

Florida Fish and Wildlife Conservation Commission
Division of Habitat and Species Conservation
Land Conservation and Planning
Larkin Ranch 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 **Larkin Ranch** 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

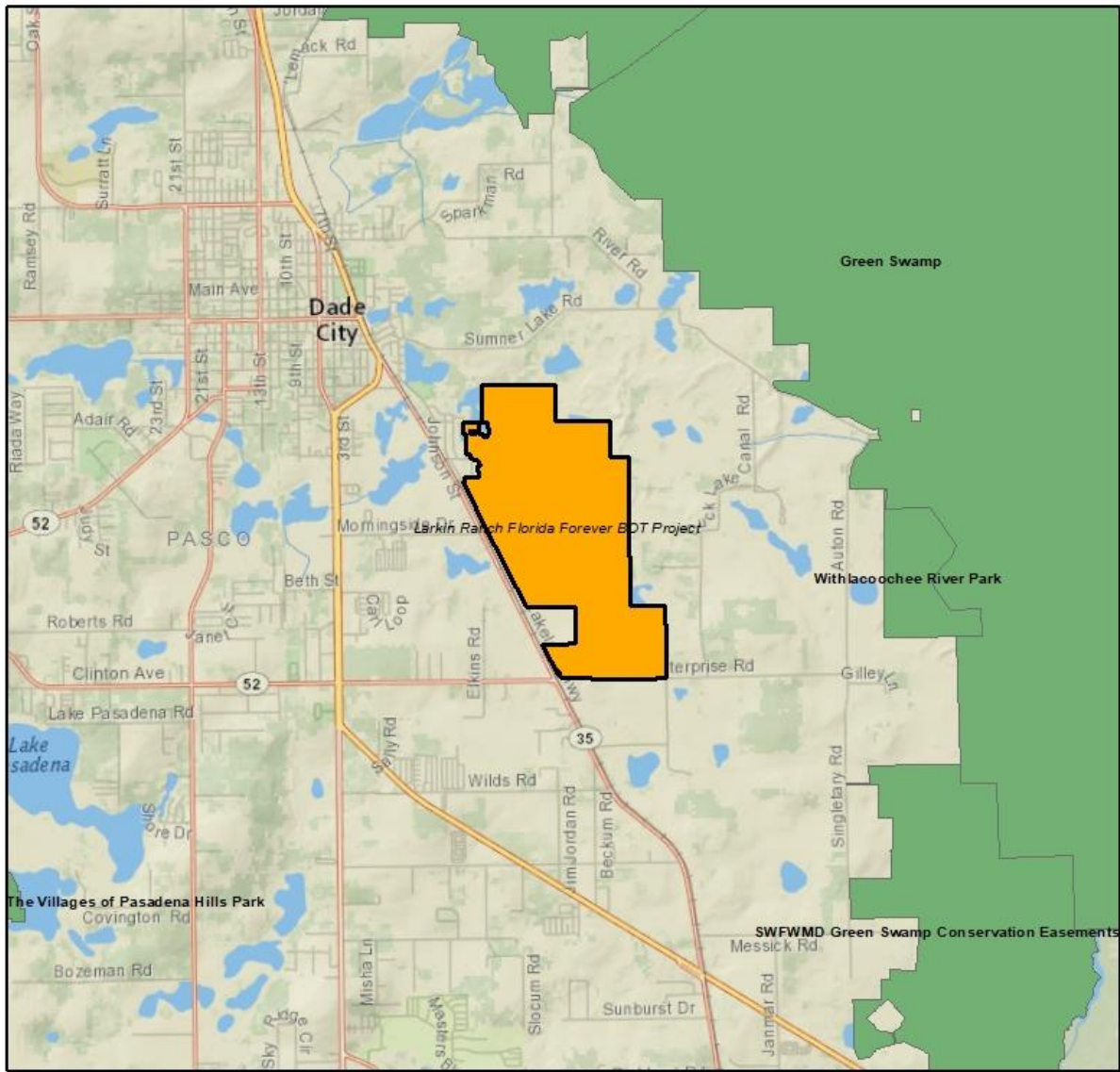
The FWC utilizes the Florida Cooperative Land Cover (CLC) GIS data layer for identification and mapping of land cover. The CLC is a cooperative effort between the FWC and the Florida Natural Areas Inventory (FNAI) to develop ecologically-based statewide land cover from existing sources and expert review 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



**Larkin Ranch
Florida Forever Project**
Pasco County
1,075 Remaining Acres

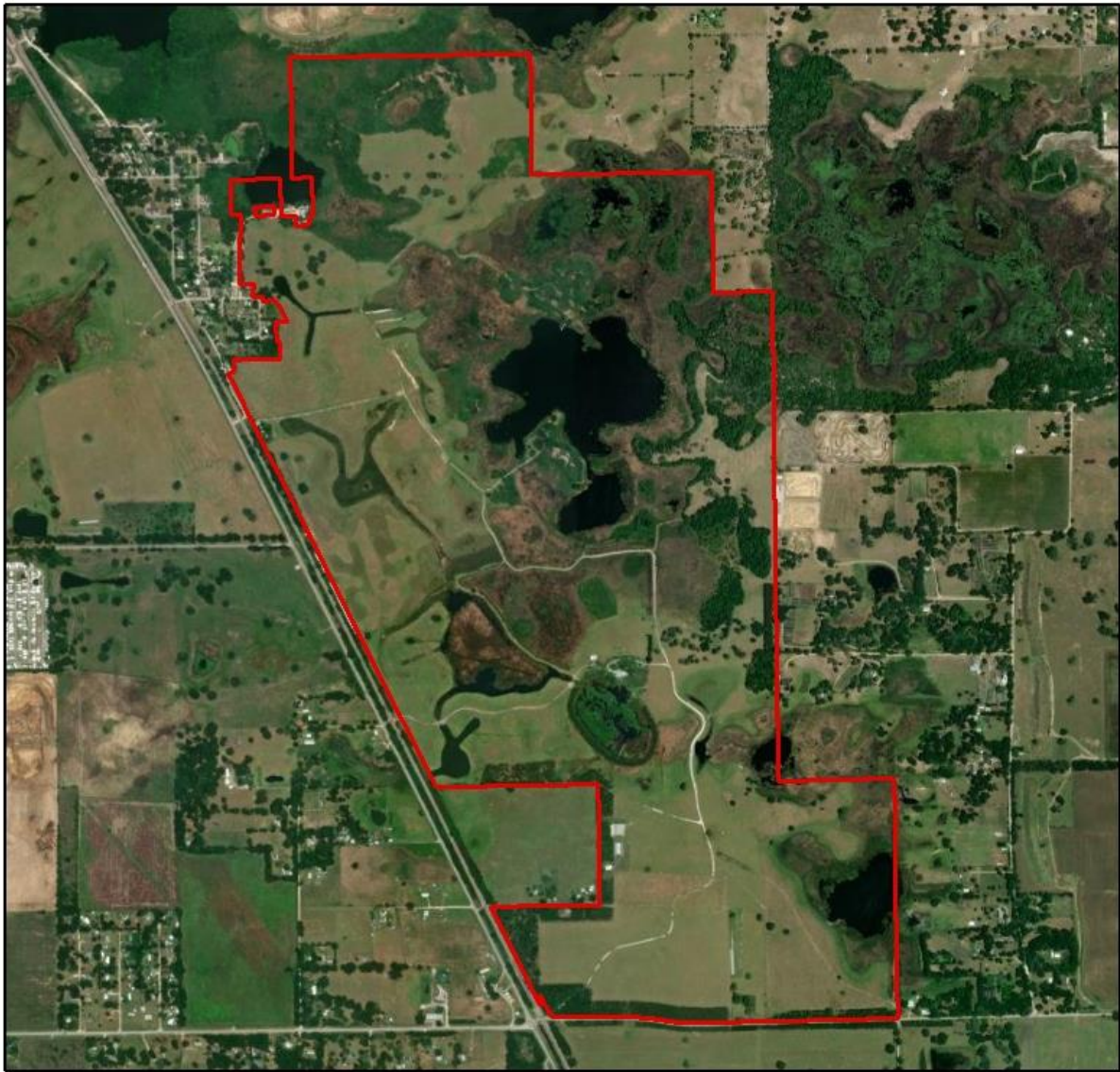


0 1 2 3 4 Miles

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Vicinity Map

-  Larkin Ranch Boundary
-  County Boundaries
-  Conservation Lands
-  Florida Forever Projects



Larkin Ranch
Florida Forever Project
 Pasco County
 1,075 Remaining Acres

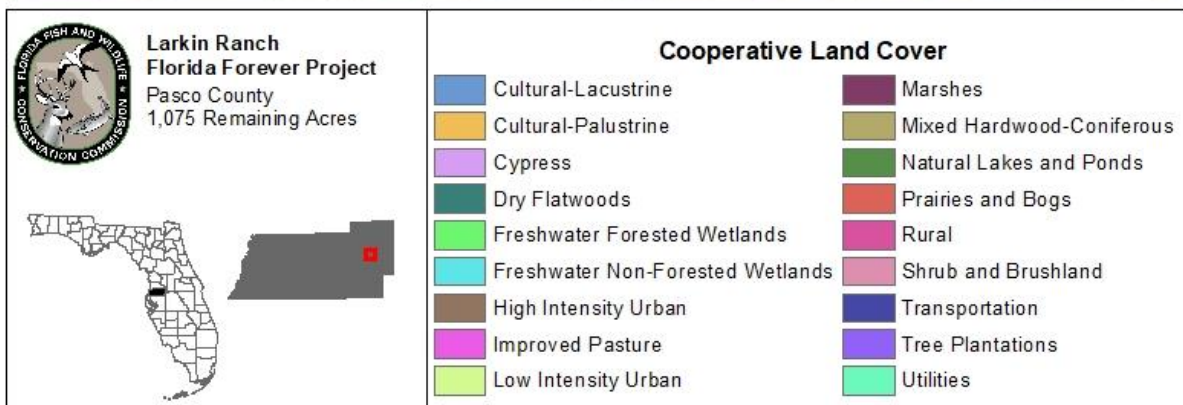
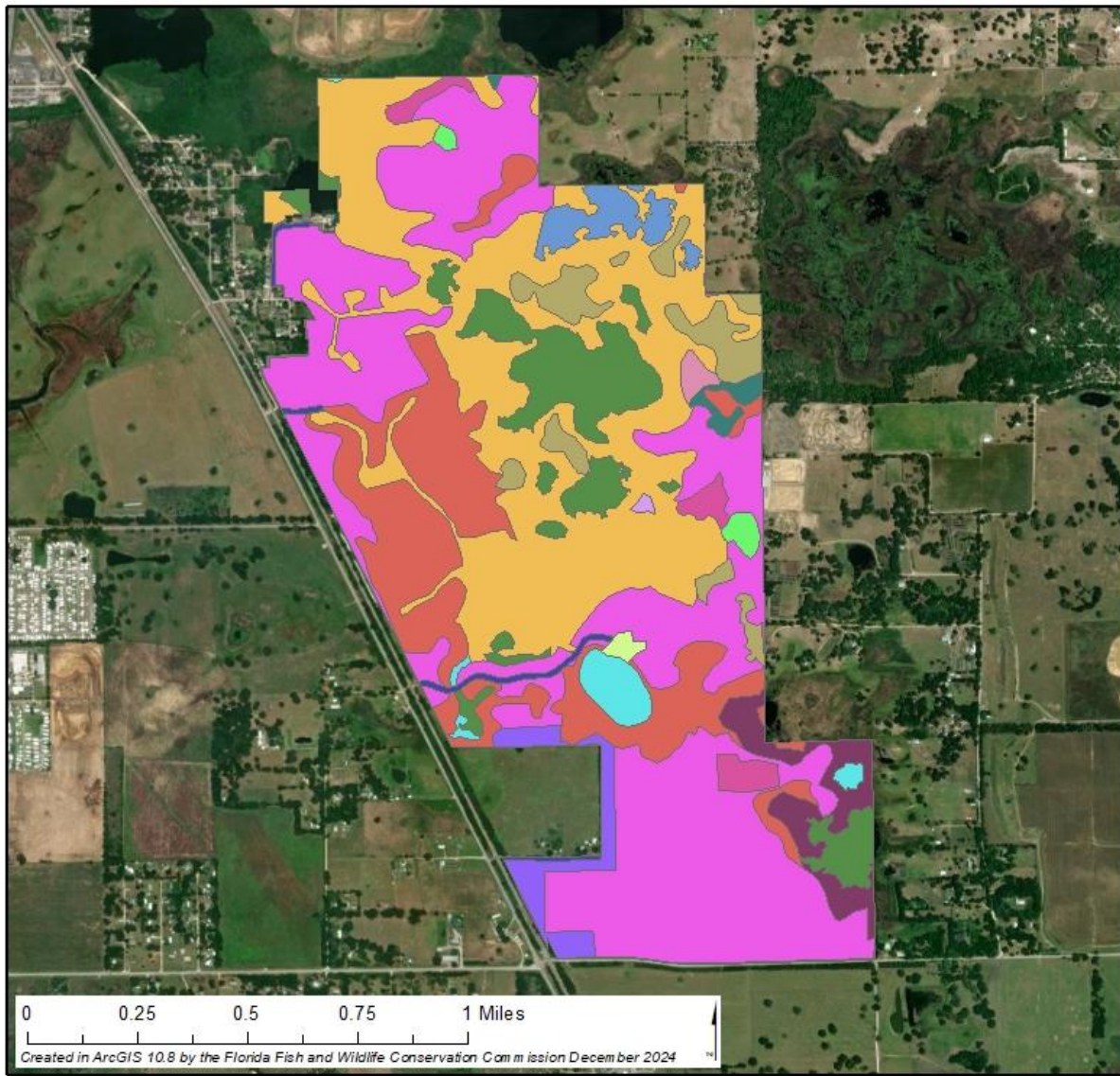


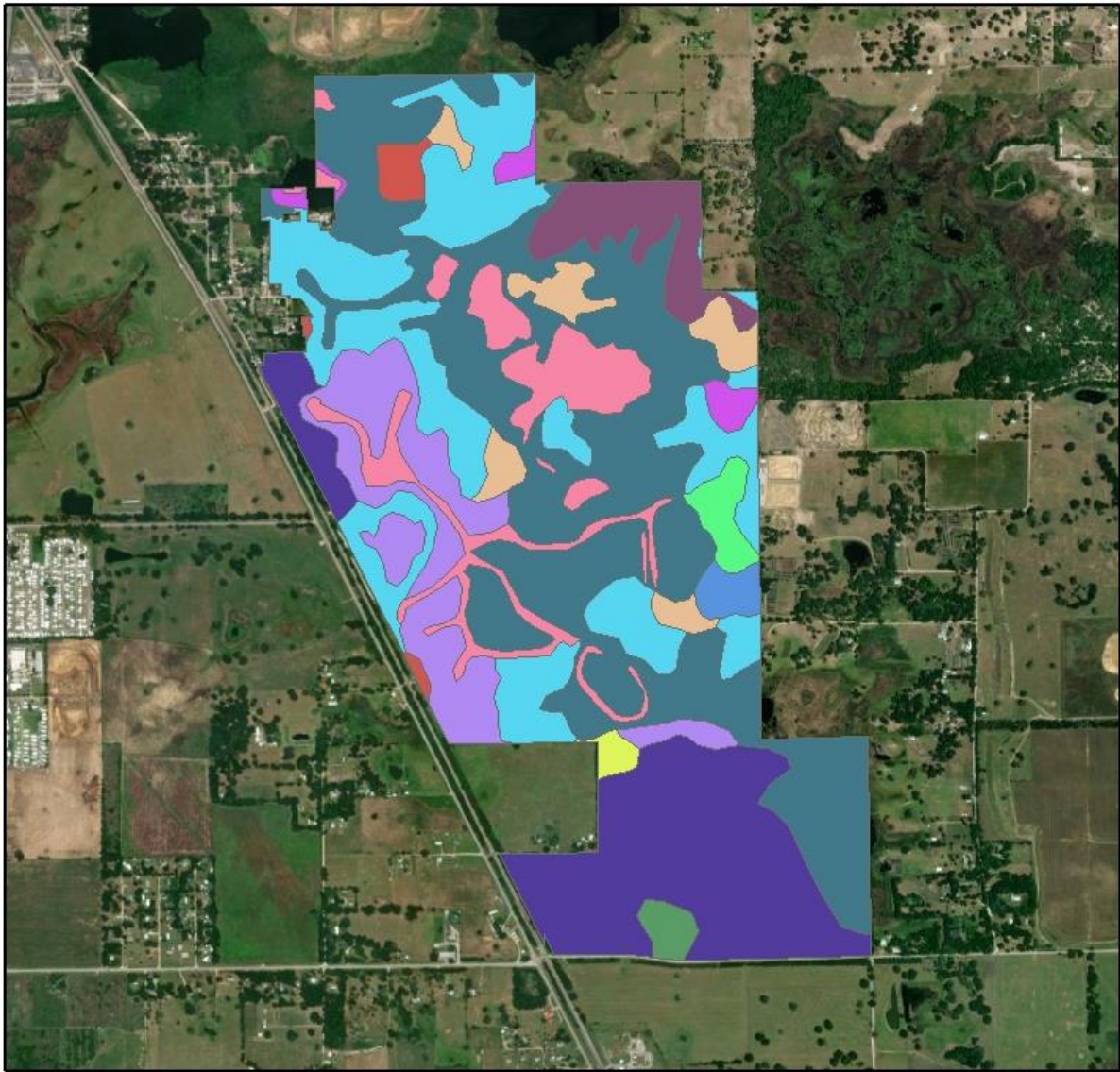
0 0.25 0.5 0.75 1 Miles

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Aerial Imagery

 Larkin Ranch Boundary





Larkin Ranch
Florida Forever Project
 Pasco County
 1,075 Remaining Acres

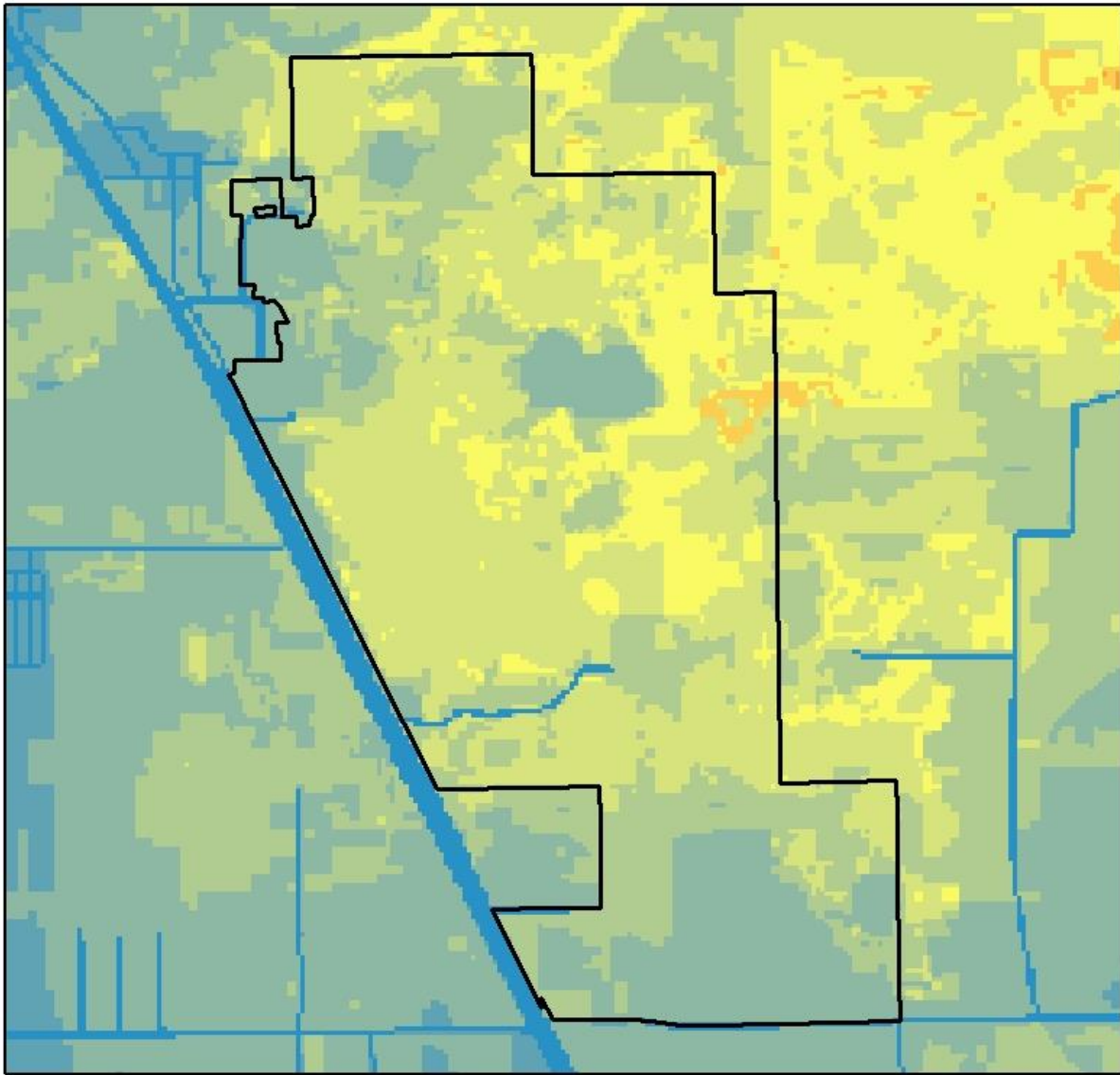


0 0.25 0.5 0.75 1 Miles

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Soil Types

Adamsville fine sand	Pomona fine sand
Arredondo fine sand	Samsula muck, frequently ponded
Basinger fine sand	Sellers mucky loamy fine sand
Candler fine sand	Sparr fine sand
Lake fine sand	Tavares sand
Millhopper fine sand	Water
Placid fine sand	



Larkin Ranch
Florida Forever Project
 Pasco County
 1,075 Remaining Acres



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	9.0
	1	0.1
	2	203.4
	3	257.2
	4	482.7
	5	116.2
	6	5.8
	7	0.0
	8	0.0
	9	0.0
	10	0.0
Mean FLAM value =	3.5	

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: 11082024 09:11:01

Shape Name: Unnamed polygon centered at -82.161914 °, 28.343161 °

Boundary Area: 1074.75 acres

Buffer Area: 0 acres

Total Area: 1074.75 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
Natural Lakes and Ponds	3100	Natural Lakes and Ponds	3100	81.85	7.62 %
Cultural-Lacustrine	3200	Artificial Impoundment/Reservoir	3220	18.73	1.74 %
Cultural-Palustrine	2400	Grazed Wetlands	2430	296.27	27.57 %
Freshwater Forested Wetlands	2200	Mixed Wetland Hardwoods	2233	1.41	0.13 %
Freshwater Forested Wetlands	2200	Mixed Hardwood-Coniferous Swamps	2240	3.83	0.36 %
Low Intensity Urban	1821	Residential, Low Density	18212	2.56	0.24 %
Tree Plantations	18333	Coniferous Plantations	183332	21.99	2.05 %
Transportation	1840	Transportation	1840	8.39	0.78 %
Improved Pasture	183313	Improved Pasture	183313	369.01	34.33 %
High Intensity Urban	1822	Residential, Med. Density - 2-5 Dwelling Units/AC	18221	0.68	0.06 %
Rural	1830	Rural Open Forested	18311	4.47	0.42 %
Shrub and Brushland	1500	Shrub and Brushland	1500	3.59	0.33 %
Rural	1830	Rural Open	1831	11.10	1.03 %
Mixed Hardwood-Coniferous	1400	Successional Hardwood Forest	1410	1.71	0.16 %
Dry Flatwoods	1310	Mesic Flatwoods	1311	6.28	0.58 %
Mixed Hardwood-Coniferous	1400	Mixed Hardwood-Coniferous	1400	38.15	3.55 %
Rural	1830	Rural Structures	1832	0.16	0.01 %
Freshwater Non-Forested Wetlands	2100	Floating/Emergent Aquatic Vegetation	2140	15.87	1.48 %
Cypress	2211	Cypress	2211	0.93	0.09 %
Marshes	2120	Marshes	2120	30.85	2.87 %
Utilities	1860	Utilities	1860	0.19	0.02 %
Prairies and Bogs	2110	Wet Prairie	2111	156.73	14.58 %
TOTAL:				1,074.75	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	230.98	21.49 %
CLIP P1 in submerged lands/state waters	0.15	0.01 %
CLIP P1 in terrestrial	55.06	5.12 %
CLIP P2 in submerged lands/state waters	2.36	0.22 %
CLIP P2 in terrestrial	783.01	72.86 %
TOTAL:	1,071.57	99.7 %

CLIP- Landscape Category

Priority	Total Area (acres)	Percent of Area
0	420.19	39.1 %
2	654.56	60.9 %
TOTAL:	1,074.75	100 %

CLIP- Biodiversity Category

Priority	Total Area (acres)	Percent of Area
0	41.35	3.85 %
1	33.17	3.09 %
2	663.59	61.74 %
3	330.26	30.73 %
4	6.38	0.59 %
TOTAL:	1,074.75	100 %

Priority FWC Strategic Habitat Conservation Areas 2024

No Records Found

FWC Strategic Habitat Conservation Areas 2024

No Records Found

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
Occasional	1,074.75	100 %
TOTAL:	1,074.75	100 %
Rare Fish		
No Records Found		
Rare Fish Imperiled Waters		
No Records Found		
Southern bald eagle nest		
No Records Found		
Imperiled Species Richness		
Number of Species	Total Area (acres)	Percent of Area
0	18.57	1.73 %
1	7.77	0.72 %
2	4.87	0.45 %
3	183.44	17.07 %
4	5.46	0.51 %
5	323.07	30.06 %
6	26.85	2.5 %
7	17.62	1.64 %
8	487.10	45.32 %
TOTAL:	1,074.75	100 %

Florida Natural Areas Inventory Data			
Element Occurrences			
No Records Found			
Suitable Habitat that Supports Species Known to Occur in the Vicinity			
COMMON NAME	SCIENTIFIC NAME	Total Area (acres)	Percent of Area
Florida Long-tailed Weasel	Mustela frenata peninsulae	291.10	27.09 %
Florida Sandhill Crane	Antigone canadensis pratensis	776.15	72.22 %
Wood Stork	Mycteria americana	299.91	27.9 %
TOTAL:		1,367.16	127.21 %

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			
No Records Found			

Water Resources					
FDEP Surface Water Classification					
Waterbody Name	Water Type	Water Basin	Classification	Total Area (acres)	Percent of Area
SUMNER LAKE	LAKE	1403A	3F	0.05	0 %
CLEAR LAKE OUTLET	STREAM	1403B	3F	1,069.01	99.47 %

DUCK LAKE CANAL	STREAM	1412	3F	5.69	0.53 %
			TOTAL:	1,074.75	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 POND		PAB3Hx	34.41		3.2 %
FRESHWATER POND		PAB3H	43.64		4.06 %
LAKE		L1UBH	35.68		3.32 %
FRESHWATER EMERGENT WETLAND		PEM1C	2.19		0.2 %
FRESHWATER EMERGENT WETLAND		PEM1F	353.96		32.93 %
FRESHWATER FORESTED/SHRUB WETLAND		PFO1/4A	3.80		0.35 %
FRESHWATER EMERGENT WETLAND		PEM1Fd	47.29		4.4 %
FRESHWATER FORESTED/SHRUB WETLAND		PFO4A	0.67		0.06 %
FRESHWATER FORESTED/SHRUB WETLAND		PSS1C	1.53		0.14 %
FRESHWATER FORESTED/SHRUB WETLAND		PFO7C	4.99		0.46 %
FRESHWATER POND		PUBHx	23.59		2.19 %
FRESHWATER POND		PUBH	19.12		1.78 %
RIVERINE		R5UBH	0.21		0.02 %
			TOTAL:	571.09	53.14 %
Priority Floodplain Resources					
Priority	Total Area (acres)			Percent of Area	
0	290.14			27 %	
3	0.04			0 %	
5	125.48			11.67 %	
6	7.73			0.72 %	
4	651.36			60.61 %	
TOTAL:	1,074.75			100 %	