
7			

Percent of Dominant Species that are OBL, FACW, or FAC? 50%

	Other Plant Species	Stratum	Indicator
1			
2			
3			
4			
5			
6			

SOILS

Profile Description

Depth (inches)			Matrix Color (Munsell Color)		Mottle Color (Munsell Color)		Mottle Abundance/Contrast
1	to	12	10YR	4/2			
	to						
	to						
	to						
	to						
	to						
	to						

Hydric Soil Indicators

	Histosol	x	Gleyed or Low-Chroma Colors
	Histic Epipedon		Concretions/Soft Masses
	Sulfidic Odor		Hydric Criteria Met
	Reducing Conditions		Other

Remarks:

HYDROLOGY

Primary Water Source(s):

	Groundwater Discharge		Overbank Flooding
	Perched Groundwater	X	Precipitation
	Other		

Wetland Hydrology Indicators:

X	Saturated (<12")		Inundated
X	Distinct Drainage Patterns		FAC-Neutral Test
	Water Marks/Moss Lichen Lines		Other
	Oxidized Rhizospheres		

WETLAND DETERMINATION

Hydrophytic vegetation present?	X	Yes		No
Wetland hydrology present?	X	Yes		No
Hydric soils present?	X	Yes		No

Remarks:

FUNCTIONS AND VALUE ASSESSMENT

	Function/Value:	Rating							
1	Surface Water Storage		H				X	L		N/A
2	Ground Water Discharge to Streams		H		M		X	L		N/A
3	Carbon/Nutrient Export		H		M		X	L		N/A
4	Provide Wildlife Habitat		H	X	M			L		N/A
5	Support WetlandPlants		H	X	M			L		N/A
6	Cultural Value	x	Yes					No		Larger than average size
7	Research/Scientific		Yes				X	No		
8	Economic Value		Yes				X	No		
9	Exotic Present		Yes				X	No		

Remarks:

PIC 11-12

Little River, AL
WETLAND DETERMINATION

Invetigator(s):	KL		Date:	6/25	2008
Site ID:	LIRI 102		Land Use:	FOREST	
UTM: easting	630198		Approximate Size:	7.21	
northing	3809725				
Corwardin Class:	PFO1E		HGM Class:	SLOPE	

VEGETATION

	Dominant Plant Species	Stratum	Indicator
1	Nyssa sylvatica	Tree	FAC
2	Quercus alba	Tree	FACU
3	Sphagnum spp.	Ground	Uknown
4	Athyrium filix-femina	Ground	FAC
5	Typha latifolia	Ground	OBL
6	Scripus cyperinus	Ground	OBL
7	Acer rubrum	Tree	FAC

Percent of Dominant Species that are OBL, FACW, or FAC? 71%

	Other Plant Species	Stratum	Indicator
1	Quercus phellos	Tree	FACW-
2	Cephalanthus occidentalis	Shrub	OBL
3			
4			
5			
6			

SOILS

Profile Description

Depth (inches)			Matrix Color (Munsell Color)		Mottle Color (Munsell Color)		Mottle Abundance/Contrast
1	to	12	10YR	5/1			
	to						
	to						
	to						
	to						
	to						
	to						

Hydric Soil Indicators

	Histosol	x	Gleyed or Low-Chroma Colors
	Histic Epipedon		Concretions/Soft Masses
x	Sulfidic Odor		Hydric Criteria Met
	Reducing Conditions		Other

Remarks:

HYDROLOGY

Primary Water Source(s):

	Groundwater Discharge		Overbank Flooding
x	Perched Groundwater	x	Precipitation
	Other		

Wetland Hydrology Indicators:

	Saturated (<12")		Inundated
x	Distinct Drainage Patterns		FAC-Neutral Test
x	Water Marks/Moss Lichen Lines		Other
	Oxidized Rhizospheres		

WETLAND DETERMINATION

Hydrophytic vegetation present?	x	Yes		No
Wetland hydrology present?	x	Yes		No
Hydric soils present?	x	Yes		No

Remarks:

FUNCTIONS AND VALUE ASSESSMENT

Function/Value:		Rating							
1	Surface Water Storage	x	H				L		N/A
2	Ground Water Discharge to Streams		H		M		L	x	N/A
3	Carbon/Nutrient Export		H		M		L	x	N/A
4	Provide Wildlife Habitat	x	H		M		L		N/A
5	Support WetlandPlants	x	H		M		L		N/A
6	Cultural Value	x	Yes				No		Larger than average size
7	Research/Scientific	x	Yes				No		Beaver pond
8	Economic Value		Yes			x	No		
9	Exotic Present	x	Yes				No		Lonceria japonica

Remarks: 163/164
HEAVY SEDIMENT WASH
BEAVER POND
MG PIC 82/83
FISH PRESENT

Little River, AL
WETLAND DETERMINATION

Invetigator(s):	KR	Date:	6-25	2008
Site ID:	LIRI 103	Land Use:	Forest	
UTM: easting	629846	Approximate Size:	0.215	
northing	3809846			
Corwardin Class:	PEM1A	HGM Class:	Slope	

VEGETATION

	Dominant Plant Species	Stratum	Indicator
1	Athyrium filix-femina	Ground	FAC
2	Acer rubrum	Tree	FAC
3	Liquidambar styraciflua	Shrub	FAC+
4	Nyssa sylvatica	Shrub	FAC
5	Carex spp.	Ground	Unknown
6	Toxidwndron radicans	Ground	FAC
7			

Percent of Dominant Species that are OBL, FACW, or FAC? 100%

	Other Plant Species	Stratum	Indicator
1	Dioscorea viliosa	Ground	FAC
2	Osmunda cinnamomea	Ground	FACW+
3	Hexastylis spp.	Ground	Unknown
4	Amianthium muscitoxicum	Ground	FAC
5			
6			

SOILS

Profile Description

Depth (inches)			Matrix Color (Munsell Color)		Mottle Color (Munsell Color)		Mottle Abundance/Contrast
0	to	12	10YR	4/2	10YR	4/6	5%
	to						
	to						
	to						
	to						
	to						
	to						

Hydric Soil Indicators

	Histosol	x	Gleyed or Low-Chroma Colors
	Histic Epipedon		Concretions/Soft Masses
	Sulfidic Odor	x	Hydric Criteria Met
	Reducing Conditions		Other

Remarks:

HYDROLOGY

Primary Water Source(s):

	Groundwater Discharge		Overbank Flooding
x	Perched Groundwater	x	Precipitation
	Other		

Wetland Hydrology Indicators:

x	Saturated (<12")		Inundated
x	Distinct Drainage Patterns		FAC-Neutral Test
x	Water Marks/Moss Lichen Lines		Other
	Oxidized Rhizospheres		

WETLAND DETERMINATION

Hydrophytic vegetation present?	x	Yes		No
Wetland hydrology present?	x	Yes		No
Hydric soils present?	x	Yes		No

Remarks:

FUNCTIONS AND VALUE ASSESSMENT

	Function/Value:	Rating							
1	Surface Water Storage		H			x	L		N/A
2	Ground Water Discharge to Streams		H		M		L	x	N/A
3	Carbon/Nutrient Export		H	x	M		L		N/A
4	Provide Wildlife Habitat		H		M	x	L		N/A
5	Support WetlandPlants		H	x	M		L		N/A
6	Cultural Value		Yes			x	No		
7	Research/Scientific		Yes			x	No		
8	Economic Value		Yes			x	No		
9	Exotic Present		Yes			x	No		

Remarks:

Little River, AL
WETLAND DETERMINATION

Invetigator(s):	Matthew		Date:	6-25	2008
Site ID:	LIRI 104		Land Use:	Forest	
UTM: easting	629598		Approximate Size:	3.82	
northing	3809616				
Corwardin Class:	PFO1A		HGM Class:	Slope	

VEGETATION

	Dominant Plant Species	Stratum	Indicator
1	Acer rubrum	Tree	FAC
2	Athyrium filix-femina	Ground	FAC
3	Quercus phellos	Tree	FACU
4	Carex spp.	Ground	Unkown
5			
6			
7			

Percent of Dominant Species that are OBL, FACW, or FAC? 80%

	Other Plant Species	Stratum	Indicator
1	Microstengium vimineum	Ground	FAC+
2			
3			
4			
5			
6			

SOILS

Profile Description

Depth (inches)			Matrix Color (Munsell Color)		Mottle Color (Munsell Color)		Mottle Abundance/Contrast
0	to	12	10YR	3/1			
	to						
	to						
	to						
	to						
	to						
	to						

Hydric Soil Indicators

	Histosol	x	Gleyed or Low-Chroma Colors
	Histic Epipedon		Concretions/Soft Masses
	Sulfidic Odor		Hydric Criteria Met
	Reducing Conditions		Other

Remarks:

HYDROLOGY

Primary Water Source(s):

x	Groundwater Discharge		Overbank Flooding
x	Perched Groundwater	x	Precipitation
	Other		

Wetland Hydrology Indicators:

x	Saturated (<12")		Inundated
x	Distinct Drainage Patterns		FAC-Neutral Test
x	Water Marks/Moss Lichen Lines		Other
	Oxidized Rhizospheres		

WETLAND DETERMINATION

Hydrophytic vegetation present?	x	Yes		No
Wetland hydrology present?	x	Yes		No
Hydric soils present?	x	Yes		No

Remarks:

FUNCTIONS AND VALUE ASSESSMENT

	Function/Value:	Rating						
1	Surface Water Storage	x	H				L	N/A
2	Ground Water Discharge to Streams	x	H		M		L	N/A
3	Carbon/Nutrient Export		H	x	M		L	N/A
4	Provide Wildlife Habitat	x	H		M		L	N/A
5	Support WetlandPlants	x	H		M		L	N/A
6	Cultural Value	x	Yes				No	larger than average size
7	Research/Scientific	x	Yes				No	Beaver pond
8	Economic Value	x	Yes				No	Research
9	Exotic Present	x	Yes				No	Lonceria japonica

Remarks:

pic 84-85

Beaver and fish present

Little River, AL
WETLAND DETERMINATION

Invetigator(s):	KL		Date:	6/26	2008
Site ID:	LIRI 105		Land Use:	CREEK BANK	
UTM: easting	630367		Approximate Size:	0.247	
northing	3810891				
Corwardin Class:	PFO1C		HGM Class:	SLOPE	

VEGETATION

	Dominant Plant Species	Stratum	Indicator
1	Alnus serrulata	Shrub	FACW+
2	Acer rubrum	Shrub	FAC
3	Impatiens capensis	Ground	FACW
4	Rhyncospora spp.	Ground	Uknown
5	Carex spp.	Ground	Uknown
6	Athyrium filix-femina	Ground	FAC
7			

Percent of Dominant Species that are OBL, FACW, or FAC? 60%

	Other Plant Species	Stratum	Indicator
1			
2			
3			
4			
5			
6			

SOILS

Profile Description

Depth (inches)			Matrix Color (Munsell Color)		Mottle Color (Munsell Color)		Mottle Abundance/Contrast
1	to	12	10YR	4/1			
	to						
	to						
	to						
	to						
	to						
	to						

Hydric Soil Indicators

	Histosol	x	Gleyed or Low-Chroma Colors
	Histic Epipedon		Concretions/Soft Masses
	Sulfidic Odor		Hydric Criteria Met
	Reducing Conditions		Other

Remarks:

HYDROLOGY

Primary Water Source(s):

	Groundwater Discharge	x	Overbank Flooding
x	Perched Groundwater	x	Precipitation
	Other		

Wetland Hydrology Indicators:

x	Saturated (<12")		Inundated
x	Distinct Drainage Patterns		FAC-Neutral Test
x	Water Marks/Moss Lichen Lines		Other
	Oxidized Rhizospheres		

WETLAND DETERMINATION

Hydrophytic vegetation present?	x	Yes		No
Wetland hydrology present?	x	Yes		No
Hydric soils present?	x	Yes		No

Remarks:

FUNCTIONS AND VALUE ASSESSMENT

Function/Value:		Rating							
1	Surface Water Storage		H				x	L		N/A
2	Ground Water Discharge to Streams		H		M			L	x	N/A
3	Carbon/Nutrient Export		H		M			L	x	N/A
4	Provide Wildlife Habitat		H	x	M			L		N/A
5	Support WetlandPlants	x	H		M			L		N/A
6	Cultural Value		Yes				x	No		
7	Research/Scientific		Yes				x	No		
8	Economic Value		Yes				x	No		
9	Exotic Present		Yes				x	No		

Remarks: 165/166

Little River, AL
WETLAND DETERMINATION

Invetigator(s):	KR	Date:	6-26	2008
Site ID:	LIRI 106	Land Use:	Forest	
UTM: easting	631099	Approximate Size:	0.169	
northing	3810158			
Corwardin Class:	PFO1A	HGM Class:	Slope	

VEGETATION

	Dominant Plant Species	Stratum	Indicator
1	Athyrium filix-femina	Ground	FAC
2	Acer rubrum	Tree	FAC
3	Liquidambar styraciflua	Shrub	FAC+
4	Nyssa sylvatica	Shrub	FAC
5	Osmunda cinnamomea	Ground	FACW+
6	Nyssa sylvatica	Tree	FAC
7			

Percent of Dominant Species that are OBL, FACW, or FAC? 100%

	Other Plant Species	Stratum	Indicator
1			
2			
3			
4			
5			
6			

SOILS

Profile Description

Depth (inches)			Matrix Color (Munsell Color)		Mottle Color (Munsell Color)		Mottle Abundance/Contrast
0	to	3	10YR	5/2	10YR	4/6	5%
3	to	6	10YR	3/2			
6	to	9	10YR	4/3	10YR	4/8	20%
9	to	12	10YR	4/6	10YR	4/8	20%
	to						
	to						
	to						

Hydric Soil Indicators

	Histosol	x	Gleyed or Low-Chroma Colors
	Histic Epipedon		Concretions/Soft Masses
	Sulfidic Odor	x	Hydric Criteria Met
	Reducing Conditions		Other

Remarks:

HYDROLOGY

Primary Water Source(s):

	Groundwater Discharge		Overbank Flooding
x	Perched Groundwater	x	Precipitation
	Other		

Wetland Hydrology Indicators:

x	Saturated (<12")		Inundated
x	Distinct Drainage Patterns		FAC-Neutral Test
x	Water Marks/Moss Lichen Lines		Other
x	Oxidized Rhizospheres		

WETLAND DETERMINATION

Hydrophytic vegetation present?	x	Yes		No
Wetland hydrology present?	x	Yes		No
Hydric soils present?	x	Yes		No

Remarks:

FUNCTIONS AND VALUE ASSESSMENT

Function/Value:		Rating							
1	Surface Water Storage		H				x	L		N/A
2	Ground Water Discharge to Streams		H		M			L	x	N/A
3	Carbon/Nutrient Export		H	x	M			L		N/A
4	Provide Wildlife Habitat		H		M		x	L		N/A
5	Support WetlandPlants		H	x	M			L		N/A
6	Cultural Value		Yes				x	No		
7	Research/Scientific		Yes				x	No		
8	Economic Value		Yes				x	No		
9	Exotic Present		Yes				x	No		

Remarks:

Little River, AL
WETLAND DETERMINATION

Invetigator(s):	EW		Date:	6-27	2008
Site ID:	LIRI 107		Land Use:	Forested drainage	
UTM: easting	631425		Approximate Size:	1.349	
northing	3810309				
Corwardin Class:	PFO1C		HGM Class:	slope	

VEGETATION

	Dominant Plant Species	Stratum	Indicator
1	Athyrium filix-femina	Ground	FAC
2	Acer rubrum	Tree	FAC
3	Carpinus caroliniana	Shrub	FAC
4	Carex spp.	Ground	Unknown
5			
6			
7			

Percent of Dominant Species that are OBL, FACW, or FAC? 80%

	Other Plant Species	Stratum	Indicator
1	Quercus alba	Tree	FACU
2			
3			
4			
5			
6			

SOILS

Profile Description

Depth (inches)			Matrix Color (Munsell Color)		Mottle Color (Munsell Color)		Mottle Abundance/Contrast
0	to	12	10YR	4/2			
	to						
	to						
	to						
	to						
	to						
	to						

Hydric Soil Indicators

	Histosol	X	Gleyed or Low-Chroma Colors
	Histic Epipedon		Concretions/Soft Masses
	Sulfidic Odor		Hydric Criteria Met
	Reducing Conditions		Other

Remarks:

HYDROLOGY

Primary Water Source(s):

	Groundwater Discharge	X	Overbank Flooding
X	Perched Groundwater		Precipitation
	Other		

Wetland Hydrology Indicators:

X	Saturated (<12")	X	Inundated
X	Distinct Drainage Patterns		FAC-Neutral Test
X	Water Marks/Moss Lichen Lines		Other
	Oxidized Rhizospheres		

WETLAND DETERMINATION

Hydrophytic vegetation present?	X	Yes		No
Wetland hydrology present?	X	Yes		No
Hydric soils present?	X	Yes		No

Remarks:

FUNCTIONS AND VALUE ASSESSMENT

Function/Value:		Rating							
1	Surface Water Storage	X	H				L		N/A
2	Ground Water Discharge to Streams	X	H		M		L		N/A
3	Carbon/Nutrient Export	X	H		M		L		N/A
4	Provide Wildlife Habitat		H	X	M		L		N/A
5	Support WetlandPlants		H	X	M		L		N/A
6	Cultural Value	x	Yes				No		Larger than average size
7	Research/Scientific		Yes			X	No		
8	Economic Value		Yes			X	No		
9	Exotic Present	X	Yes				No		

Remarks:

ew pic 62-64

little River, AL
WETLAND DETERMINATION

Invetigator(s):	MG	Date:	8-5	2008
Site ID:	LIRI 108	Land Use:	Forest	
UTM: easting	631530	Approximate Size:	0.85	
northing	3813079			
Corwardin Class:	PFO1A	HGM Class:	Slope	

VEGETATION

	Dominant Plant Species	Stratum	Indicator
1	Athyrium filix-femina	Ground	FAC
2	Quercus alba	Tree	FACU
3	Acer rubrum	Tree	FAC
4	Arundinaria gigantea	Ground	FACW
5			
6			
7			

Percent of Dominant Species that are OBL, FACW, or FAC? 60%

	Other Plant Species	Stratum	Indicator
1			
2			
3			
4			
5			
6			

SOILS

Profile Description

Depth (inches)			Matrix Color (Munsell Color)		Mottle Color (Munsell Color)		Mottle Abundance/Contrast
0	to	3	10YR	4/3			
3	to	12	10YR	4/2			
	to						
	to						
	to						
	to						
	to						

Hydric Soil Indicators

	Histosol	x	Gleyed or Low-Chroma Colors
	Histic Epipedon		Concretions/Soft Masses
	Sulfidic Odor		Hydric Criteria Met
	Reducing Conditions		Other

Remarks:

HYDROLOGY

Primary Water Source(s):

x	Groundwater Discharge		Overbank Flooding
	Perched Groundwater	x	Precipitation
	Other		

Wetland Hydrology Indicators:

	Saturated (<12")		Inundated
x	Distinct Drainage Patterns		FAC-Neutral Test
x	Water Marks/Moss Lichen Lines		Other
	Oxidized Rhizospheres		

WETLAND DETERMINATION

Hydrophytic vegetation present?	x	Yes		No
Wetland hydrology present?	x	Yes		No
Hydric soils present?	x	Yes		No

Remarks:

FUNCTIONS AND VALUE ASSESSMENT

Function/Value:		Rating							
1	Surface Water Storage		H			x	L		N/A
2	Ground Water Discharge to Streams		H		M		L	x	N/A
3	Carbon/Nutrient Export		H		M		L	x	N/A
4	Provide Wildlife Habitat		H		M	x	L		N/A
5	Support WetlandPlants	x	H		M		L		N/A
6	Cultural Value		Yes				No		
7	Research/Scientific	x	Yes				No		
8	Economic Value		Yes			x	No		
9	Exotic Present		Yes			x	No		

Remarks:

PIC 8-9

Little River, AL
WETLAND DETERMINATION

Invetigator(s):	MG	Date:	8-6	2008
Site ID:	LIRI 109	Land Use:	Forest	
UTM: easting	631719	Approximate Size:	0.32	
northing	3811704			
Corwardin Class:	PFO1A	HGM Class:	Slope	

VEGETATION

	Dominant Plant Species	Stratum	Indicator
1	Athyrium filix-femina	Ground	FAC
2	Sphagnum spp.	Ground	Unknown
3	Acer rubrum	Tree	FAC
4			
5			
6			
7			

Percent of Dominant Species that are OBL, FACW, or FAC? 66%

	Other Plant Species	Stratum	Indicator
1			
2			
3			
4			
5			
6			

SOILS

Profile Description

Depth (inches)			Matrix Color (Munsell Color)		Mottle Color (Munsell Color)		Mottle Abundance/Contrast
0	to	3	10YR	4/3			
3	to	12	10YR	4/2			
	to						
	to						
	to						
	to						
	to						

Hydric Soil Indicators

	Histosol	x	Gleyed or Low-Chroma Colors
	Histic Epipedon		Concretions/Soft Masses
	Sulfidic Odor		Hydric Criteria Met
	Reducing Conditions		Other

Remarks:

HYDROLOGY

Primary Water Source(s):

x	Groundwater Discharge		Overbank Flooding
	Perched Groundwater	x	Precipitation
	Other		

Wetland Hydrology Indicators:

	Saturated (<12")		Inundated
x	Distinct Drainage Patterns		FAC-Neutral Test
x	Water Marks/Moss Lichen Lines		Other
	Oxidized Rhizospheres		

WETLAND DETERMINATION

Hydrophytic vegetation present?	x	Yes		No
Wetland hydrology present?	x	Yes		No
Hydric soils present?	x	Yes		No

Remarks:

FUNCTIONS AND VALUE ASSESSMENT

	Function/Value:	Rating							
1	Surface Water Storage		H			x	L		N/A
2	Ground Water Discharge to Streams		H		M		L	x	N/A
3	Carbon/Nutrient Export		H		M		L	x	N/A
4	Provide Wildlife Habitat		H		M	x	L		N/A
5	Support WetlandPlants	x	H		M		L		N/A
6	Cultural Value		Yes			x	No		
7	Research/Scientific	x	Yes				No	Herpetological research	
8	Economic Value		Yes			x	No		
9	Exotic Present		Yes			x	No		

Remarks:

PIC 8-9

Little River, AL
WETLAND DETERMINATION

Invetigator(s):	EW	Date:	8-7	2008
Site ID:	LIRI 110	Land Use:	Forest	
UTM: easting	630321	Approximate Size:	0.097	
northing	3813445			
Corwardin Class:	PFO1A	HGM Class:	Slope	

VEGETATION

	Dominant Plant Species	Stratum	Indicator
1	Athyrium filix-femina	Ground	FAC
2	Acer rubrum	Tree	FAC
3	Liquidambar styraciflua	Shrub	FAC+
4	Liriodendron tulipifera	Tree	FAC
5	Carex spp.	Ground	Unknown
6			
7			

Percent of Dominant Species that are OBL, FACW, or FAC? 100%

	Other Plant Species	Stratum	Indicator
1	Quercus alba	Tree	FAC
2			
3			
4			
5			
6			

SOILS

Profile Description

Depth (inches)			Matrix Color (Munsell Color)		Mottle Color (Munsell Color)		Mottle Abundance/Contrast
0	to	6	10YR	5/3			
6	to	9	10YR	5/3	10YR	6/2	30%
9	to	12	10YR	6/2	10YR	5/3	10%
	to						
	to						
	to						
	to						

Hydric Soil Indicators

	Histosol	x	Gleyed or Low-Chroma Colors
	Histic Epipedon	x	Concretions/Soft Masses
	Sulfidic Odor		Hydric Criteria Met
	Reducing Conditions		Other

Remarks:

HYDROLOGY

Primary Water Source(s):

	Groundwater Discharge	x	Overbank Flooding
	Perched Groundwater	x	Precipitation
x	Other runoff		

Wetland Hydrology Indicators:

	Saturated (<12")		Inundated
x	Distinct Drainage Patterns		FAC-Neutral Test
x	Water Marks/Moss Lichen Lines		Other
x	Oxidized Rhizospheres		

WETLAND DETERMINATION

Hydrophytic vegetation present?	x	Yes		No
Wetland hydrology present?	x	Yes		No
Hydric soils present?	x	Yes		No

Remarks:

FUNCTIONS AND VALUE ASSESSMENT

Function/Value:		Rating							
1	Surface Water Storage		H		M		L	x	N/A
2	Ground Water Discharge to Streams	x	H		M		L		N/A
3	Carbon/Nutrient Export	x	H		M		L		N/A
4	Provide Wildlife Habitat		H		M	x	L		N/A
5	Support WetlandPlants		H		M	x	L		N/A
6	Cultural Value		Yes			x	No		
7	Research/Scientific		Yes			x	No		
8	Economic Value		Yes			x	No		
9	Exotic Present		Yes			x	No		

Remarks:

Little River, AL
WETLAND DETERMINATION

Invetigator(s):	KL	Date:	8/7	2008
Site ID:	LIRI 111	Land Use:		Streamside
UTM: easting	630975	Approximate Size:		0.969
northing	3814057			
Corwardin Class:	PFO1A	HGM Class:		SLOPE

VEGETATION

	Dominant Plant Species	Stratum	Indicator
1	Athyrium filix-femina	Ground	FAC
2	Acer rubrum	Tree	FAC
3	Liquidambar strycaflua	Tree	FAC+
4	Liriodendron tulipifera	Tree	FAC
5			
6			
7			

Percent of Dominant Species that are OBL, FACW, or FAC? 100%

	Other Plant Species	Stratum	Indicator
1			
2			
3			
4			
5			
6			

SOILS

Profile Description

Depth (inches)			Matrix Color (Munsell Color)		Mottle Color (Munsell Color)		Mottle Abundance/Contrast
1	to	10	10YR	4/4			
10	to	12	10YR	4/2			
	to						
	to						
	to						
	to						
	to						

Hydric Soil Indicators

	Histosol	x	Gleyed or Low-Chroma Colors
	Histic Epipedon		Concretions/Soft Masses
	Sulfidic Odor		Hydric Criteria Met
	Reducing Conditions		Other

Remarks:

HYDROLOGY

Primary Water Source(s):

x	Groundwater Discharge	x	Overbank Flooding
x	Perched Groundwater	x	Precipitation
	Other		

Wetland Hydrology Indicators:

	Saturated (<12")		Inundated
x	Distinct Drainage Patterns		FAC-Neutral Test
x	Water Marks/Moss Lichen Lines		Other
	Oxidized Rhizospheres		

WETLAND DETERMINATION

Hydrophytic vegetation present?	x	Yes		No
Wetland hydrology present?	x	Yes		No
Hydric soils present?	x	Yes		No

Remarks:

FUNCTIONS AND VALUE ASSESSMENT

Function/Value:		Rating							
1	Surface Water Storage		H				x	L		N/A
2	Ground Water Discharge to Streams		H		M			L	x	N/A
3	Carbon/Nutrient Export		H		M			L	x	N/A
4	Provide Wildlife Habitat		H	x	M			L		N/A
5	Support WetlandPlants		H	x	M			L		N/A
6	Cultural Value		Yes				x	No		
7	Research/Scientific		Yes				x	No		
8	Economic Value		Yes				x	No		
9	Exotic Present	x	Yes					No	Microstegium vimineum	

Remarks: 239/240
size;

Litte River, AL
WETLAND DETERMINATION

Invetigator(s):	KL		Date:	8/7	2008
Site ID:	LIRI 112		Land Use:		OLD ROAD
UTM: easting	631007		Approximate Size:		0.293
northing	3813539				
Corwardin Class:	PFO1A		HGM Class:		SLOPE

VEGETATION

	Dominant Plant Species	Stratum	Indicator
1	Osmunda cinnamomea	Ground	FACW+
2	Acer rubrum	Tree	FAC
3	Liquidambar strycaflui	Tree	FAC+
4	Liriodendron tulipifera	Tree	FAC
5			
6			
7			

Percent of Dominant Species that are OBL, FACW, or FAC? 100%

	Other Plant Species	Stratum	Indicator
1			
2			
3			
4			
5			
6			

SOILS

Profile Description

Depth (inches)			Matrix Color (Munsell Color)		Mottle Color (Munsell Color)		Mottle Abundance/Contrast
1	to	12	10YR	4/2	10YR	5/6	30%
	to						
	to						
	to						
	to						
	to						
	to						

Hydric Soil Indicators

	Histosol	x	Gleyed or Low-Chroma Colors
	Histic Epipedon		Concretions/Soft Masses
	Sulfidic Odor		Hydric Criteria Met
	Reducing Conditions		Other

Remarks:

HYDROLOGY

Primary Water Source(s):

x	Groundwater Discharge	x	Overbank Flooding
x	Perched Groundwater	x	Precipitation
	Other		

Wetland Hydrology Indicators:

x	Saturated (<12")	x	Inundated
x	Distinct Drainage Patterns		FAC-Neutral Test
x	Water Marks/Moss Lichen Lines		Other
	Oxidized Rhizospheres		

WETLAND DETERMINATION

Hydrophytic vegetation present?	x	Yes		No
Wetland hydrology present?	x	Yes		No
Hydric soils present?	x	Yes		No

Remarks:

FUNCTIONS AND VALUE ASSESSMENT

	Function/Value:	Rating							
1	Surface Water Storage		H			x	L		N/A
2	Ground Water Discharge to Streams		H		M		L	x	N/A
3	Carbon/Nutrient Export		H		M		L	x	N/A
4	Provide Wildlife Habitat		H	x	M		L		N/A
5	Support WetlandPlants		H	x	M		L		N/A
6	Cultural Value		Yes			x	No		
7	Research/Scientific		Yes			x	No		
8	Economic Value		Yes			x	No		
9	Exotic Present	x	Yes				No		Microstegium vimineum

Remarks: 241/242

Little River, AL
WETLAND DETERMINATION

Invetigator(s):	MG/KL	Date:	8-7	2008
Site ID:	LIRI 113	Land Use:	Forest	
UTM: easting	630282	Approximate Size:	0.47	
northing	3813772			
Corwardin Class:	PFO1A	HGM Class:	Depression	

VEGETATION

	Dominant Plant Species	Stratum	Indicator
1	Liquidambar styraciflua	Tree	FAC+
2	Pinus taeda	Tree	FAC
3	Carex spp.	Ground	Unknown
4	Aythium filix-femina	Ground	FAC
5	Acer rubrum	Tree	FAC
6			
7			

Percent of Dominant Species that are OBL, FACW, or FAC? 75%

	Other Plant Species	Stratum	Indicator
1			
2			
3			
4			
5			
6			

SOILS

Profile Description

Depth (inches)			Matrix Color (Munsell Color)		Mottle Color (Munsell Color)		Mottle Abundance/Contrast
0	to	6	10YR	5/3			
6	to	12	10YR	4/1			
	to						
	to						
	to						
	to						
	to						

Hydric Soil Indicators

	Histosol	x	Gleyed or Low-Chroma Colors
	Histic Epipedon		Concretions/Soft Masses
	Sulfidic Odor		Hydric Criteria Met
	Reducing Conditions		Other

Remarks:

HYDROLOGY

Primary Water Source(s):

	Groundwater Discharge		Overbank Flooding
x	Perched Groundwater	x	Precipitation
	Other		

Wetland Hydrology Indicators:

	Saturated (<12")		Inundated
x	Distinct Drainage Patterns		FAC-Neutral Test
x	Water Marks/Moss Lichen Lines		Other
	Oxidized Rhizospheres		

WETLAND DETERMINATION

Hydrophytic vegetation present?	x	Yes		No
Wetland hydrology present?	x	Yes		No
Hydric soils present?	x	Yes		No

Remarks:

FUNCTIONS AND VALUE ASSESSMENT

Function/Value:		Rating								
1	Surface Water Storage		H				L	x	N/A	
2	Ground Water Discharge to Streams		H		M		L	x	N/A	
3	Carbon/Nutrient Export		H		M		L	x	N/A	
4	Provide Wildlife Habitat		H		M	x	L		N/A	herps
5	Support WetlandPlants		H		M	x	L		N/A	
6	Cultural Value		Yes			x	No			
7	Research/Scientific		Yes			x	No			
8	Economic Value		Yes			x	No			
9	Exotic Present		Yes			x	No			

Remarks:

pic 12-13

Little River, AL
WETLAND DETERMINATION

Invetigator(s):	Dan Twyman	Date:	9/7	2007
Site ID:	LIRI 114	Land Use:	Forest	
UTM: easting	628602	Approximate Size:	0.049	
northing	3809530			
Corwardin Class:	PFO1A	HGM Class:	Slope	

VEGETATION

	Dominant Plant Species	Stratum	Indicator
1	Osmunda cinnamomea	Ground	FACW
2	Osmunda regalis	Ground	OBL
3	Vitis spp.	Vine	Unknown
4	Acer rubrum	Shrub	FAC
5	Liquidambar styraiflua	Shrub	FAC+
6	Nyssa sylvatica	Tree	FAC
7			

Percent of Dominant Species that are OBL, FACW, or FAC? 100%

	Other Plant Species	Stratum	Indicator
1	Pinus taeda	Tree	FAC
2	Liriodendron tulipifera	Shrub	FAC
3			
4			
5			
6			

SOILS

Profile Description

Depth (inches)			Matrix Color (Munsell Color)		Mottle Color (Munsell Color)		Mottle Abundance/Contrast
0	to	4	10YR	3/1			
4	to	8	10YR	4/1			
8	to	12	10YR	5/1			
	to						
	to						
	to						
	to						

Hydric Soil Indicators

	Histosol	x	Gleyed or Low-Chroma Colors
	Histic Epipedon		Concretions/Soft Masses
	Sulfidic Odor		Hydric Criteria Met
	Reducing Conditions		Other

Remarks:

HYDROLOGY

Primary Water Source(s):

	Groundwater Discharge	x	Overbank Flooding
	Perched Groundwater	x	Precipitation
x	Other		

Wetland Hydrology Indicators:

	Saturated (<12")		Inundated
x	Distinct Drainage Patterns		FAC-Neutral Test
x	Water Marks/Moss Lichen Lines		Other
	Oxidized Rhizospheres		

WETLAND DETERMINATION

Hydrophytic vegetation present?	x	Yes		No
Wetland hydrology present?	x	Yes		No
Hydric soils present?	x	Yes		No

Remarks:

FUNCTIONS AND VALUE ASSESSMENT

Function/Value:		Rating							
1	Surface Water Storage		H			x	L		N/A	
2	Ground Water Discharge to Streams		H		M	x	L		N/A	
3	Carbon/Nutrient Export		H		M	x	L		N/A	
4	Provide Wildlife Habitat		H	x	M		L		N/A	herps
5	Support WetlandPlants		H		M		L		N/A	
6	Cultural Value		Yes			x	No			
7	Research/Scientific		Yes			x	No			
8	Economic Value		Yes			x	No			
9	Exotic Present		Yes			x	No			

Remarks:

Little River, AL
WETLAND DETERMINATION

Invetigator(s):	Dan Twyman	Date:	9/8	2007
Site ID:	LIRI 115	Land Use:	Forest	
UTM: easting	628898	Approximate Size:	0.018	
northing	3809484			
Corwardin Class:	PFO1A	HGM Class:	Slope	

VEGETATION

	Dominant Plant Species	Stratum	Indicator
1	Acer rubrum	Tree/Shrub	FAC
2	Nyssa sylvatica	Shrub	FAC
3	Chasmanthium sessiliflorum	Ground	FAC
4			
5			
6			
7			

Percent of Dominant Species that are OBL, FACW, or FAC? 100%

	Other Plant Species	Stratum	Indicator
1	Sphagnum spp.	Ground	Unknown
2			
3			
4			
5			
6			

SOILS

Profile Description

Depth (inches)			Matrix Color (Munsell Color)		Mottle Color (Munsell Color)		Mottle Abundance/Contrast
0	to	6	10YR	3/1			
6	to	8	10YR	4/1			
8	to	12	10YR	4/1	5YR	5/5	5%
	to						
	to						
	to						
	to						

Hydric Soil Indicators

	Histosol	x	Gleyed or Low-Chroma Colors
	Histic Epipedon		Concretions/Soft Masses
	Sulfidic Odor		Hydric Criteria Met
	Reducing Conditions		Other

Remarks:

HYDROLOGY

Primary Water Source(s):

	Groundwater Discharge		Overbank Flooding
	Perched Groundwater	x	Precipitation
x	Other		

Wetland Hydrology Indicators:

	Saturated (<12")		Inundated
x	Distinct Drainage Patterns		FAC-Neutral Test
x	Water Marks/Moss Lichen Lines		Other
x	Oxidized Rhizospheres		

WETLAND DETERMINATION

Hydrophytic vegetation present?	x	Yes		No
Wetland hydrology present?	x	Yes		No
Hydric soils present?	x	Yes		No

Remarks:

FUNCTIONS AND VALUE ASSESSMENT

Function/Value:		Rating								
1	Surface Water Storage		H			x	L		N/A	
2	Ground Water Discharge to Streams		H		M	x	L		N/A	
3	Carbon/Nutrient Export		H		M	x	L		N/A	
4	Provide Wildlife Habitat	x	H		M		L		N/A	herps
5	Support WetlandPlants		H		M		L		N/A	
6	Cultural Value		Yes			x	No			
7	Research/Scientific		Yes			x	No			
8	Economic Value		Yes			x	No			
9	Exotic Present		Yes			x	No			

Remarks:

Little River, AL
WETLAND DETERMINATION

Invetigator(s):	MG/EW/KR	Date:	9-3	2008
Site ID:	LIRI 116	Land Use:	Stream	
UTM: easting	621797	Approximate Size:	1.85	
northing	3801291			
Corwardin Class:	R3RB1	HGM Class:	Riverine	

VEGETATION

	Dominant Plant Species	Stratum	Indicator
1	Betula nigra	Tree	FACW
2	Cephalanthus occidentalis	Shrub	OBL
3	Plantanus occidentalis	Tree	FACW-
4	Justicia americana	Ground	OBL
5			
6			
7			

Percent of Dominant Species that are OBL, FACW, or FAC? 100%

	Other Plant Species	Stratum	Indicator
1			
2			
3			
4			
5			
6			

SOILS

Profile Description

Depth (inches)			Matrix Color (Munsell Color)		Mottle Color (Munsell Color)		Mottle Abundance/Contrast
0	to	1	10YR	4/1			
1	to	12		ROCK			
	to						
	to						
	to						
	to						
	to						

Hydric Soil Indicators

	Histosol		Gleyed or Low-Chroma Colors
	Histic Epipedon		Concretions/Soft Masses
	Sulfidic Odor		Hydric Criteria Met
	Reducing Conditions	X	Other ROCK BOTTOM

Remarks:

HYDROLOGY

Primary Water Source(s):

x	Groundwater Discharge	x	Overbank Flooding
	Perched Groundwater	x	Precipitation
	Other		

Wetland Hydrology Indicators:

	Saturated (<12")		Inundated
x	Distinct Drainage Patterns		FAC-Neutral Test
x	Water Marks/Moss Lichen Lines		Other
	Oxidized Rhizospheres		

WETLAND DETERMINATION

Hydrophytic vegetation present?	x	Yes		No
Wetland hydrology present?	x	Yes		No
Hydric soils present?	x	Yes		No

Remarks:

FUNCTIONS AND VALUE ASSESSMENT

Function/Value:		Rating								
1	Surface Water Storage	x	H						L	N/A
2	Ground Water Discharge to Streams	x	H			M			L	N/A
3	Carbon/Nutrient Export	x	H			M			L	N/A
4	Provide Wildlife Habitat		H	x		M			L	N/A herps
5	Support WetlandPlants	x	H			M			L	N/A
6	Cultural Value		Yes					x	No	
7	Research/Scientific		Yes					x	No	
8	Economic Value		Yes					x	No	
9	Exotic Present		Yes					x	No	

Remarks:

Little River, AL
WETLAND DETERMINATION

Invetigator(s):	MG/EW/KR	Date:	9-3	2008
Site ID:	LIRI 117	Land Use:	Stream	
UTM: easting	622132	Approximate Size:	0.62	
northing	3800955			
Corwardin Class:	R3RB1	HGM Class:	Riverine	

VEGETATION

	Dominant Plant Species	Stratum	Indicator
1	Betula nigra	Tree	FACW
2	Cephalanthus occidentalis	Shrub	OBL
3	Plantanus occidentalis	Tree	FACW-
4	Justicia americana	Ground	OBL
5			
6			
7			

Percent of Dominant Species that are OBL, FACW, or FAC? 100%

	Other Plant Species	Stratum	Indicator
1			
2			
3			
4			
5			
6			

SOILS

Profile Description

Depth (inches)			Matrix Color (Munsell Color)		Mottle Color (Munsell Color)		Mottle Abundance/Contrast
0	to	12		ROCK			
	to						
	to						
	to						
	to						
	to						
	to						

Hydric Soil Indicators

	Histosol		Gleyed or Low-Chroma Colors
	Histic Epipedon		Concretions/Soft Masses
	Sulfidic Odor		Hydric Criteria Met
	Reducing Conditions	X	Other ROCK BOTTOM

Remarks:

HYDROLOGY

Primary Water Source(s):

x	Groundwater Discharge	x	Overbank Flooding
	Perched Groundwater	x	Precipitation
	Other		

Wetland Hydrology Indicators:

	Saturated (<12")		Inundated
x	Distinct Drainage Patterns		FAC-Neutral Test
x	Water Marks/Moss Lichen Lines		Other
	Oxidized Rhizospheres		

WETLAND DETERMINATION

Hydrophytic vegetation present?	x	Yes		No
Wetland hydrology present?	x	Yes		No
Hydric soils present?	x	Yes		No

Remarks:

FUNCTIONS AND VALUE ASSESSMENT

Function/Value:		Rating								
1	Surface Water Storage	x	H						L	N/A
2	Ground Water Discharge to Streams	x	H			M			L	N/A
3	Carbon/Nutrient Export	x	H			M			L	N/A
4	Provide Wildlife Habitat		H	x		M			L	N/A herps
5	Support WetlandPlants	x	H			M			L	N/A
6	Cultural Value		Yes					x	No	
7	Research/Scientific		Yes					x	No	
8	Economic Value		Yes					x	No	
9	Exotic Present		Yes					x	No	

Remarks:

Little River, AL
WETLAND DETERMINATION

Invetigator(s):	MG/EW/KR	Date:	9-3	2008
Site ID:	LIRI 118	Land Use:	Stream	
UTM: easting	622204	Approximate Size:	0.49	
northing	3798623			
Corwardin Class:	R3RB1	HGM Class:	Riverine	

VEGETATION

	Dominant Plant Species	Stratum	Indicator
1	Betula nigra	Tree	FACW
2	Cephalanthus occidentalis	Shrub	OBL
3	Plantanus occidentalis	Tree	FACW-
4	Panicum spp.	Ground	Unknown
5			
6			
7			

Percent of Dominant Species that are OBL, FACW, or FAC? 75%

	Other Plant Species	Stratum	Indicator
1			
2			
3			
4			
5			
6			

SOILS

Profile Description

Depth (inches)			Matrix Color (Munsell Color)		Mottle Color (Munsell Color)		Mottle Abundance/Contrast
0	to	1	10YR	5/1			
1	to	12		ROCK			
	to						
	to						
	to						
	to						
	to						

Hydric Soil Indicators

	Histosol		Gleyed or Low-Chroma Colors
	Histic Epipedon		Concretions/Soft Masses
	Sulfidic Odor		Hydric Criteria Met
	Reducing Conditions	X	Other ROCK BOTTOM

Remarks:

HYDROLOGY

Primary Water Source(s):

x	Groundwater Discharge	x	Overbank Flooding
	Perched Groundwater	x	Precipitation
	Other		

Wetland Hydrology Indicators:

	Saturated (<12")		Inundated
x	Distinct Drainage Patterns		FAC-Neutral Test
x	Water Marks/Moss Lichen Lines		Other
	Oxidized Rhizospheres		

WETLAND DETERMINATION

Hydrophytic vegetation present?	x	Yes		No
Wetland hydrology present?	x	Yes		No
Hydric soils present?	x	Yes		No

Remarks:

FUNCTIONS AND VALUE ASSESSMENT

Function/Value:		Rating								
1	Surface Water Storage	x	H						L	N/A
2	Ground Water Discharge to Streams	x	H			M			L	N/A
3	Carbon/Nutrient Export	x	H			M			L	N/A
4	Provide Wildlife Habitat		H	x		M			L	N/A herps
5	Support WetlandPlants	x	H			M			L	N/A
6	Cultural Value		Yes					x	No	
7	Research/Scientific		Yes					x	No	
8	Economic Value		Yes					x	No	
9	Exotic Present		Yes					x	No	

Remarks:

Little River, AL
WETLAND DETERMINATION

Invetigator(s):	MG/EW/KR	Date:	9-3	2008
Site ID:	LIRI 119	Land Use:	Stream	
UTM: easting	620545	Approximate Size:	1.48	
northing	3795428			
Corwardin Class:	R3RB1	HGM Class:	Riverine	

VEGETATION

	Dominant Plant Species	Stratum	Indicator
1	Betula nigra	Tree	FACW
2	Cephalanthus occidentalis	Shrub	OBL
3	Plantanus occidentalis	Tree	FACW-
4	Panicum spp.	Ground	Unknown
5			
6			
7			

Percent of Dominant Species that are OBL, FACW, or FAC? 75%

	Other Plant Species	Stratum	Indicator
1			
2			
3			
4			
5			
6			

SOILS

Profile Description

Depth (inches)			Matrix Color (Munsell Color)		Mottle Color (Munsell Color)		Mottle Abundance/Contrast
0	to	1	10YR	4/2			
1	to	12		ROCK			
	to						
	to						
	to						
	to						
	to						

Hydric Soil Indicators

	Histosol		Gleyed or Low-Chroma Colors
	Histic Epipedon		Concretions/Soft Masses
	Sulfidic Odor		Hydric Criteria Met
	Reducing Conditions	X	Other ROCK BOTTOM

Remarks:

HYDROLOGY

Primary Water Source(s):

x	Groundwater Discharge	x	Overbank Flooding
	Perched Groundwater	x	Precipitation
	Other		

Wetland Hydrology Indicators:

	Saturated (<12")		Inundated
x	Distinct Drainage Patterns		FAC-Neutral Test
x	Water Marks/Moss Lichen Lines		Other
	Oxidized Rhizospheres		

WETLAND DETERMINATION

Hydrophytic vegetation present?	x	Yes		No
Wetland hydrology present?	x	Yes		No
Hydric soils present?	x	Yes		No

Remarks:

FUNCTIONS AND VALUE ASSESSMENT

Function/Value:		Rating								
1	Surface Water Storage	x	H						L	N/A
2	Ground Water Discharge to Streams	x	H			M			L	N/A
3	Carbon/Nutrient Export	x	H			M			L	N/A
4	Provide Wildlife Habitat		H	x		M			L	N/A herps
5	Support WetlandPlants	x	H			M			L	N/A
6	Cultural Value		Yes					x	No	
7	Research/Scientific		Yes					x	No	
8	Economic Value		Yes					x	No	
9	Exotic Present		Yes					x	No	

Remarks:

Little River, AL
WETLAND DETERMINATION

Invetigator(s):	MG/EW/KR	Date:	9-3	2008
Site ID:	LIRI 120	Land Use:	Floodplane	
UTM: easting	621342	Approximate Size:	1.23	
northing	3795016			
Corwardin Class:	PSS1E	HGM Class:	Slope	

VEGETATION

	Dominant Plant Species	Stratum	Indicator
1	Salix nigra	Tree	OBL
2	Cephalanthus occidentalis	Shrub	OBL
3	Plantanus occidentalis	Tree	FACW-
4	Typha latifolia	Ground	OBL
5	Scripus cyperinus	Ground	OBL
6			
7			

Percent of Dominant Species that are OBL, FACW, or FAC? 100%

	Other Plant Species	Stratum	Indicator
1			
2			
3			
4			
5			
6			

SOILS

Profile Description

Depth (inches)			Matrix Color (Munsell Color)		Mottle Color (Munsell Color)		Mottle Abundance/Contrast
0	to	12	10YR	4/2			
	to						
	to						
	to						
	to						
	to						
	to						

Hydric Soil Indicators

	Histosol	x	Gleyed or Low-Chroma Colors
	Histic Epipedon		Concretions/Soft Masses
	Sulfidic Odor		Hydric Criteria Met
	Reducing Conditions		Other

Remarks:

HYDROLOGY

Primary Water Source(s):

x	Groundwater Discharge	x	Overbank Flooding
	Perched Groundwater	x	Precipitation
	Other		

Wetland Hydrology Indicators:

x	Saturated (<12")		Inundated
x	Distinct Drainage Patterns		FAC-Neutral Test
x	Water Marks/Moss Lichen Lines		Other
	Oxidized Rhizospheres		

WETLAND DETERMINATION

Hydrophytic vegetation present?	x	Yes		No
Wetland hydrology present?	x	Yes		No
Hydric soils present?	x	Yes		No

Remarks:

FUNCTIONS AND VALUE ASSESSMENT

Function/Value:		Rating							
1	Surface Water Storage	x	H				L		N/A	
2	Ground Water Discharge to Streams	x	H		M		L		N/A	
3	Carbon/Nutrient Export	x	H		M		L		N/A	
4	Provide Wildlife Habitat		H	x	M		L		N/A	herps
5	Support WetlandPlants	x	H		M		L		N/A	
6	Cultural Value		Yes			x	No			
7	Research/Scientific		Yes			x	No			
8	Economic Value		Yes			x	No			
9	Exotic Present		Yes			x	No			

Remarks:

Little River, AL
WETLAND DETERMINATION

Invetigator(s):	MG/KR	Date:	9-5	2008
Site ID:	LIRI 121	Land Use:	Stream	
UTM: easting	626103	Approximate Size:	1.23	
northing	3804665			
Corwardin Class:	R3RB1	HGM Class:	Riverine	

VEGETATION

	Dominant Plant Species	Stratum	Indicator
1	Justicia americana	Ground	OBL
2			
3			
4			
5			
6			
7			

Percent of Dominant Species that are OBL, FACW, or FAC? 100%

	Other Plant Species	Stratum	Indicator
1			
2			
3			
4			
5			
6			

SOILS

Profile Description

Depth (inches)			Matrix Color (Munsell Color)		Mottle Color (Munsell Color)		Mottle Abundance/Contrast
0	to	1	10YR	5/2			
1	to	12		ROCK			
	to						
	to						
	to						
	to						
	to						

Hydric Soil Indicators

	Histosol		Gleyed or Low-Chroma Colors
	Histic Epipedon		Concretions/Soft Masses
	Sulfidic Odor		Hydric Criteria Met
	Reducing Conditions	x	Other Rock bottom

Remarks:

HYDROLOGY

Primary Water Source(s):

x	Groundwater Discharge	x	Overbank Flooding
	Perched Groundwater	x	Precipitation
	Other		

Wetland Hydrology Indicators:

x	Saturated (<12")		Inundated
x	Distinct Drainage Patterns		FAC-Neutral Test
x	Water Marks/Moss Lichen Lines		Other
	Oxidized Rhizospheres		

WETLAND DETERMINATION

Hydrophytic vegetation present?	x	Yes		No
Wetland hydrology present?	x	Yes		No
Hydric soils present?	x	Yes		No

Remarks:

FUNCTIONS AND VALUE ASSESSMENT

Function/Value:		Rating							
1	Surface Water Storage	x	H				L		N/A	
2	Ground Water Discharge to Streams	x	H		M		L		N/A	
3	Carbon/Nutrient Export	x	H		M		L		N/A	
4	Provide Wildlife Habitat		H	x	M		L		N/A	herps
5	Support WetlandPlants	x	H		M		L		N/A	
6	Cultural Value		Yes			x	No			
7	Research/Scientific		Yes			x	No			
8	Economic Value		Yes			x	No			
9	Exotic Present		Yes			x	No			

Remarks:

Little River, AL
WETLAND DETERMINATION

Invetigator(s):	MG/KR	Date:	9-5	2008
Site ID:	LIRI 122	Land Use:	Stream	
UTM: easting	625936	Approximate Size:	1.73	
northing	3804315			
Corwardin Class:	R3RB1	HGM Class:	Riverine	

VEGETATION

	Dominant Plant Species	Stratum	Indicator
1	Betual nigra	Ground	FACW
2	Cephalanthus occidentalis	Shrub	OBL
3	Plantanus occidentalis	Shrub	FACW-
4	Acer rubrum	Tree	FAC
5	Alnus serrulata	Shrub	FACW+
6			
7			

Percent of Dominant Species that are OBL, FACW, or FAC? 100%

	Other Plant Species	Stratum	Indicator
1			
2			
3			
4			
5			
6			

SOILS

Profile Description

Depth (inches)			Matrix Color (Munsell Color)		Mottle Color (Munsell Color)		Mottle Abundance/Contrast
0	to	1	5YR	4/1			
1	to	12		ROCK			
	to						
	to						
	to						
	to						
	to						

Hydric Soil Indicators

	Histosol		Gleyed or Low-Chroma Colors
	Histic Epipedon		Concretions/Soft Masses
	Sulfidic Odor		Hydric Criteria Met
	Reducing Conditions	x	Other Rock bottom

Remarks:

HYDROLOGY

Primary Water Source(s):

x	Groundwater Discharge	x	Overbank Flooding
	Perched Groundwater	x	Precipitation
	Other		

Wetland Hydrology Indicators:

x	Saturated (<12")		Inundated
x	Distinct Drainage Patterns		FAC-Neutral Test
x	Water Marks/Moss Lichen Lines		Other
	Oxidized Rhizospheres		

WETLAND DETERMINATION

Hydrophytic vegetation present?	x	Yes		No
Wetland hydrology present?	x	Yes		No
Hydric soils present?	x	Yes		No

Remarks:

FUNCTIONS AND VALUE ASSESSMENT

Function/Value:		Rating							
1	Surface Water Storage	x	H				L		N/A	
2	Ground Water Discharge to Streams	x	H		M		L		N/A	
3	Carbon/Nutrient Export	x	H		M		L		N/A	
4	Provide Wildlife Habitat		H	x	M		L		N/A	herps
5	Support WetlandPlants	x	H		M		L		N/A	
6	Cultural Value		Yes			x	No			
7	Research/Scientific		Yes			x	No			
8	Economic Value		Yes			x	No			
9	Exotic Present		Yes			x	No			

Remarks:

Little River, AL
WETLAND DETERMINATION

Invetigator(s):	MG/KR	Date:	9-5	2008
Site ID:	LIRI 123	Land Use:	Stream	
UTM: easting	625386	Approximate Size:	2.22	
northing	3803617			
Corwardin Class:	R3RB1	HGM Class:	Riverine	

VEGETATION

	Dominant Plant Species	Stratum	Indicator
1	Panicum spp.	Ground	OBL
2	Betula nigra	Tree	FACW
3	Cephalanthus occidentalis	Shrub	OBL
4	Acer rubrum	Tree	FAC
5			
6			
7			

Percent of Dominant Species that are OBL, FACW, or FAC? 100%

	Other Plant Species	Stratum	Indicator
1			
2			
3			
4			
5			
6			

SOILS

Profile Description

Depth (inches)			Matrix Color (Munsell Color)		Mottle Color (Munsell Color)		Mottle Abundance/Contrast
0	to	12		Rock			
	to						
	to						
	to						
	to						
	to						
	to						

Hydric Soil Indicators

	Histosol		Gleyed or Low-Chroma Colors
	Histic Epipedon		Concretions/Soft Masses
	Sulfidic Odor		Hydric Criteria Met
	Reducing Conditions	x	Other Rock bottom

Remarks:

HYDROLOGY

Primary Water Source(s):

x	Groundwater Discharge	x	Overbank Flooding
	Perched Groundwater	x	Precipitation
	Other		

Wetland Hydrology Indicators:

x	Saturated (<12")		Inundated
x	Distinct Drainage Patterns		FAC-Neutral Test
x	Water Marks/Moss Lichen Lines		Other
	Oxidized Rhizospheres		

WETLAND DETERMINATION

Hydrophytic vegetation present?	x	Yes		No
Wetland hydrology present?	x	Yes		No
Hydric soils present?	x	Yes		No

Remarks:

FUNCTIONS AND VALUE ASSESSMENT

Function/Value:		Rating							
1	Surface Water Storage	x	H				L		N/A	
2	Ground Water Discharge to Streams	x	H		M		L		N/A	
3	Carbon/Nutrient Export	x	H		M		L		N/A	
4	Provide Wildlife Habitat		H	x	M		L		N/A	herps
5	Support WetlandPlants	x	H		M		L		N/A	
6	Cultural Value		Yes			x	No			
7	Research/Scientific		Yes			x	No			
8	Economic Value		Yes			x	No			
9	Exotic Present		Yes			x	No			

Remarks:

Little River, AL
WETLAND DETERMINATION

Invetigator(s):	EW	Date:	8-14	2008
Site ID:	LIRI 124	Land Use:	Forest	
UTM: easting	631794	Approximate Size:	0.11	
northing	3815695			
Corwardin Class:	PFO1A	HGM Class:	Slope	

VEGETATION

	Dominant Plant Species	Stratum	Indicator
1	Acer rubrum	Tree	FAC
2	Athyrium filix-femina	Ground	FAC
3	Panicum spp.	Ground	Unknown
4			
5			
6			
7			

Percent of Dominant Species that are OBL, FACW, or FAC? 66%

	Other Plant Species	Stratum	Indicator
1			
2			
3			
4			
5			
6			

SOILS

Profile Description

Depth (inches)			Matrix Color (Munsell Color)		Mottle Color (Munsell Color)		Mottle Abundance/Contrast
0	to	8	10YR	6/2			
8	to	12	10YR	6/2	10YR	6/4	30%
	to						
	to						
	to						
	to						
	to						

Hydric Soil Indicators

	Histosol	x	Gleyed or Low-Chroma Colors
	Histic Epipedon	x	Concretions/Soft Masses
	Sulfidic Odor		Hydric Criteria Met
	Reducing Conditions		Other

Remarks:

HYDROLOGY

Primary Water Source(s):

x	Groundwater Discharge		Overbank Flooding
x	Perched Groundwater	x	Precipitation
	Other		

Wetland Hydrology Indicators:

	Saturated (<12")		Inundated
	Distinct Drainage Patterns		FAC-Neutral Test
x	Water Marks/Moss Lichen Lines		Other
x	Oxidized Rhizospheres		

WETLAND DETERMINATION

Hydrophytic vegetation present?	x	Yes		No
Wetland hydrology present?	x	Yes		No
Hydric soils present?	x	Yes		No

Remarks:

FUNCTIONS AND VALUE ASSESSMENT

Function/Value:		Rating								
1	Surface Water Storage		H			x	L		N/A	
2	Ground Water Discharge to Streams		H		M	x	L		N/A	
3	Carbon/Nutrient Export		H		M	x	L		N/A	
4	Provide Wildlife Habitat		H	x	M		L		N/A	herps
5	Support WetlandPlants		H	x	M		L		N/A	
6	Cultural Value		Yes			x	No			
7	Research/Scientific		Yes			x	No			
8	Economic Value		Yes			x	No			
9	Exotic Present		Yes			x	No			

Remarks:

pic 16-17

Little River, AL
WETLAND DETERMINATION

Invetigator(s):	MG	Date:	9-2	2008
Site ID:	LIRI 125	Land Use:	Forest	
UTM: easting	621358	Approximate Size:	1.7	
northing	3794302			
Corwardin Class:	PFO1C	HGM Class:	Slope	

VEGETATION

	Dominant Plant Species	Stratum	Indicator
1	Quercus phellos	Tree	FACW-
2	Nyssa sylvatica	Tree	FAC
3	Sphagnum spp.	Ground	Unknown
4			
5			
6			
7			

Percent of Dominant Species that are OBL, FACW, or FAC? 66%

	Other Plant Species	Stratum	Indicator
1			
2			
3			
4			
5			
6			

SOILS

Profile Description

Depth (inches)			Matrix Color (Munsell Color)		Mottle Color (Munsell Color)		Mottle Abundance/Contrast
0	to	5	10YR	5/2	10YR	5/7	5%
5	to	7	10YR	4/2	10YR	5/7	20%
7	to	12	10YR	7/1	10YR	4/4	30%
	to						
	to						
	to						
	to						

Hydric Soil Indicators

	Histosol	x	Gleyed or Low-Chroma Colors
	Histic Epipedon	x	Concretions/Soft Masses
	Sulfidic Odor		Hydric Criteria Met
	Reducing Conditions		Other

Remarks:

HYDROLOGY

Primary Water Source(s):

	Groundwater Discharge		Overbank Flooding
	Perched Groundwater	x	Precipitation
	Other		

Wetland Hydrology Indicators:

x	Saturated (<12")		Inundated
	Distinct Drainage Patterns		FAC-Neutral Test
x	Water Marks/Moss Lichen Lines		Other
	Oxidized Rhizospheres		

WETLAND DETERMINATION

Hydrophytic vegetation present?	x	Yes		No
Wetland hydrology present?	x	Yes		No
Hydric soils present?	x	Yes		No

Remarks:

FUNCTIONS AND VALUE ASSESSMENT

Function/Value:		Rating							
1	Surface Water Storage		H			x	L		N/A
2	Ground Water Discharge to Streams		H		M	x	L		N/A
3	Carbon/Nutrient Export		H		M	x	L		N/A
4	Provide Wildlife Habitat	x	H		M		L		N/A herps
5	Support WetlandPlants	x	H		M		L		N/A
6	Cultural Value	x	Yes				No	close to a road	
7	Research/Scientific	x	Yes				No	herps	
8	Economic Value	x	Yes				No	research	
9	Exotic Present	x	Yes				No	Microstengium vimenium	

Remarks:

pic 16-17

Little River, AL
WETLAND DETERMINATION

Invetigator(s):	EW, MG	Date:	9-23	2008
Site ID:	LIRI 126	Land Use:	Forest	
UTM: easting	628358	Approximate Size:	0.16	
northing	3813972			
Corwardin Class:	PFO1A	HGM Class:	Slope	

VEGETATION

	Dominant Plant Species	Stratum	Indicator
1	Acer rubrum	Tree	FAC
2	Liquidambar styraciflua	Tree	FAC+
3	Athyrium filix-femina	Ground	FAC
4			
5			
6			
7			

Percent of Dominant Species that are OBL, FACW, or FAC? 100%

	Other Plant Species	Stratum	Indicator
1	Panicum spp.	Ground	Uknown
2	Lobelia cardinalis	Ground	FACW+
3			
4			
5			
6			

SOILS

Profile Description

Depth (inches)			Matrix Color		Mottle Color (Munsell Color)		Mottle Abundance/Contrast
0	to	5	2.5YR	3/2			
5	to	7	2.5YR	4/1			
	to						
	to						
	to						
	to						
	to						

Hydric Soil Indicators

	Histosol	x	Gleyed or Low-Chroma Colors
	Histic Epipedon		Concretions/Soft Masses
	Sulfidic Odor		Hydric Criteria Met
	Reducing Conditions		Other

Remarks:

HYDROLOGY

Primary Water Source(s):

	Groundwater Discharge	x	Overbank Flooding
	Perched Groundwater		Precipitation
	Other		

Wetland Hydrology Indicators:

x	Saturated (<12")		Inundated
x	Distinct Drainage Patterns		FAC-Neutral Test
x	Water Marks/Moss Lichen Lines		Other
	Oxidized Rhizospheres		

WETLAND DETERMINATION

Hydrophytic vegetation present?	x	Yes		No
Wetland hydrology present?	x	Yes		No
Hydric soils present?	x	Yes		No

Remarks:

FUNCTIONS AND VALUE ASSESSMENT

Function/Value:		Rating								
1	Surface Water Storage		H		M		L	x	N/A	
2	Ground Water Discharge to Streams	x	H		M		L		N/A	
3	Carbon/Nutrient Export		H		M	x	L		N/A	
4	Provide Wildlife Habitat	x	H		M		L		N/A	herps
5	Support WetlandPlants		H	x	M		L		N/A	
6	Cultural Value	x	Yes				No	Historic Site		
7	Research/Scientific	x	Yes				No			
8	Economic Value		Yes			x	No			
9	Exotic Present		Yes			x	No			

Remarks:

Little River, AL
WETLAND DETERMINATION

Invetigator(s):	MG	Date:	5-22	2008
Site ID:	LIRI 127	Land Use:	Forest	
UTM: easting	628122	Approximate Size:	0.15	
northing	3817494			
Corwardin Class:	PFO1A	HGM Class:	Depression	

VEGETATION

	Dominant Plant Species	Stratum	Indicator
1	Scripus cyperinus	Ground	OBL
2	Aster spp.	Ground	Unknown
3	Rubus spp.	Ground	Unknown
4	Liriodendron tulipifera	Tree	FAC
5	Toxicodendron radicans	Ground	FAC
6			
7			

Percent of Dominant Species that are OBL, FACW, or FAC? 60%

	Other Plant Species	Stratum	Indicator
1			
2			
3			
4			
5			
6			

SOILS

Profile Description

Depth (inches)			Matrix Color (Munsell Color)		Mottle Color (Munsell Color)		Mottle Abundance/Contrast
0	to	9	2.5Y	3/2			
9	to	12	2.5Y	4/3			
	to						
	to						
	to						
	to						
	to						

Hydric Soil Indicators

	Histosol	x	Gleyed or Low-Chroma Colors
	Histic Epipedon	x	Concretions/Soft Masses
	Sulfidic Odor		Hydric Criteria Met
	Reducing Conditions		Other

Remarks:

HYDROLOGY

Primary Water Source(s):

	Groundwater Discharge		Overbank Flooding
x	Perched Groundwater	x	Precipitation
	Other		

Wetland Hydrology Indicators:

x	Saturated (<12")		Inundated
x	Distinct Drainage Patterns		FAC-Neutral Test
	Water Marks/Moss Lichen Lines		Other
	Oxidized Rhizospheres		

WETLAND DETERMINATION

Hydrophytic vegetation present?	x	Yes		No
Wetland hydrology present?	x	Yes		No
Hydric soils present?	x	Yes		No

Remarks:

FUNCTIONS AND VALUE ASSESSMENT

	Function/Value:	Rating								
1	Surface Water Storage		H				x	L		N/A	
2	Ground Water Discharge to Streams		H		M			L	x	N/A	
3	Carbon/Nutrient Export		H		M			L	x	N/A	
4	Provide Wildlife Habitat		H		M		x	L		N/A	herps
5	Support WetlandPlants		H		M		x	L		N/A	
6	Cultural Value		Yes				x	No			
7	Research/Scientific		Yes				x	No			
8	Economic Value		Yes				x	No			
9	Exotic Present	x	Yes					No		Honeysuckle	

Remarks: