3/27/200 From Haggizal

October 24, 1988

Dr. Fred Lindholm, Chairman Technical Advisory Committee

Dear Dr. Lindholm Gainesville, Fl. 32605 4006 S.W. 17 Terr. Idywild-Serenola Planning Group The majority of my expertise lies with vertebrate animal ecology, but I am quite confident that the principles

and suggestions will apply to other organisms and ecological values as well Given that we wish to consider resource conservation as a useful premise for Florida's sustainable

Simultaneously, we are losing Florida's forest acreage at the rate of 1% per year which translates into a loss of averaged about 4% per year which means that our human population has doubled every 17.5 years. This rate development the following points apply. Over the last century, Florida's human population growth has is somewhat over two times the world's population growth rate and is near the highest of any region on earth. kinds. In addition to the simple arithmetic loss of acreage, remaining habitats are becoming fragmented into loss of forest acreage. I do not believe any one knows how rapidly we are .losing natural environments of all 150,000 acres per year. This rate of loss is as high as all of Latin America and at least twice as high as Brazil's

small, discontinuous patches with lots of imposing human structures in between.

one known source of mortality on all of Florida's threatened or endangered large mammal species including secondary highway each day. While this has provided some enhancement to the mobility of humans, it has not highways. Over the last 50 years we have constructed an average of about 4.5 miles of new primary and Simultaneous with the loss and fragmentation of natural environments is the construction of high speed isolating force than almost any other ecological factor including rivers or open water. panther, black bear, manatee, and key deer. Highways are known to be a much more lethal and devastating been without great social and environmental cost. Collisions between animals and vehicles are the number

dictionary defines the word crisis as an unstable or crucial times or state of affairs whose outcome will make a observed that our squandering of biological diversity is the transgression for which future generations are least area believe that the problem has reached crisis proportions...". Professor Edward Wilson of Harvard has have been facing since the early 1960's. Our state is in the grip of a natural-resource crisis of epic proportions difference for better or worse.' By every possible definition, Florida and Floridians face a crisis situation that we likely to forgive us. Former assistant Secretary of Interior Nathaniel P. Reed has observed that,, "Webster's Technologies to Maintain Biological Diversity states that, "Most scientists and conservationists working in this The opening paragraph of a recent U.S. Congress, Office of Technology Assessment Report (OTA -F-330) on

around it. Based on my review of your situation, I also suggest the following. put primary focus on trying to tie into it. Please give consideration to the establishment of a 500 foot buffer

sort of thing occurs as the Mowry horse underpass that allows the Veterinary College horses to move freely whatsoever, and if those of Payne's Prairie are to have any security in the future, it is critically important to across the wide expanse of IFAS greenspace to Bivens Arm and thence to Payne's Prairie. natural area should extend this open green space southward to the Cecil Webb Teaching Center, and on from Lake Alice to the top of the ridge on Archer Road west of the new parking ramp. Some sort of linear interconnect the increasingly isolated areas with a greenway. A working example of how we used to do this If the animals of Lake Alice Wildlife Sanctuary, Bivens Arm, or Serenola Forest are to have any future

of these are the natural topographic and drainage contours. Most any high resolution topographic map will revea systems, then you should take note of two additional physical features that occur in the planning area. The first Bivens Arm, and Payne's Prairie. Thus, these three areas might be viewed as beads on the community's opposed to the culvert and concrete syndrome. Again it would be seen that this could interconnect Lake Alice a natural trajectory of drainage that could still be restored to aid and facilitate greenspace, water flowage as Second, if you agree that human physical structures should be designed for compatibility with natural ecologica ultimately Bivens's Arm from becoming isolated little ponds in a sea of concrete. greenspace, to Bivens and Paynes Prairie to Micanopy. It is the only linkage that can prevent Lake Alice, and greenbelt linkage could span ten miles of aquatic and riparian environment from Lake Alice, across IFAS committing to save less than one mile of greenline corridor between Lake Alice and Bivens Arm the tota necklace; you have the three beads to work with and I suggest that you recreate and maintain the string. By

and/or jogging trail consistent with this county's and this country's increasing emphasis on linear recreationa component of biological diversity. A 300 foot wide strip would be better because it could then contain a walking interconnected these areas would greatly increase property and living values as well as maintaining a large system into your region would be to prohibit intensive development along the stringer and around the pearls of are very important to wildlife conservation. Thus, in my judgement, first priority for designing a natural ecological reference to this word in the packet of documentary material that I left with your group. Hardwood forest stringers In forestry jargon, a strip of riparian forest along a waterway is often referred to as a "stringer.. and you will note Lake Alice, Bivens Arm, and Payne's Prairie. I believe that a 100 foot wide riparian forest strip that

creation of "bluebelts" as opposed to the greenbelt described above. Professor Edward Deevey of your group is massive aquifer contamination. The zoning of recharge areas such as this is now commonly referred to as the area. It would not only help prevent personal property loss due to sink hole collapse but also help prevent area as well as underlying Serenola forest. This could be the county's ideal initiative for a ground-water recharge 1-75. This constellation underlies much of the IFAS research and teaching farm area that presently exists in this roughly northwest to southeast, parallel to the drainageway just described above, and midway between it and keenly aware of and very authoritative on matters of ground-water recharge and Florida lakes etc. The second natural feature is geological in nature, it is the seemingly linear constellation of sink holes that lie