

Florida Fish and Wildlife Conservation Commission
Division of Habitat and Species Conservation
Land Conservation and Planning
Baker County Timberlands Florida Forever Project Analysis
December 2024



This document contains the Florida Fish and Wildlife Conservation Commission's (FWC) Geographic Information System (GIS) data analysis of the area yet to be acquired within the **Baker County Timberlands** Florida Forever project. This analysis was performed to provide FWC and others with important fish and wildlife resource information to be used in evaluating and ranking Florida Forever projects. The data selected for analysis are those considered by FWC to spatially reflect important fish and wildlife habitat and life history requirements.

In addition, FWC has completed a field review and associated assessment report for this project/proposal that is incorporated within the Acquisition and Restoration Council Florida Forever Project Evaluation Report. This report is available upon request.

GIS Data

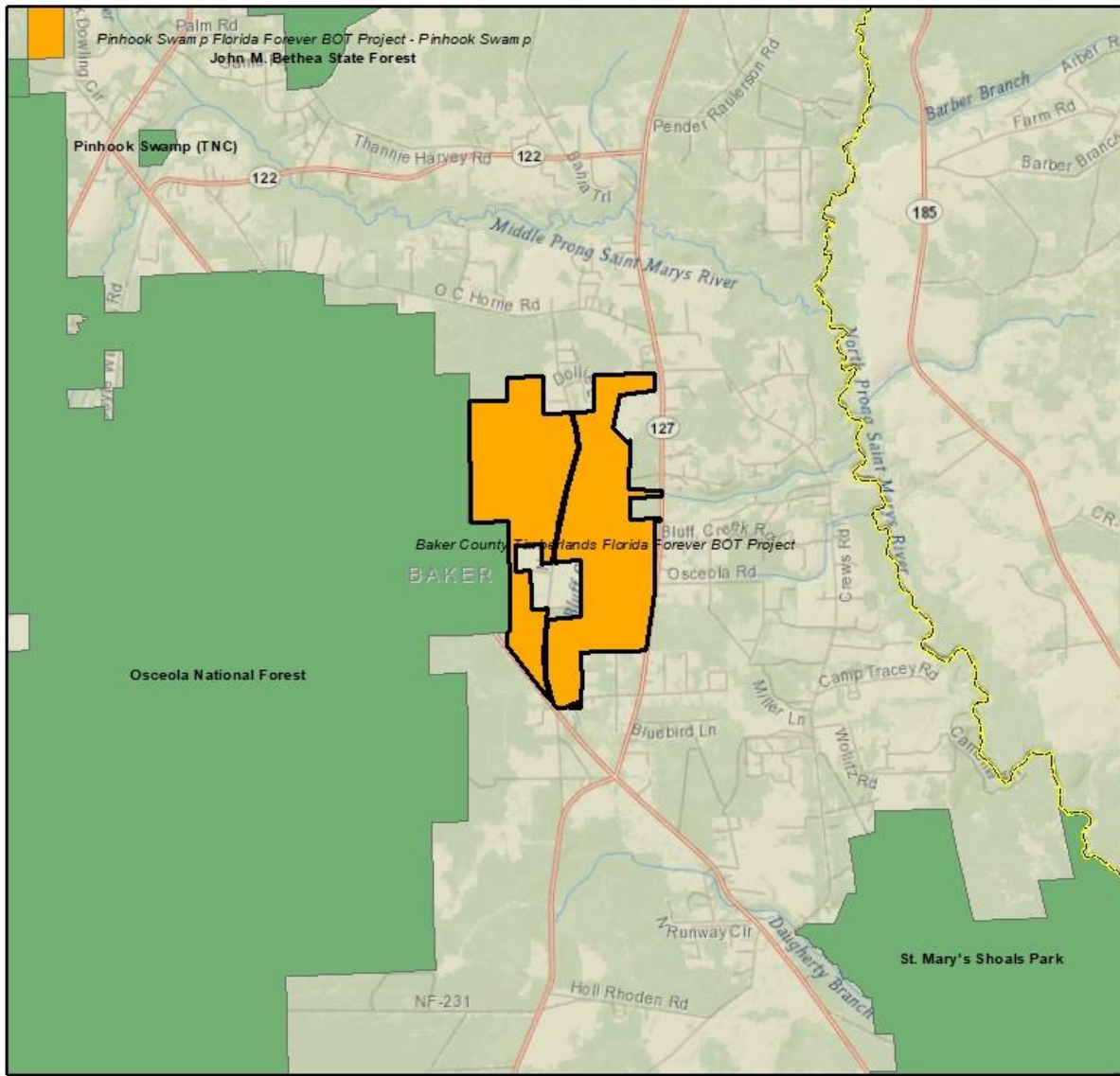
The FWC utilizes the Florida Cooperative Land Cover (CLC) GIS data layer for identification and mapping of land cover. The CLC is a cooperative effort between the FWC and the Florida Natural Areas Inventory (FNAI) to develop ecologically-based statewide land cover from existing sources and expert review of aerial photography. Land cover acreage estimates found in this document are based on GIS analysis of these data.

The FWC Florida Landscape Assessment Model (FLAM)¹ is a GIS model that determines the landscape value based on natural resources and fish and wildlife habitat. The FLAM ranks habitat from a 0-10; a rank of 10 being of greatest value.

Important fish and wildlife resource GIS data were queried using Environmental Resource Analysis GIS computer software. These data include the following GIS layers:

- FWC-FNAI Florida Cooperative Land Cover
- FWC Strategic Habitat Conservation Areas – Priority and Species
- Critical Lands and Waters Identification Project (CLIP) – Priority 1 and 2 – Terrestrial and Water
- CLIP – Landscape, Biodiversity, and Floodplain Resources
- Panther Location
- Panther Mortality
- Florida Panther Priority Habitat (Primary, Secondary, and Dispersal)
- Black Bear Range
- Rare Fish Locations/ Imperiled Waters
- Southern Bald Eagle Nest
- FWC Imperiled Species Richness

- FNAI Element Occurrences
- FNAI Suitable Habitat that Supports Species Known to Occur in the Vicinity
- Florida Department of Environmental Protection Surface Water Classification
- U.S. Fish and Wildlife Service (USFWS) - National Wetlands Inventory
- USFWS Critical Habitat
- Florida Geological Survey Springs
- Outstanding Florida Waters
- Areas of Critical State Concern



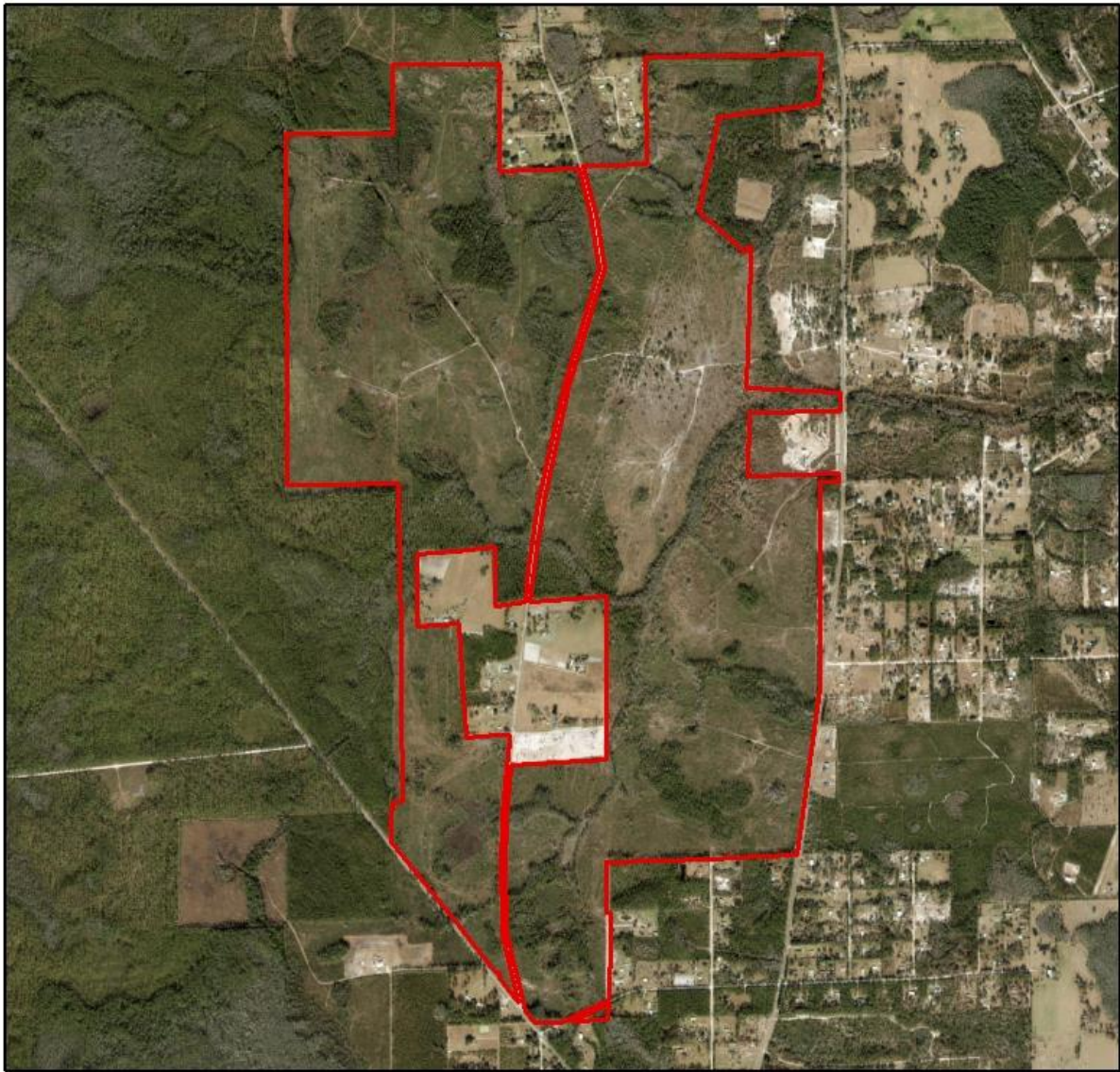
**Baker County Timberlands
Florida Forever Project**
Baker County
1,142 Remaining Acres



0 1 2 3 4 Miles
Created in ArcGIS 10.8 by the Florida Fish and Wildlife Conservation Commission December 2024

Vicinity Map

-  Baker County Timberlands Boundary
-  County Boundaries
-  Conservation Lands
-  Florida Forever Projects



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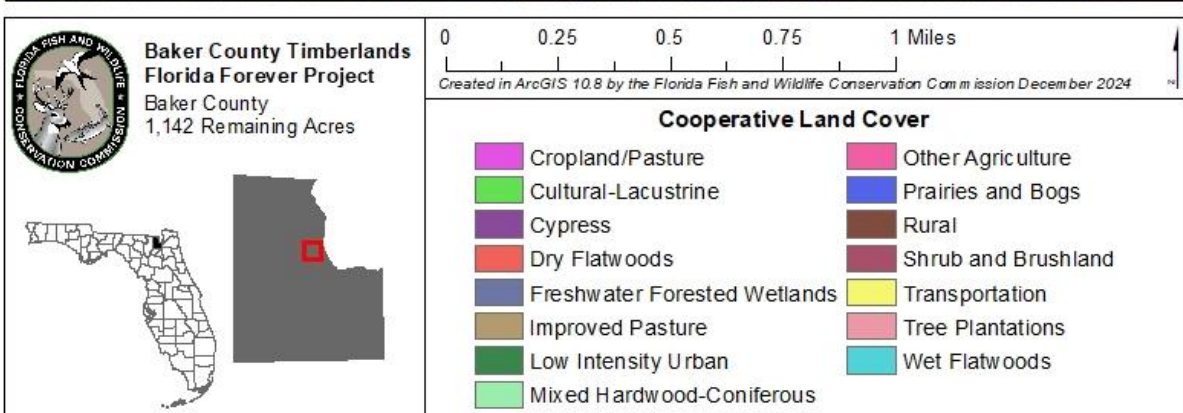
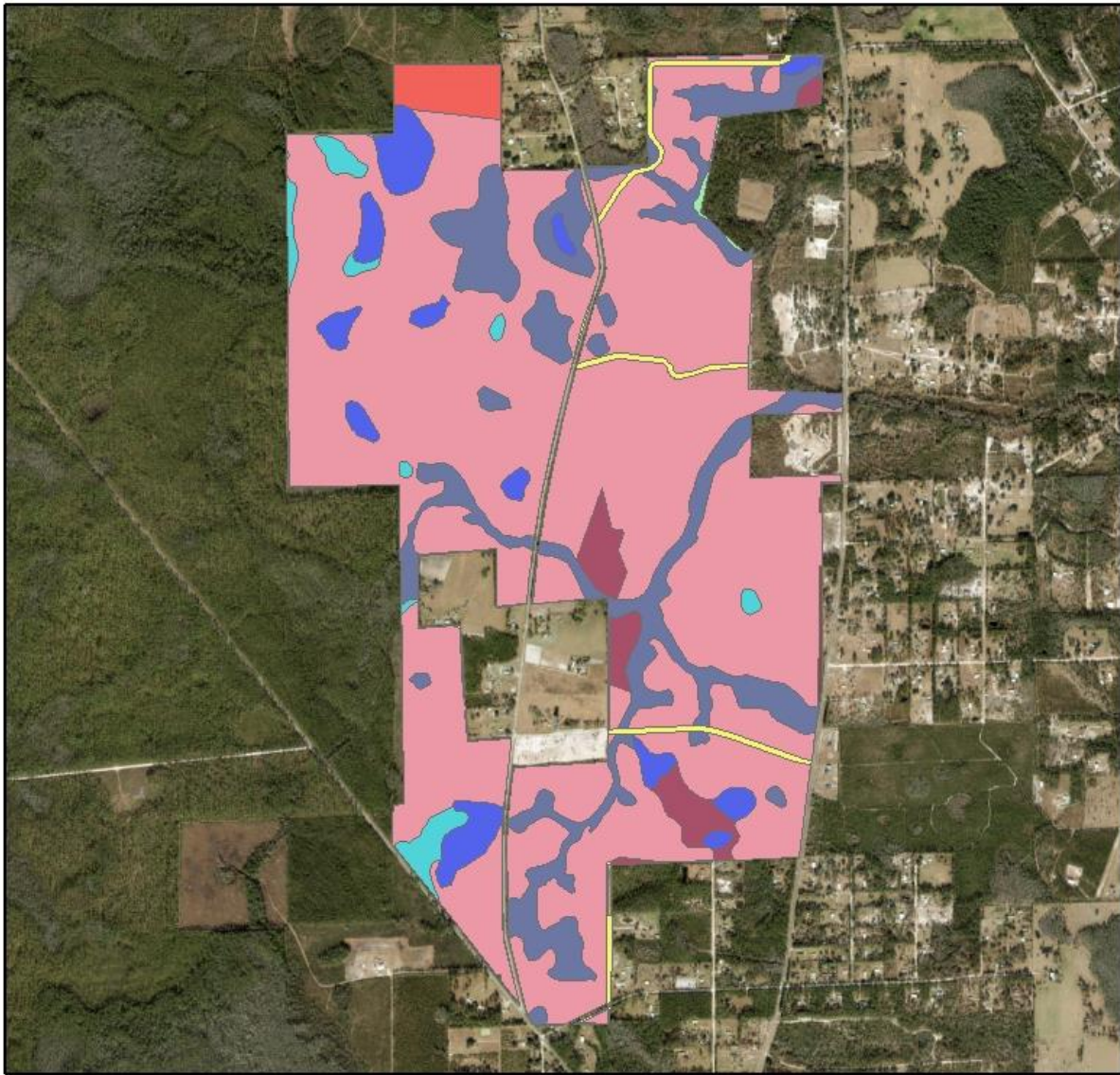


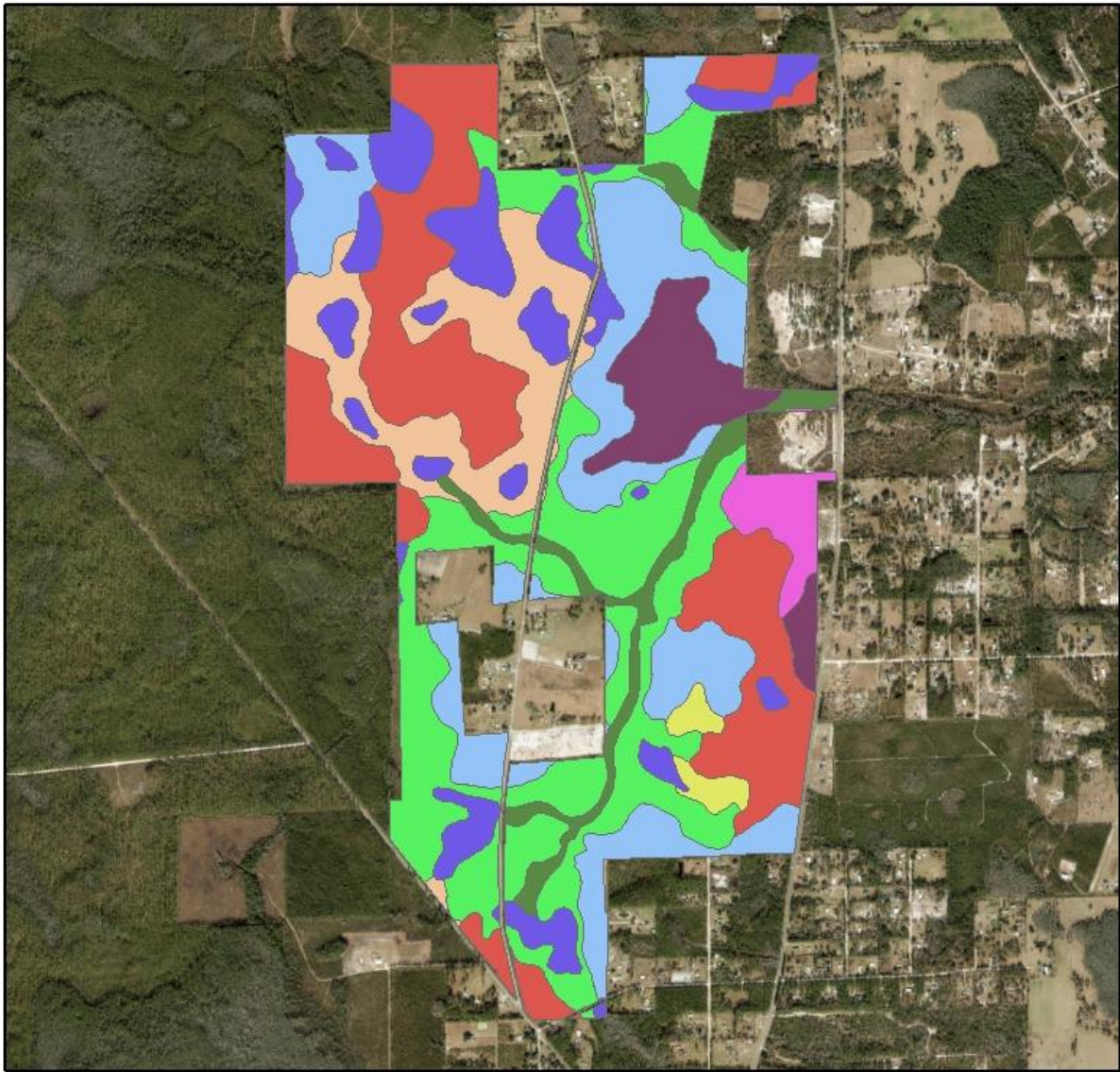
0 0.25 0.5 0.75 1 Miles

Created in ArcGIS 10.8 by the Florida Fish and Wildlife Conservation Commission December 2024

Aerial Imagery

 Baker County Timberlands Boundary





**Baker County Timberlands
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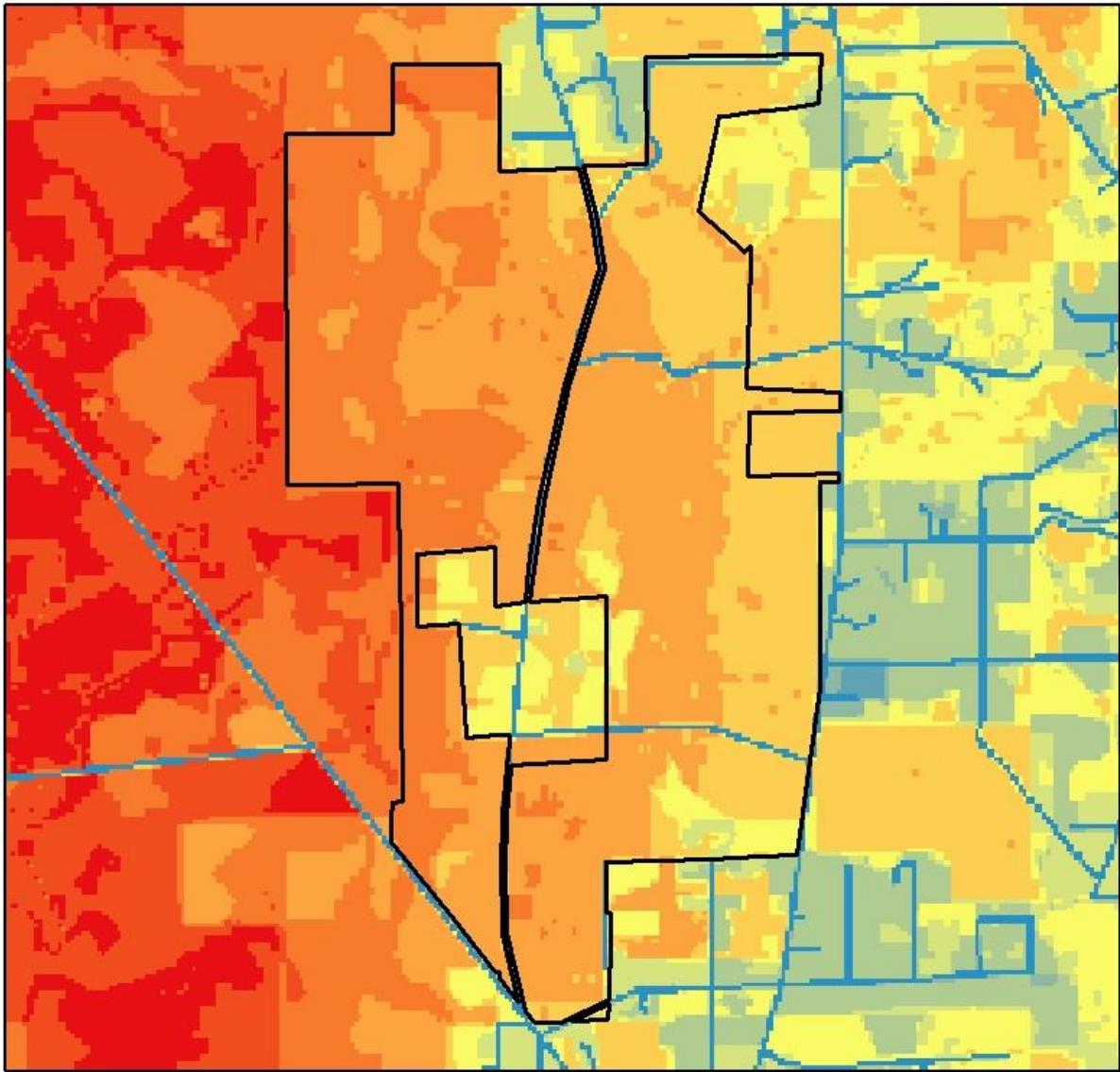


0 0.25 0.5 0.75 1 Miles

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Soil Types

 Albany fine sand	 Pelham fine sand
 Mascotte fine sand	 Plummer fine sand
 Ocala fine sand	 Sapelo fine sand
 Olustee-Pelham complex	 Surrency-Mulat complex
 Pantego-Pamlico, loamy substratum, complex	



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0 0.25 0.5 0.75 1 Miles

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Florida Landscape Assessment Model



FWC Florida Landscape Assessment Model 2023		
	Value	Acres
	0	18.1
	1	0.0
	2	0.1
	3	1.6
	4	7.8
	5	33.3
	6	273.5
	7	525.0
	8	285.7
	9	9.6
	10	0.0
Mean FLAM value =	6.8	

Comments:

¹ FWC has developed a GIS-based assessment tool that incorporates a wide variety of land cover and wildlife species data. These wildlife species include imperiled species and locally important species. Application of this model assists in the identification and conservation of important wildlife habitats. The FLAM ranks the Florida landscape based upon important natural resources and habitat needs of wildlife as a way to identify ecologically significant lands in the state, and to assess the potential impacts of land development projects on wildlife populations. The FLAM is provided as part of the FWC's continuing technical assistance to various local, regional, state, and federal agencies, and entities interested in wildlife needs and conservation in order to: (1) determine ways to avoid or minimize project impacts by evaluating alternative placements, alignments, and transportation corridors during early planning stages, (2) assess direct, secondary, and cumulative impacts to habitat and wildlife resources, and (3) help identify appropriate parcels for land conservation, and for wetland and upland habitat mitigation.

Environmental Resource Analysis

FWC Land Conservation and Planning

Analysis Shape Type: Polygon

Analysis Timestamp: 11042024 01:10:49

Shape Name: Unnamed polygon centered at -82.23992 °, 30.400515 °

Boundary Area: 1142.43 acres

Buffer Area: 0 acres

Total Area: 1142.43 acres

FWC Wildlife Data and Models

Cooperative Land Cover v3.7

Name - State	Code - State	Name - Site	Code - Site	Total Area (acres)	Percent of Area
Wet Flatwoods	2221	Hydric Pine Flatwoods	22211	20.09	1.76 %
Cropland/Pasture	18331	Field Crops	183312	0.21	0.02 %
Cultural-Lacustrine	3200	Artificial Impoundment/Reservoir	3220	0.07	0.01 %
Low Intensity Urban	1821	Residential, Low Density	18212	0.27	0.02 %
Other Agriculture	18335	Specialty Farms	183352	0.00	0 %
Transportation	1840	Transportation	1840	17.00	1.49 %
Improved Pasture	183313	Improved Pasture	183313	0.38	0.03 %
Tree Plantations	18333	Coniferous Plantations	183332	834.89	73.08 %
Shrub and Brushland	1500	Shrub and Brushland	1500	31.44	2.75 %
Rural	1830	Rural Open	1831	0.28	0.02 %
Dry Flatwoods	1310	Mesic Flatwoods	1311	18.77	1.64 %
Mixed Hardwood-Coniferous	1400	Mixed Hardwood-Coniferous	1400	1.46	0.13 %
Cypress	2211	Cypress	2211	0.35	0.03 %
Freshwater Forested Wetlands	2200	Mixed Hardwood-Coniferous Swamps	2240	162.72	14.24 %
Rural	1830	Rural Structures	1832	2.27	0.2 %
Prairies and Bogs	2110	Mixed Scrub-Shrub Wetland	2112	52.23	4.57 %
TOTAL:				1,142.43	100 %

Critical Lands and Waters Identification Project (CLIP) Priority 1 and 2 - Terrestrial and Waters

CLIP Priority	Total Area (acres)	Percent of Area
All other cells	924.68	80.94 %
CLIP P1 in terrestrial	160.51	14.05 %
CLIP P2 in terrestrial	57.24	5.01 %
TOTAL:	1,142.43	100 %

CLIP- Landscape Category

Priority	Total Area (acres)	Percent of Area
0	0.05	0 %
2	1.30	0.11 %
3	1,139.71	99.76 %
5	1.37	0.12 %
TOTAL:	1,142.43	100 %

CLIP- Biodiversity Category

Priority	Total Area (acres)	Percent of Area
0	1.85	0.16 %
1	0.37	0.03 %
2	337.19	29.52 %
3	763.19	66.8 %
4	39.82	3.49 %
TOTAL:	1,142.43	100 %

Priority FWC Strategic Habitat Conservation Areas 2024

Priority	Total Area (acres)	Percent of Area
3	758.56	66.4 %
TOTAL:	758.56	66.4 %

FWC Strategic Habitat Conservation Areas 2024

Species 1	Species 2	Species 3	Species 4	Species 5	Species 6	Total Area (acres)	Percent of Area
American swallow-tailed kite						758.56	66.4 %
TOTAL:						758.56	66.4 %

Panther Location

No Records Found

Panther Mortality

No Records Found

Panther Priority Habitat

No Records Found									
Bear Range									
Bear Range		Total Area (acres)				Percent of Area			
Frequent		1,142.43				100 %			
TOTAL:		1,142.43				100 %			
Rare Fish									
No Records Found									
Rare Fish Imperiled Waters									
COMMON NAME		SCIENTIFIC NAME			Total Area (acres)		Percent of Area		
Ironcolor shiner		Notropis chalybaeus			1,142.43		100 %		
TOTAL:					1,142.43		100 %		
Southern bald eagle nest									
No Records Found									
Imperiled Species Richness									
Number of Species		Total Area (acres)				Percent of Area			
0		101.30				8.87 %			
1		3.14				0.27 %			
2		0.71				0.06 %			
3		838.65				73.41 %			
4		179.87				15.74 %			
6		18.76				1.64 %			
TOTAL:		1,142.43				100 %			

Florida Natural Areas Inventory Data									
Element Occurrences									
COMMON NAME	SCIENTIFIC NAME	GLOBAL RANK	STATE RANK	FWC STATUS	FEDERAL STATUS	EO Rank	Last Observation	Total Area (acres)	Percent of Area
Eastern Diamondback Rattlesnake	Crotalus adamanteus	G3	S3	N	UR	U	1991-09-06	235.08	20.58 %
Florida Black Bear	Ursus americanus floridanus	G5T4	S4	N	N	B	2020-11-19	1,142.43	100 %
TOTAL:								1,377.52	120.58 %
Suitable Habitat that Supports Species Known to Occur in the Vicinity									
COMMON NAME		SCIENTIFIC NAME			Total Area (acres)		Percent of Area		
Florida Sandhill Crane		Antigone canadensis pratensis			1.06		0.09 %		
Gray Bat		Myotis grisescens			5.37		0.47 %		
Red-cockaded Woodpecker		Dryobates borealis			37.86		3.31 %		
Wood Stork		Mycteria americana			52.29		4.58 %		
TOTAL:					96.57		8.45 %		

USFWS									
Critical Habitat									
No Records Found									

Area of Critical State Concern									
Apalachicola									
No Records Found									
Big Cypress									
No Records Found									
Green Swamp									
No Records Found									
Key West									
No Records Found									
Lower Keys									
No Records Found									
Upper Keys									
No Records Found									

Florida Ecological Greenways Network									
Wildlife Corridor Classification									
Priority Level		Total Area (acres)				Percent of Area			
1		1.37				0.12 %			
2		1,018.76				89.17 %			
TOTAL:		1,020.13				89.29 %			

Water Resources

FDEP Surface Water Classification

Waterbody Name	Water Type	Water Basin	Classification	Total Area (acres)	Percent of Area
BLUFF CREEK	STREAM	2222	3F	1,142.43	100 %
			TOTAL:	1,142.43	100 %

Outstanding Florida Waters

No Records Found

Florida Geological Survey Springs

No Records Found

National Wetlands Inventory

Wetland Type	Wetland Code	Total Area (acres)	Percent of Area
FRESHWATER EMERGENT WETLAND	PEM1/SS3C	51.87	4.54 %
FRESHWATER EMERGENT WETLAND	PEM1F	6.54	0.57 %
FRESHWATER FORESTED/SHRUB WETLAND	PFO2/4C	9.82	0.86 %
FRESHWATER FORESTED/SHRUB WETLAND	PFO6/4C	16.42	1.44 %
FRESHWATER FORESTED/SHRUB WETLAND	PFO6/3C	20.48	1.79 %
FRESHWATER FORESTED/SHRUB WETLAND	PFO4/3B	3.45	0.3 %
FRESHWATER FORESTED/SHRUB WETLAND	PFO6C	29.29	2.56 %
FRESHWATER FORESTED/SHRUB WETLAND	PFO6F	56.72	4.97 %
RIVERINE	R4SBC	0.13	0.01 %
RIVERINE	R5UBH	5.38	0.47 %
	TOTAL:	200.11	17.52 %

Priority Floodplain Resources

Priority	Total Area (acres)	Percent of Area
4	363.51	31.82 %
3	3.91	0.34 %
0	774.63	67.81 %
5	0.38	0.03 %
TOTAL:	1,142.43	100 %