Conservation Collier Initial Criteria Screening Report



Emily Arnold, Brian Blocker, Moody Crawford Trust
5 parcels
89.29 acres total

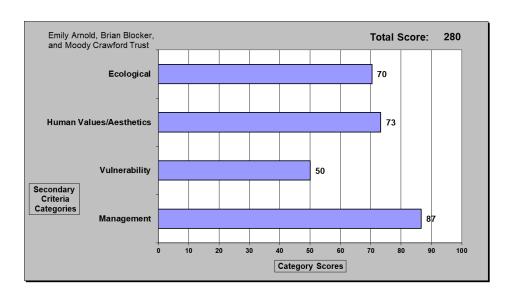
Folio Number(s):

Emily Arnold (00053808000) 5 acres

Brian Blocker (00053815006) 24.5 acres

Moody Crawford Trust (00053813008, 00053440002, & 00053805003) 59.79 acres

Staff Report Date: October 2021



Owner Name(s): Emily Arnold, Brian Blocker, Moody Crawford Trust

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I. Introduction

The Conservation Collier Program (Program) is an environmentally sensitive land acquisition and management program approved by the Collier County Board of County Commissioners (Board) in 2002 and by Collier County Voters in 2002 and 2006. The Program was active in acquisition between 2003 and 2011, under the terms of the referendum. Between 2011 and 2016, the Program was in management mode. In 2017, the Collier County Board reauthorized Conservation Collier to seek additional lands (2/14/17, Agenda Item 11B). On November 3, 2020, the Collier County electors approved the Conservation Collier Re-establishment referendum with a 76.5% majority.

Date: October 2021

This Initial Criteria Screening Report (ICSR) has been prepared for the Conservation Collier Program in its 10th acquisition cycle to meet requirements specified in the Conservation Collier Implementation Ordinance, 2002-63, as amended, and for purposes of the Conservation Collier Program. The sole purpose of this report is to provide objective data to demonstrate how properties meet the criteria defined by the ordinance.

The following sections characterize the property location and assessed value, elaborate on the initial and secondary screening criteria scoring, and describe potential funding sources, appropriate use, site improvements, and estimated management costs.

II. Summary of Property Information

Table 1: Summary of Property Information

Characteristic	Value	Comments
Name	Emily Arnold Brian Blocker	Three separate applications
	Moody Crawford Trust	
		Emily Arnold (00053808000) Brian Blocker (00053815006)
Folio Numbers	5 separate folio numbers	Moody Crawford Trust (00053813008, 00053440002, & 00053805003)
Target Protection Area	Pepper Ranch Preserve Rural Lands Habitat Stewardship Area	Rural Lands Stewardship Area
Size	Emily Arnold (5 acres) Brian Blocker (24.5 acres) Moody Crawford Trust (59.79 acres)	Total from all 3 owners 89.29 acres
Section, Township, and Range	Section 34, Township 46, Range 28	
Zoning Category/TDRs	A-MHO-RLSAO -Agricultural-Mobile home overlay and Rural Land Habitat Stewardship Area	
FEMA Flood Map Category	Emily Arnold- 50% AE and 50% AH Blocker-70% AE and 30% AH Moody Crawford Trust-90% AE 10% AH	AE=subject to periodic ponding 1-3 ft AH=subject to periodic inundation
Existing structures	none	

Owner Name(s): Emily Arnold, Brian Blocker, Moody Crawford Trust Date: October 2021

Adjoining properties and their Uses	Emily Arnold- N-Pepper Ranch Preserve and Trafford Oaks Road S-Moody Crawford Trust Parcels undeveloped E-undeveloped land W- single family home Blocker- N & E Pepper Ranch Preserve S- Lake Trafford W-Canal & Single Family Home Murphy Crawford Trust- N- 2- Single Family homes, Emily Arnold Parcel, another undeveloped parcel W- Pepper Ranch Preserve S- Undeveloped property	
Development Plans Submitted	None currently	
Known Property Irregularities	Small man-made lakes on the Moody parcel near Trafford Oaks Road and in the NW corner of the Blocker Parcel.	
Other County Dept Interest	Departments notified	No interest received

Figure 1: Location Overview

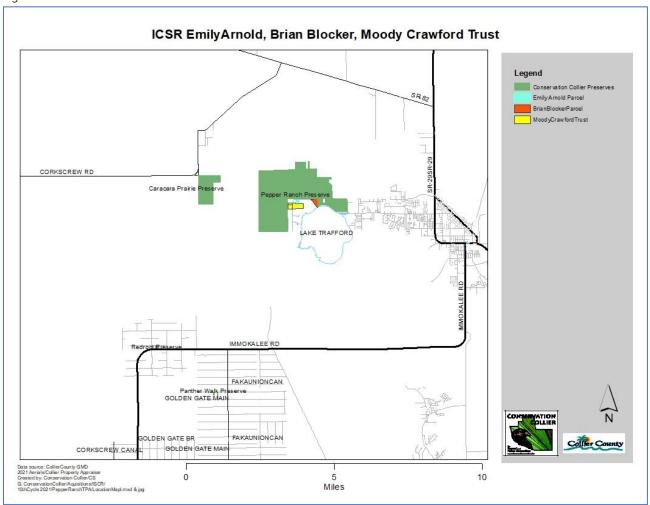


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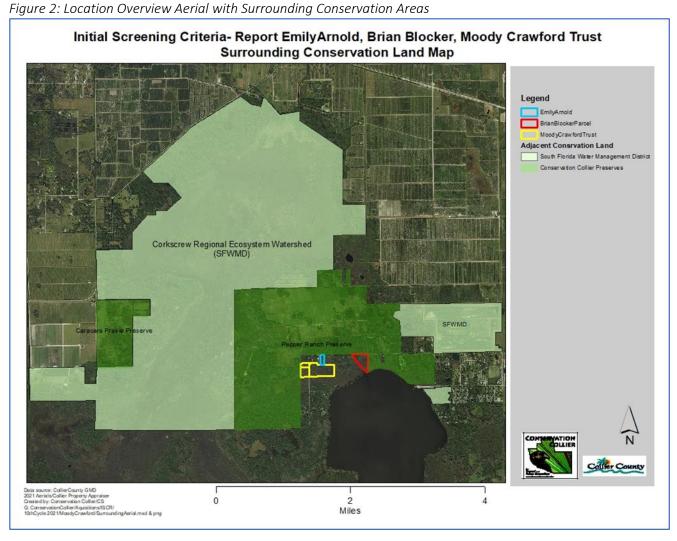
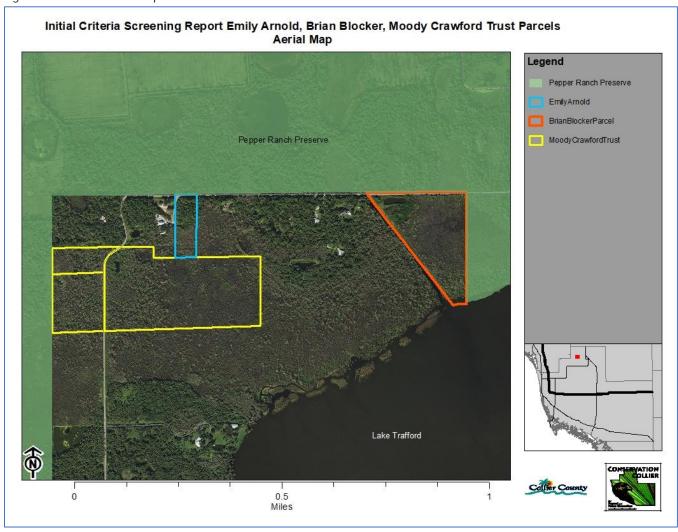


Figure 3: Location Close-up Aerial



Summary of Assessed Value and Property Costs Estimates

Date: October 2021

The interest being appraised is fee simple "as is "for the purchase of the site(s). A value of the parcel was estimated using only one of the three traditional approaches to value, the sales comparison approach. Each is based on the principal of substitution that an informed purchaser would pay no more for the rights in acquiring a particular real property than the cost of acquiring, without undue delay, an equally desirable one. Three properties were selected for comparison, each with similar site characteristics, utility availability, zoning classification and road access. No inspection was made of the property or comparables used in this report and the Real Estate Services Department staff relied upon information solely provided by program staff. The valuation conclusions are limited only by the reported assumptions and conditions that no other known or unknown adverse conditions exist. Pursuant to the Conservation Collier Purchase Policy, two appraisals are required.

Table 2: Assessed Value*

Property owner	Folio	Acreage	Assessed Value
Emily Arnold	00053808000	5	\$9,175
Brian Blocker	00053815006	24.5	\$22,050
Moody Crawford Trust	00053813008	5.46	\$12,173
Moody Crawford Trust	00053440002	42.9	\$13,153
Moody Crawford Trust	00053805003	11.43	\$3,522
Total	5	89.29	\$60,073

^{*} Property Appraiser's Website

The Assessed Value is based off the current use of the property.

Estimated Market Value: ** ESTIMATED MARKET VALUE" IS SOLELY AN ESTIMATE OF VALUE AND SHOULD NOT BE RELIED UPON BY ANY ENTITY.

Property	Acreage	Estimated Value
Emily Arnold	5	\$39,000
Brian Blocker	24.5	\$191.000
Jim Howard Moody	5.46	\$42,600
Jim Howard Moody	42.9	\$334,600
Jim Howard Moody	11.43	\$89,200
Total	89.29	\$696,400

Vacant land acreage in this market area is \$7,000 to \$8,000 per acre.

Zoning, Growth Management and Conservation Overlays

Zoning, growth management and conservation overlays will affect the value of a parcel. This parcel is zoned Agricultural with a mobile home overlay. It is within an established growth management overlay known as the Rural Lands Stewardship Area. The properties are not within an established Stewardship area.

^{*} Property Appraiser's Website

^{**} Collier County Real Estate Services Department

III. Statements for Satisfying Initial Screening Criteria

The purpose of this section is to provide a closer look at how the property meets initial criteria. Conservation Collier Program staff conducted a site visit on September 22, 2021.

Criteria 1: Native Habitats

Are any of the following unique and endangered plant communities found on the property? Order of preference as follows: Ord. 2002-63, Sec. 10 (1)(a)

i.	Hardwood hammocks	No
ii.	Xeric oak scrub	No
iii.	Coastal strand	No
iv.	Native beach	No
٧.	Xeric pine	No
vi.	Riverine Oak	No
vii.	High marsh (saline)	No
viii.	Tidal freshwater marsh	No
ix.	Other native habitats	<u>Yes</u>

approximately 7 types of native vegetation communities mapped

Vegetative Communities

Staff used two methods to determine native plant communities present: review of South Florida Water Management District (SFWMD) electronic databases for Department of Transportation's Florida Land Use, Cover and Forms (FLUCCS) (1994/1995) and field verification of same.

FLUCCS

The electronic database identified:

- 1180-Residential-low density
- 4110-Pine Flatwoods
- 5200-Lakes
- 6172-Mixed Shrub wetland
- 6210-Cypress
- 6410-Freshwater Marsh
- 6440- Emergent Aquatic Vegetation

The following native plant communities were observed:

- 420-Mesic Hammock
- 5200-Lakes
- 6172-Mixed Shrub wetland
- 6410-Freshwater Marsh
- 6440- Emergent Aquatic Vegetation
- 6151-Red Maple swamp
- 6152-Pop ash swamp

Characterization of Plant Communities Present

FLUCCS	Ground cover	Midstory	Canopy
420- Mesic Hammock	swamp fern	myrsine	slash Pine
	Virginia creeper	hog Plum	cabbage palm
	smilax	wild Coffee	laurel oak
	bidens alba	beauty berry	ficus aurea
		swamp bay	
6172 Mixed shrub wetland	ferns	wax myrtle	willow
6410 freshwater marsh	duck potato, pickerelweed climbing aster sedges		pond apple
6440- Emergent Aquatic Vegetation	none	cattails, willow	none
5200-Lakes	Submergent vegetation	none	none
6152-Pop ash swamp	duck potato, pickerelweed water hemlock swamp fern alligator flag	sawgrass sax myrtle	pop ash
6151-Red Maple Swamp	swamp lily duckpotato, pickerelweed water hemlock swamp fern alligator flag	wax myrtle sawgrass	red maple

Statement for Satisfaction of Criteria

These data indicate that native plant communities do exist on the parcels. At least seven (7) distinct types of vegetation communities were observed, along with many transitional areas containing a mix of vegetation types. Some plant communities were viewed from a distance due to deep water levels, such as the mixed shrub wetlands with a willow canopy.

Criteria 2: Human Social Values

Does land offer significant human social values, such as equitable geographic distribution, appropriate access for nature-based recreation, and enhancement of the aesthetic setting of Collier County? Ord. 2002-63, Sec. 10 (1)(b) YES

Statement for Satisfaction of Criteria

These parcels are adjacent to the 2,512 acre Pepper Ranch Preserve which provides multiple opportunities for passive public recreation. These parcels would increase the size of the Preserve if acquired. All five parcels can be accessed via Trafford Oaks Road, a private paved road. This road has a security gate that would limit public access but would allow access to the properties for management.

The Emily Arnold parcel can only be accessed from Trafford Oaks Road. There is an agricultural fence along the north side of Trafford Oaks road along the southern boundary of Pepper Ranch Preserve which is necessary to keep cattle in.

The Blocker parcel can be directly accessed through the Pepper Ranch Preserve west of the main campground. There are no trails in this area due to an active bald eagle's nest, however limited public access during non-nesting season would be permittable. This property can also be accessed directly from Lake Trafford.

Date: October 2021

The Moody Crawford trust parcels can also be accessed directly from the Pepper Ranch Preserve along the southeastern boundary. Trafford Oaks Road runs through the center of the 3 parcels

Criteria 3: Water Resources

Does the property offer opportunities for protection of water resource values, including aquifer recharge, water quality enhancement, protection of wetland dependent species habitat, and flood control? Ord. 2002-63, Sec. 10 (1)(c) YES

General Hydrologic Characteristics

General characteristics are taken from aerial maps and from onsite observations. A site visit conducted on September 22, 2021 confirmed the presence of high-quality wetlands on all 5 properties. Wetland dependent plant and animal species were observed, and the water levels were significant for this time of the year.

Table 3: Wetland Dependent Plant Species Observed

Common Name	Scientific Name	Wetland Status
strangler fig	Ficus aurea	FAC
musky mint	Hyptis alata	FAC
wax myrtle	Myrica cerifera	FAC
wild coffee	Psychotria nervosa	FAC
cabbage palm	Sabal palmetto	FAC
myrsine	Myrsine guianensis	FAC
red maple	Acer rubrum	FACW
blue maidencane	Amphicarpum muhlenbergianum	FACW
bushy blue stem	Andropogon glomeratus	FACW
swamp fern	Blechnum serrulatum	FACW
toothpetal false rein orchid	Habenaria floribunda	FACW
laurel oak	Quercus Laurifolia	FACW
white top sedge	Rhynchospora colorata	FACW
leather fern	Acrostichum spp.	OBL
pond apple	Annona glabra	OBL
water hemlock	Cicuta maculata	OBL
sawgrass	Cladium jamaicense	OBL
swamp lily	Crinum americanum	OBL
Jointed spikerush	Eleocharis interstincta	OBL
pop ash	Fraxinus carloliniana	OBL
dahoon holly	Ilex cassine	OBL
Royal fern	Osmunda regalis var. spectabilis	OBL
swamp bay	Persea palustris	OBL
smart weed	Polygonum sp.	OBL
pickerelweed	Pontederia cordata	OBL
duck potato	Saggitaria latifolia	OBL
willow	Salix spp.	OBL
alligator flag	Thalia spp.	OBL
cattails	Typha spp.	OBL

OBL = Obligate Species, FACW = Facultative Wet Species, FAC = Facultative Species

Table 4: Wetland Dependent Wildlife Species Observed

Common Name	Scientific Name	State Status	Federal Status
crayfish	Procambarus alleni	NL	NL
eastern mosquitofish	gambusia	NL	NL
Florida gar	Lepisosteus platyrhincus	NL	NL

NL=not listed

Other Hydrologic Indicators Observed

During the September 2021 site visit, water levels ranged between 2-5 feet on the Blocker, Moody Crawford Trust and the southern portion of the Emily Arnold parcels. All parcels had elevated lichen lines and multiple species of aquatic plants and fauna.

Soils

Soils data is based on the Soil Survey of Collier County Area, Florida (USDA/NRCS, 1990). Soil numbers correspond to those mapped in the survey.

Soil Type	Typical Vegetation	
6 Riviera, Limestone Substratum – Copleand FS	cypress, red maple, ferns and other wetland plants	
Slough		
22 Chobee, winder and Gator Soils,	Pickerelweed, maidencane, rushes, alligator flag,	
Depressional	sawgrass, Florida willow and occasional cypress	
37 Tuscawilla FS – Upland	oaks, cabbage palm, red maple, red bay, slash pine,	
	wax myrtle, and native grasses	
43 Winder, Riviera, Limestone Substratum and	sawgrass, maidencane, pickerelweed, alligator flag,	
Chobee FS, Depressional (lakefront)	willow and other wetland plants	
20- Ft. Drum and Malabar, High, Fine Sands	red maple, willow and other wetland plants	

Aquifer Recharge Potential

Aquifer recharge map data was developed by Fairbank, P. and S. Hohner in 1995 and published as Mapping recharge (infiltration and leakage) throughout the South Florida Water Management District, Technical publication 95-20 (DRE # 327), South Florida Water Management District, West Palm Beach, Florida.

Lower Tamiami recharge Capacity: The Emily Arnold and Blocker parcels are mapped at "7 to < 14" annually. The western 2/3 of the Moody Trust parcels are mapped at "0 to < 7" annually and the eastern 1/3 are mapped at "7 to < 14" annually.

Surficial Aquifer Recharge Capacity: All properties were mapped at a moderate recharge capacity of 43 to 56" annually.

Table 5: Aquifer Recharge, Wellfield Protection, and FEMA Flood Zone Characteristics

Characteristic	Value	Comment
Lower Tamiami Recharge Capacity	"0 to < 7" & "7 to < 14"	Low & low to moderate
Surficial Aquifer Recharge Capacity	43 to < 56"	moderate
Wellfield Protection Zone	n/a	n/a
FEMA Flood Zone	Emily Arnold- 50% AE and 50% AH Blocker-70% AE and 30% AH Moody Crawford Trust-90% AE 10% AH	AE=subject to periodic ponding 1-3 ft AH=subject to periodic inundation

Statement for Satisfaction of Criteria

Acquisition of these properties would offer increased opportunities for protection of water resource values, including recharge of the surficial aquifer and protection of wetland dependent species habitat. The aerial map and land cover layer indicates that 90 percent of these properties contain wetlands. They would provide habitat for wetland dependent species most of the year. A primary benefit to preserving the offered lands in an undeveloped state would be additional protection of the Corkscrew swamp and marsh complex, and wetlands associated with Lake Trafford. The Corkscrew swamp and marsh complex provide recharge for the Lower Tamiami aquifer, a source of drinking water for many County and private wells east of County Road 951. Acquisition of these parcels would add to the protection of the quality of this water source by increasing the buffering of the Corkscrew slough from development and non-point source pollution. The properties provide natural flood protection.

Criteria 4: Biological and Ecological Value

Does the property offer significant biological values, including biodiversity, listed species habitat, connectivity, restoration potential and ecological quality?

Ord. 2002-63, Sec. 10 (1)(d) YES

Listed Plant Species

The federal authority to protect land-based plant species is administered by the U.S. Fish and Wildlife Service (FWS) and published in 50 Code of Federal Regulations (CFR) 23. Lists of protected plants can be viewed on-line at the Atlas of Florida Plants websites at https://florida.plantatlas.usf.edu/ or at https://www.fws.gov/endangered/ The Florida state lists of protected plants are administered and maintained by the Florida Department of Agriculture and Consumer Services (FDACS) via chapter 5B-40, Florida Administrative Code (F.A.C.) and can be found on their website.

Table 6: Observed Listed Plant Species

Common Name	Scientific Name	State Status	Federal Status
Leather fern	Acrostichum spp.	Threatened	n/a
Cardinal airplant	Tillandsia fasciculata	Endangered	n/a
Giant airplant	Tillandsia utriculata	Endangered	n/a
Northern needleleaf	Tillandsia balbisiana	Threatened	n/a
Florida butterfly orchid	Encyclia tampensis	Commercially exploited	n/a
Royal fern	Osmunda regalis var. spectabilis	Commercially exploited	n/a

<u>Listed Wildlife Species</u>

Federal wildlife species protection is administered by the FWS with specific authority published in 50 CFR 17. Lists of protected wildlife can be viewed on-line at: https://www.fws.gov/endangered/

FWC maintains the Florida state list of protected wildlife in accordance with Rules 68A-27.003, 68A-27.004, and 68A-27.005, respectively, of the Florida Administrative Code (F.A.C.). A list of protected Florida wildlife species can be viewed at: http://myfwc.com/wildlifehabitats/imperiled/profiles/.

Table 7: Observed Listed Wildlife Species

Common Name	Scientific Name	Conservation Status
None observed on date of site visit		

Table 8: Potential Listed Wildlife Species

Common Name	Scientific Name	Conservation Status
American alligator	Alligator mississippiensis	FT (S/A)
Audubon's crested caracara	Haematopus palliatus	FT
Florida Panther	Puma concolor coryi	FE
Little blue heron	Egretta caerulea	ST
Roseate spoonbill	Platalea ajaja	ST
Tricolored heron	Egretta tricolor	ST
Everglade snail kite	Rostrhamus sociabilis plumbeus	FE
Wood stork	Mycteria americana	FT

FE= Federally-designated endangered FT(S/A) = Federally-designated Threatened species (due to similarity of appearance), FT=Federally-designated Threatened, ST = State-designated Threatened

Table 9: Non-Listed Wildlife Species Observed

Common Name	Scientific Name
American redstart	Setophaga ruticilla
Barred Owl	Strix varia
Black-bellied whistling duck	Dendrocygna autumnalis
Green heron	Butorides virescens
Red-shouldered hawk	Buteo lineatus
Carolina wren	Thryothorus Iudovicianus
Blue-gray gnatcatcher	Polioptila caerulea
Crayfish	Procambarus alleni
Eastern mosquitofish	Gambusia spp.
Florida gar	Lepisosteus platyrhincus

Bird Rookery

No Bird Rookeries were directly observed.

FWC-derived Species Richness Score

This area has scores ranging from 6 to 10, indicating moderate to high potential for species richness. The entire ranch area is located within Priority 1 Panther Habitat as determined by both state and federal conservation agencies. They are also located within the Bonneted Bat, Everglade kite and Audubon's Crested Caracara consultation Areas.

Statement for Satisfaction of Criteria

These parcels would provide significant biological values, listed species habitat, restoration potential and moderate to high ecological quality. We can assume that the same important wildlife species documented on the adjacent Pepper Ranch also utilize these properties including the endangered Florida Panther, Everglade snail kite, wood stork, black bear and multiple bird species. This location is within Priority One Panther Habitat by the Federal and state conservation agencies, sightings, telemetry points, and presence of prey species indicate that

this area is heavily used by panthers. There is restoration potential for forested areas impacted by invasive exotic plants. These parcels are adjacent to significant County, State, and private conservation lands.

Date: October 2021

Criteria 5: Enhancement of Current Conservation Lands

Does the property enhance and/or protect the environmental value of current conservation lands through function as a buffer, ecological link or habitat corridor? Ord. 2002-63, Sec. 10 (1)(e) **YES**

Is this property within the boundary of another agency's acquisition project? **No**

If yes, will use of Conservation Collier funds leverage a significantly higher rank or funding priority for the parcel?

Statement for Satisfaction of Criteria

These parcels are adjacent to and would contribute to an important wildlife corridor through the adjacent Pepper Ranch Preserve and other state-owned conservation land. Preservation and restoration of these parcels would add to the conservation land buffer protecting the Corkscrew Regional Ecosystem Watershed (CREW). This consists of over 60,000 acres of South Florida Water Management District lands. The CREW Marsh wetlands are also an ecological link and corridor into the Camp Keais Strand and other conservation lands to the south.

IV. Potential Uses and Recommended Site Improvements

Potential Uses

Potential Uses as Defined in Ordinance No. 2002-67, as amended by Ordinance No. 2007-65, section 5.9:

Table 10: Appropriate Uses

Activity	Appropriate	Comments
Hiking	х	
Photography	х	
Birdwatching	х	
Kayaking/Canoeing		Not advisable due to a large alligator population
Swimming		Not advisable due to a large alligator population
Hunting		Hunting is allowed on the adjacent Pepper Ranch Preserve however, these particular parcels are too close to houses on Trafford Oaks Road
Fishing	х	

Recommended Site Improvements

No site improvements are recommended. The properties are in good condition and will only need exotic plant removal and treatment.

Access

The properties can be directly accessed for management from Trafford Oaks Road. The Blocker parcel can be directly accessed through the Pepper Ranch Preserve west of the main campground. There are no trails in this area due to an active bald eagle's nest, however limited public access during non-nesting season would be permittable. This property can also be accessed directly from Lake Trafford.

The Moody Crawford trust parcels can also be accessed directly from the Pepper Ranch Preserve along the southeastern boundary.

Date: October 2021

V. Assessment of Management Needs and Costs

Management of this property will address the costs of exotic vegetation removal and control. The following assessment addresses both the initial and recurring costs of management. These are very preliminary estimates; Ordinance No. 2002-67, as amended by Ordinance No. 2007-65, requires a formal land management plan be developed for each property acquired by Conservation Collier.

Non-native Vegetation

Non-native, invasive species noted here are taken from the Florida Exotic Pest Plant Council's (FLEPPC) 2016 List of Invasive Plant Species (Category I and Category II). FLEPPC is an independent incorporated advisory council created to support the management of invasive exotic plants in Florida's natural areas by providing a forum for exchanging scientific, educational, and technical information. Its members come primarily from public educational institutions and governmental agencies. Annual lists of invasive plant species published by this organization are used widely in the state of Florida for regulatory purposes.

The current FLEPPC list (2019) can be viewed on-line at http://bugwoodcloud.org/CDN/fleppc/plantlists/2019/2019 Plant List ABSOLUTE FINAL.pdf

Category I plants are those which are altering native plant communities by displacing native species, changing community structures or ecological functions, or hybridizing with natives. This definition does not rely on the economic severity or geographic range of the problem, but on the documented ecological damage caused. Category II invasive exotics have increased in abundance or frequency but have not yet altered Florida plant communities to the extent shown by Category I species. These species may become Category I if ecological damage is demonstrated.

Table 11: Non-native Plant Species Observed

Common Name	Scientific Name	FLEPPC Status
Air potato	Dioscorea bulbifera	1
Brazilian pepper	Schinus terebinthifolia	1
Caesar's weed	Urena lobata	1
Climbing cassia	Senna pendula	1
Lead tree	Leucaena leucocoephala	1
Old world climbing fern	Lygodium microphyllum	1
Para grass	Urochloa mutica	1
Water hyacinth	Eichhornia crassipes	1
Peruvian primrose-willow	Ludwigia peruviana	1
Water lettuce	Pistia stratiotes	1
Sword fern	Nephrolepis spp.	1
Lantana	Lantana camara	1
Cogongrass	Imperata cylindrica	1
Creeping oxeye	Sphagneticola trilobata	II
Guineagrass	Urochola maxima	II

Category 1=I Category 2=II

Invasive Vegetation Removal and Control

A cost estimate for initial invasive exotic plant treatment and follow-up maintenance was determined based on actual costs for similar work at the Pepper Ranch Preserve. The upland acreage on the properties are the most impacted, the wetland areas have a very low amount of infestation on the majority of the properties. The Blocker property has the highest level of infestation. There is a hedge of Brazilian Pepper along the road frontage of each property that would be mowed in place or cut and removed. The remainder of the exotics would be killed in place. Based on the actual cost for initial exotic removal on similar projects, costs for the initial removal over the 89 acres is estimated to be **\$44,500**. This is a high estimate.

Estimated costs for follow-up maintenance, done anywhere from quarterly to annually are based on actual costs for follow-up exotic maintenance at the Pepper Ranch Preserve and are estimated at a total of \$17,800 annually. These costs would decrease over time as the soil seed bank is depleted. Additionally, areas would be maintained on a rotating basis, reducing actual annual maintenance outlays, but reducing treatment for each section from annually to bi-annually. Prices would be reduced as well due to economy of scale by including them in the annual Pepper Ranch Preserve phased treatment areas.

Staff will seek grant funding from the Florida Invasive Plant Management Section of the Florida Wildlife Conservation Commission to assist with invasive exotic plant treatment costs.

Public Parking

We will not need create public parking on these parcels. There is a visitor center with public parking on the Pepper Ranch Preserve and several public parking areas throughout the preserve. The public will not be accessing these properties via Trafford Oaks Road.

Public Access Trails

Trails will not be created on these properties. The adjacent Pepper Ranch Preserve has over 10 miles of trails nearby that are representative of the same types of habitat.

Security and General Maintenance

There is a private gate at the end of Trafford Oaks Road this will assist greatly in reducing the potential of dumping and illegal trespassing on the properties. Signs will be posted to indicate that is preserve land.

We will work with the Collier County Sherriff's office and FWC Law Enforcement to address issues of concern along Trafford Oaks Road and along the Lake Trafford shoreline.

Table 12: Summary of Estimated Needs and Costs

Management Element	Initial Cost	Annual Recurring Cost	Comments
Invasive Vegetation			Estimated cost, initial treatment will be the most expensive,
invasive vegetation	\$44,500	\$17,800	follow-up maintenance on an annual or bi-annual basis.
Parking Facility	n/a	n/a	Not needed
Trails	n/a	n/a	Not needed
Fencing	n/a	n/a	Not needed
Debris Removal	minimal	minimal	Minimal amounts found
Signs	\$500	t.b.d.	Conservation Collier Preserve Signs
Other	t.b.d	t.b.d	
Total	\$45,000	\$17,800	

t.b.d. To be determined; cost estimates have not been finalized.

VI. Potential for Matching Funds

The primary partnering agencies for conservation acquisitions, and those identified in the ordinance are the Florida Communities Trust (FCT), and The Florida Forever Program. The following highlights potential for partnering funds, as communicated by agency staff:

Florida Communities Trust - Parks and Open Space Florida Forever grant program

The FCT Parks and Open Space Florida Forever grant program provides grant funds to local governments and nonprofit organizations to acquire conservation lands, urban open spaces, parks and greenways. Application for this program is typically made for pre-acquired sites up to two years from the time of acquisition. The Parks and Open Space Florida Forever grant program assists the Department of Environmental Protection in helping communities meet the challenges of growth, supporting viable community development and protecting natural resources and open space. The program receives 21 percent Florida Forever appropriation.

Florida Forever Program

Staff has been advised that the Florida Forever Program has limited funds and is concentrating on parcels already included on its ranked priority list. This parcel is not inside a Florida Forever priority project boundary. Additionally, the Conservation Collier Program has not been successful in partnering with the Florida Forever Program due to conflicting acquisition policies and issues regarding joint title between the programs.

VII. Summary of Secondary Screening Criteria

Ecological

70/100

These properties scored high in this category for several reasons. They has a wide variety of native plant communities, even though none are the preferred habitats described in the ordinance. There are outstanding areas of mature pop ash and red maple swamp wetlands on more than one parcel. The Arnold parcel contains a Mesic Hammock which is an FNAI listed plant community. Acquisition of these parcels would protect water resources by buffering the Corkscrew marsh area and Lake Trafford. Moderate aquifer recharge is mapped for the Lower Tamiami aquifer, supplying drinking water for many private and municipal wells east of CR 951. Many listed and non-listed species of wildlife have been documented on the parcels. High quality wetlands exist on site. Ecological quality is high, with a manageable exotic plant presence. Connectivity exists with other conservation lands.

Human Values/Aesthetics

73/100

A high score was achieved in this category because the properties are accessible from a paved public road for management. They will add to multiple opportunities for natural-resource based recreation if they become part of the Pepper Ranch Preserve.

Vulnerability

50/100

These parcels received a medium score in this category due the Emily Arnold Parcel containing uplands that could potentially be developed. The FLUCCS category for the northern portion of this parcel is Residential-low density.

Owner Name(s): Emily Arnold, Brian Blocker, Moody Crawford Trust Date: October 2021

Management

87/100

A high score was given for no hydrologic changes required combined with a high score for exotic plant management needs with up to a 25% exotic plant infestation.

Property Name: Emily Arnold, Brian Blocker, and Moody Crawford Trust						
Target Protection Area:	Pepper	Ranch Pres	erve			
	Possible	Scored				
Secondary Screening Criteria	Points	Points	Percent of Possible Score			
Ecological	100	70	70%			
Human Values/Aesthetics	100	73	73%			
Vulnerability	100	50	50%			
Management	100	87	87%			
Total Score:	400	280	70%			

Parcel Size

While parcel size was not scored, the ordinance advises that based on comparative size, the larger of similar parcels is preferred. These parcels combined are comparable to the size of the Conservation Collier Nancy Payton Preserve. If acquired, these parcels would increase the acreage of the Pepper Ranch Preserve from the current 2,512 acres to 2,601 acres.

VIII. Figures, Tables, and Photos

Scoring

Table 14: Secondary Scoring Criteria Form

Table 14: Secondary Scoring Criteria Form			
Property Name:			Folio Numbers:
Emily Arnold, Brian Blocker, and Moody Crawford Trust			53808000
			53815006
Geographical Distribution (Target Protection Area):			53813008
Pepper Ranch Preserve			53440002
			53805003
1. Confirmation of Initial Screening Criteria (Ecologi	cal)		
1.A Unique and Endangered Plant Communities	Possible points	Scored points	Comments
Select the highest Score:			
Tropical Hardwood Hammock	90		
2. Xeric Oak Scrub	80		
3. Coastal Strand	70		
Native Beach	60		
5. Xeric Pine	50		
Riverine Oak	40		
7. High Marsh (Saline)	30		
8. Tidal Freshwater Marsh	20		
9. Other Native Habitats	10	10	
10. Add additional 5 points for each additional Florida Natural Areas			
Inventory (FNAI) listed plant community found on the parcel	5 each	5	FNAI Mesic Hammock- G3-S3
11. Add 5 additional points if plant community represents a unique			
feature, such as maturity of vegetation, outstanding example of plant	5	5	Outstanding areas of Pop Ash and Red Maple Swamp wetlands
	5	3	on 3 parcels
community, etc.	100	20	
1111111111			
1.B Significance for Water Resources	Possible	Scored	Comments
1.B Significance for Water Resources			
Significance for Water Resources Aquifer Recharge (Select the Highest Score)	Possible	Scored	
1.B Significance for Water Resources 1. Aquifer Recharge (Select the Highest Score) a. Parcel is within a wellfield protection zone	Possible points	Scored points	Comments
1.B Significance for Water Resources 1. Aquifer Recharge (Select the Highest Score) a. Parcel is within a wellfield protection zone b. Parcel is not in a wellfield protection zone but will contribute to	Possible points	Scored	Comments Recharge capacity of 43-56" annually for surficial; and "0 to < 7"
1.B Significance for Water Resources 1. Aquifer Recharge (Select the Highest Score) a. Parcel is within a wellfield protection zone b. Parcel is not in a wellfield protection zone but will contribute to aquifer recharge	Possible points 100 50	Scored points	Comments
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Date: October 2021

Subtotal

1.B Total

300

82 Obtained by dividing the subtotal by 3.

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tiees, halive howeling plants, or archeological site	1. Access (Select the Highest Score) a. Parcel has access from a paved road b. Parcel has access from an unpaved road c. Parcel has seasonal access only or unimproved access easement d. Parcel does not have physical or known legal access 2. Recreational Potential (Select the Highest Score) a. Parcel offers multiple opportunities for natural resource-based recreation consistent with the goals of this program, including but not limited to, environmental education, hiking, nature photography, bird watching, kayaking, canoeing, swimming, hunting (based on size?) and fishing. b. Parcel offers only land-based opportunities for natural resource-based recreation consistent with the goals of this program, including but not limited to, environmental education, hiking, and nature photography. c. Parcel offers limited opportunities for natural-resource based recreation beyond simply accessing and walking on it d. Parcel does not offer opportunities for natural-resource based recreation 3. Enhancement of Aesthetic Setting a. Percent of perimeter that can me seen by public. Score based on percentage of frontage of parcel on public thoroughfare b. Add up to 20 points if the site contains outstanding aesthetic	100 75 50 0 100 75 50 0	100 100	These parcels if acquired would become a part of the Pepper Ranch Preserve which offers multiple opportunties for natural
Subtotal 300 220	1. Access (Select the Highest Score) a. Parcel has access from a paved road b. Parcel has access from an unpaved road c. Parcel has seasonal access only or unimproved access easement d. Parcel does not have physical or known legal access 2. Recreational Potential (Select the Highest Score) a. Parcel offers multiple opportunities for natural resource-based recreation consistent with the goals of this program, including but not limited to, environmental education, hiking, nature photography, bird watching, kayaking, canoeing, swimming, hunting (based on size?) and fishing. b. Parcel offers only land-based opportunities for natural resource-based recreation consistent with the goals of this program, including but not limited to, environmental education, hiking, and nature photography. c. Parcel offers limited opportunities for natural-resource based recreation beyond simply accessing and walking on it d. Parcel does not offer opportunities for natural-resource based recreation 3. Enhancement of Aesthetic Setting a. Percent of perimeter that can me seen by public. Score based on percentage of frontage of parcel on public thoroughfare b. Add up to 20 points if the site contains outstanding aesthetic characteristic(s), such as but not limited to water view, mature	100 75 50 0 100 75 50 0	100 100	These parcels if acquired would become a part of the Pepper Ranch Preserve which offers multiple opportunties for natural
	1. Access (Select the Highest Score) a. Parcel has access from a paved road b. Parcel has access from an unpaved road c. Parcel has seasonal access only or unimproved access easement d. Parcel does not have physical or known legal access 2. Recreational Potential (Select the Highest Score) a. Parcel offers multiple opportunities for natural resource-based recreation consistent with the goals of this program, including but not limited to, environmental education, hiking, nature photography, bird watching, kayaking, canoeing, swimming, hunting (based on size?) and fishing. b. Parcel offers only land-based opportunities for natural resource-based recreation consistent with the goals of this program, including but not limited to, environmental education, hiking, and nature photography. c. Parcel offers limited opportunities for natural-resource based recreation beyond simply accessing and walking on it d. Parcel does not offer opportunities for natural-resource based recreation 3. Enhancement of Aesthetic Setting a. Percent of perimeter that can me seen by public. Score based on percentage of frontage of parcel on public thoroughfare b. Add up to 20 points if the site contains outstanding aesthetic characteristic(s), such as but not limited to water view, mature trees, native flowering plants, or archeological site	75 50 0 80 20	100 100 20	These parcels if acquired would become a part of the Pepper Ranch Preserve which offers multiple opportunties for natural
2. Hullian Social values/Aestitetics Total Score 100 73 Obtained by dividing the Subtotal by 5.	1. Access (Select the Highest Score) a. Parcel has access from a paved road b. Parcel has access from an unpaved road c. Parcel has seasonal access only or unimproved access easement d. Parcel does not have physical or known legal access 2. Recreational Potential (Select the Highest Score) a. Parcel offers multiple opportunities for natural resource-based recreation consistent with the goals of this program, including but not limited to, environmental education, hiking, nature photography, bird watching, kayaking, canoeing, swimming, hunting (based on size?) and fishing. b. Parcel offers only land-based opportunities for natural resource-based recreation consistent with the goals of this program, including but not limited to, environmental education, hiking, and nature photography. c. Parcel offers limited opportunities for natural-resource based recreation beyond simply accessing and walking on it d. Parcel does not offer opportunities for natural-resource based recreation 3. Enhancement of Aesthetic Setting a. Percent of perimeter that can me seen by public. Score based on percentage of frontage of parcel on public thoroughfare b. Add up to 20 points if the site contains outstanding aesthetic characteristic(s), such as but not limited to water view, mature trees, native flowering plants, or archeological site	75 50 0 80 20 300	100 100 100 20 220	These parcels if acquired would become a part of the Pepper Ranch Preserve which offers multiple opportunties for natural

3. Vulnerability to Development/Degradation			
3.A Zoning/Land Use Designation	Possible points	Scored points	Comments
1. Zoning allows for Single Family, Multifamily, industrial or commerce		50	Arnold parcel contains uplands that could be developed
2. Zoning allows for density of no greater than 1 unit per 5 acres	45		
3. Zoning allows for agricultural use /density of no greater than 1 unit			
4. Zoning favors stewardship or conservation	-20		
If parcel has ST overlay, remove 20 points Property has been rezoned and/or there is SDP approval	25		
7. SFWMD and/or USACOE permit has been issued	25		
A rezone or SDP application has been submitted	15		
SFWMD and/or USACOE permit has been applied for	15		
3. Vulnerability Total Score	100	50	
4. Ecosibility and Coats of Management			
4. Feasibility and Costs of Management	Dossible	Coored	
4.A Hydrologic Management Needs	Possible points	Scored points	Comments
No hydrologic changes are necessary to sustain qualities of site in perpetuity	100	100	
Minimal hydrologic changes are required to restore function, such a cut in an existing berm	75		
Moderate hydrologic changes are required to restore function, such as removal of existing berms or minor re-grading that require use of machinery	50		
4. Significant hydologic changes are required to restore function, such as re-grading of substantial portions of the site, placement of a berm, removal of a road bed, culvert or the elevation of the water table by installing a physical structure and/or changes unlikley	0		
5.A Total	100	100	
A.D. Funding Management Name	Possible	Scored	Comments
4.B Exotics Management Needs	points	points	Comments
Exotic Plant Coverage			
a. No exotic plants present	100		
b. Exotic plants constitute less than 25% of plant cover	80	80	
c. Exotic plants constitute between 25% and 50% of plant cover	60 40		
d. Exotic plants constitute between 50% and 75% of plant cover e. Exotic plants constitute more than 75% of plant cover	20		
f. Exotic characteristics are such that extensive removal and	20		
maintenance effort and management will be needed (e.g., heavy	-20		
infestation by air potato or downy rosemytle) g. Adjacent lands contain substantial seed source and exotic	00		
removal is not presently required	-20		
5.B Total	100	80	
4.C Land Manageability	Possible points	Scored points	Comments
Parcel requires minimal maintenance and management, examples: cypress slough, parcel requiring prescribed fire where fuel loads are low and neighbor conflicts unlikely	80	80	Minimal maintenance will be needed besides exotic plant maintenance. Prescribed fire and trails will not be needed on these parcels. Trafford Oaks Road access will assist with management.
Parcel requires moderate maintenance and management, examples: parcel contains trails, parcel requires prescribed fire and circumstances do not favor burning	60		
Parcel requires substantial maintenance and management, examples: parcel contains structures that must be maintained, parcel requires management using machinery or chemical means which will be difficult or expensive to accomplish	40		
Add 20 points if the mainenance by another entity is likely	20		
5. Subtract 10 points if chronic dumping or trespass issues exist	-10 100	80	
5.C Total		80 87	Sum of 5A 5B 5C, then divided by 2
4. Feasibility and Management Total Score	100	8/	Sum of 5A, 5B, 5C, then divided by 3
Total Score	400	280	

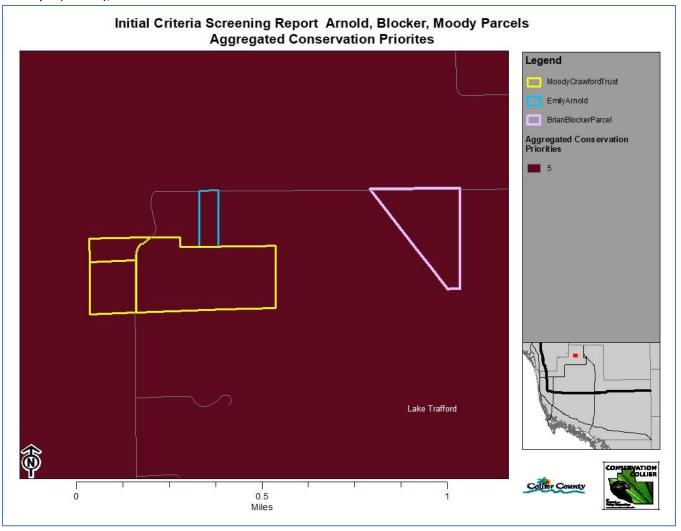
Critical Lands and Waters Identification Maps (CLIP)

This report makes use of data layers from the Florida Natural Areas Inventory and University of Florida Critical Lands and Waters Identification Project (CLIP4). CLIP4 is a collection of spatial data that identify statewide priorities for a broad range of natural resources in Florida. It was developed through a collaborative effort between the Florida Areas Natural Inventory (FNAI), the University of Florida GeoPlan Center and Center for Landscape Conservation Planning, and the Florida Fish and Wildlife Conservation Commission (FWC). It is used in the Florida Forever Program to evaluate properties for acquisition. CLIP4 is organized into a set of core natural resource data layers which are representative of 5 resource categories: biodiversity, landscapes, surface water, groundwater and marine. The first 3 categories have also been combined into the Aggregated layer, which identifies 5 priority levels for natural resource conservation.

Date: October 2021

Figure 6. Aggregated Conservation Priorities CLIP4 Map

This is the CLIP version 4.0 Aggregated Priorities model, which combines conservation priorities from the Biodiversity, Landscapes, and Surface Waters Resource Priority models, and the underlying CLIP Core Data layers. Grid Value 5 = Priority 1 (highest conservation priority), 4 = Priority 2, 3 = Priority 3, 2 = Priority 4, 1 = Priority 5 (lowest), and 0 = no resource value identified



d.

Figure 7. Biodiversity CLIP4 Map

This is the CLIP version 4.0 Biodiversity Resource Priorities model, which combines conservation priorities from the SHCA, Vertebrate Richness, FNAIHAB, and Priority Natural Communities Core Data layers. Grid Value 5 = Priority 1 (highest conservation priority), 4 = Priority 2, 3 = Priority 3, 2 = Priority 4, 1 = Priority 5 (lowest), and 0 = no resource value identified.

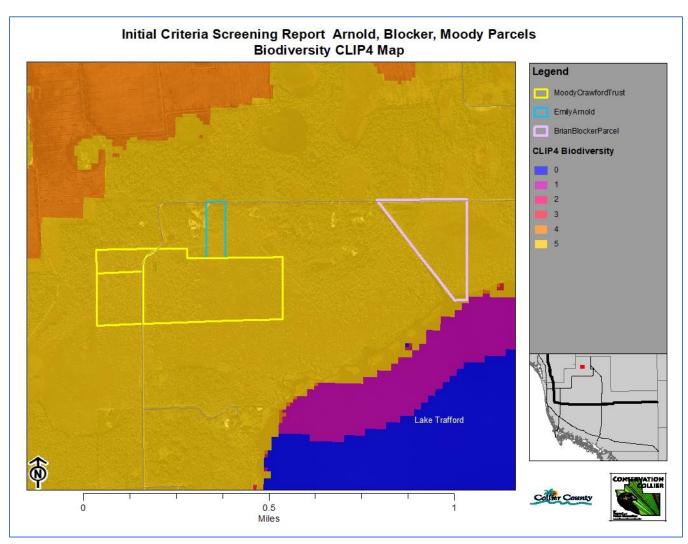


Figure 8. Potential Habitat Richness CLIP4 Map

This CLIP version 4.0 data layer is unchanged from CLIP v3.0. FWC Potential Habitat Richness. Because SHCAs do not address species richness, FWC also developed the potential habitat richness layer to identify areas of overlapping vertebrate species habitat. FWC created a statewide potential habitat model for each species included in their analysis. In some cases, only a portion of the potential habitat was ultimately designated as SHCA for each species. The Potential Habitat Richness layer includes the entire potential habitat model for each species and provides a count of the number of species habitat models occurring at each location. The highest number of focal species co-occurring at any location in the model is 13.

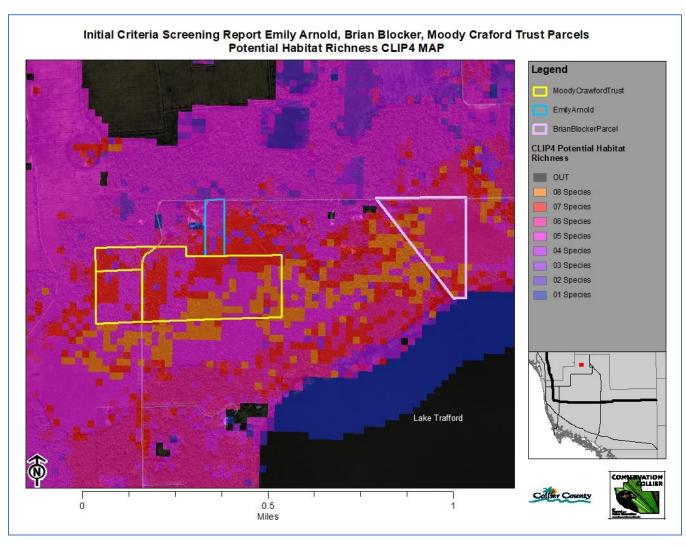


Figure 9. Landscape Integrity CLIP4 Map

The landscape integrity layer is comprised of two related landscape indices assessing ecological integrity based on land use intensity and patch size of natural communities and semi-natural land uses. The land use intensity index characterizes the intensity of land use across the state based on five general categories of natural, semi-natural (such as rangelands and plantation silviculture), improved pasture, agricultural/low-intensity development, and high intensity development. The patch size index combines the land use data with major roads data (such as 4 land or wider roads and high traffic roads) to identify contiguous patches of natural and semi-natural land cover and ranks them based on area. The combination of the land use intensity and patch size indices was created by adding the two together and dividing by two to create a non-weighted average of the two indices. Values of 10 represent areas with the highest potential ecological integrity based on these landscape indices and 1 represents the lowest ecological integrity. Please note that this index is intended to primarily characterize terrestrial ecosystems and therefore values for large water bodies are not considered significant. CLIP version 4.0 of this data layer is updated based on latest land cover data - the Cooperative Land Cover version 3.1.

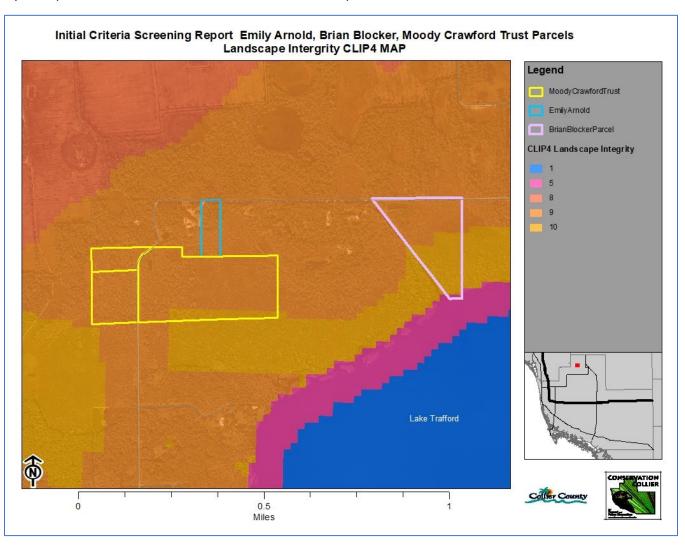


Figure 10: Strategic Habitat Conservation Areas CLIP4 Map

For CLIP 4.0, the species priorities were updated based on current Global and State Ranks. The Florida Fish and Wildlife Conservation Commission originally identified strategic habitat conservation areas (SHCA) in the Commission report, "Closing the Gaps in Florida's Wildlife Habitat Conservation System" (Cox et al. 1994). The goal of the SHCA is to identify the minimum amount of land needed in Florida to ensure long-term survival of key components to Florida's biological diversity. In 2009, the SHCA underwent a significant revision based on a new suite of species, updated datasets, new datasets that did not exist when the original analysis was conducted, and improved analytical techniques including spatially explicit population viability analyses. A population risk assessment was conducted for 62 focal vertebrate species, of which 34 were shown to have additional protection needs in Florida. The SHCA identify important remaining habitat conservation needs on private lands for these 34 terrestrial vertebrates. The SHCA are prioritized based on global and state natural heritage ranks. Value 1 = Priority 1 (Highest): State Rank 1 and Global Rank 4-5 or State Rank 2 and Global Rank 2-3 Value 3 = Priority 3: State Rank 2 and Global Rank 4-5 or State Rank 3 and Global Rank 5 or State Rank 4 and Global Rank 4.

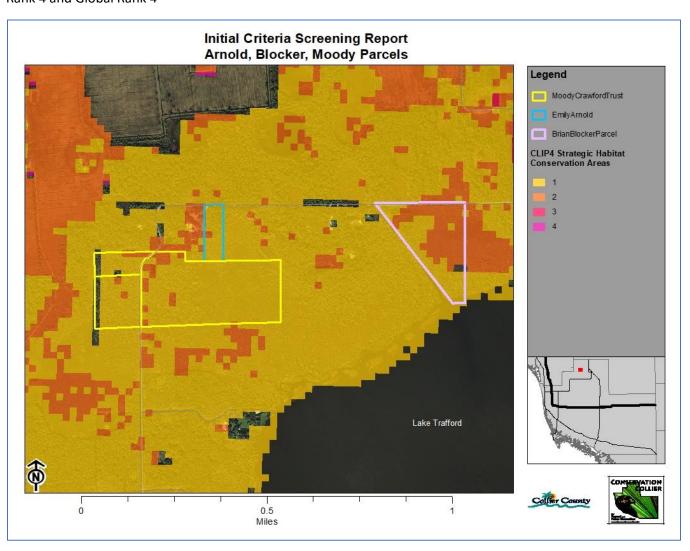


Figure 11. Priority Natural Communities CLIP4 Map

This data layer was created by FNAI specifically for the Florida Forever statewide environmental land acquisition program. It is intended to map natural communities that are under-represented on existing conservation lands. FNAI mapped the statewide range of 13 natural community types: upland glades, pine rocklands, seepage slopes, scrub, sandhill, sandhill upland lake, upland pine, tropical hardwood hammock, upland hardwood forest, pine flatwoods, dry prairie, coastal uplands, and coastal wetlands. The CLIP 4.0 version of this data layer further prioritizes areas within each community type based on land use intensity and FNAI Potential Natural Areas priorities.

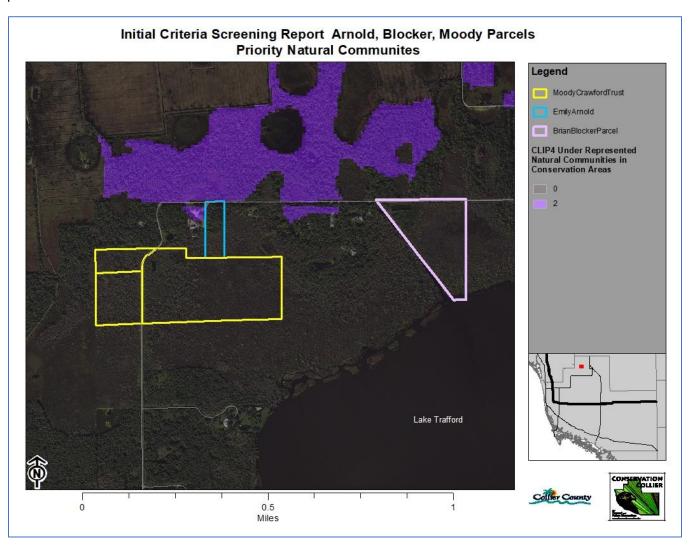


Figure 12. Surface Water Priorities CLIP4 Map

Developed by FNAI in consultation with water resource experts from the water management districts, the Florida Department of Environmental Protection (DEP) Division of Water Resource Management, DEP Office of Coastal and Aquatic Managed Areas (CAMA), and Fish and Wildlife Conservation Commission we determined that this measure concerns the protection of surface waters that currently remain in good condition, as opposed to those in need of restoration. Restoration efforts are covered under other Florida Forever goals and measures. The types of surface water resources that are included as significant surface waters are shellfish harvesting areas, seagrass beds, Outstanding Florida Waters (OFWs), National Wild and Scenic Rivers, springs, estuaries included in the National Estuary Program, and water bodies important for imperiled fish (Hoehn 1998). For a complete description please refer to: Florida Forever Conservation Needs Assessment Technical Report, Version 4.1. Florida Natural Areas Inventory. Tallahassee, Florida (available online at www.fnai.org).

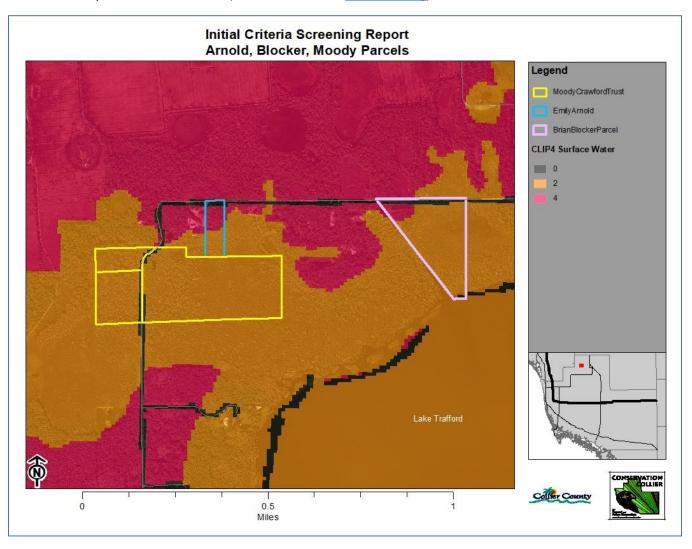
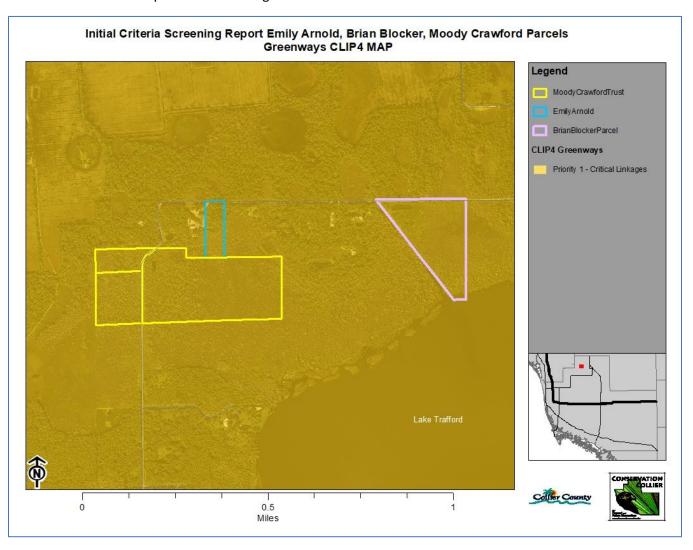


Figure 13: Greenways CLIP4 Map
Prioritization of the new Florida Ecological Greenways Network base boundary is required to refine priority focal areas and facilitate implementation efforts by the Office of Greenways and Trails and partners and related

conservation evaluation processes including the Florida Forever Conservation Needs Assessment.



Vegetation and Habitat

Figure 14: Department of Environmental Protection and Water Management District Florida Land Use and Cover Classification System (FLUCCS)

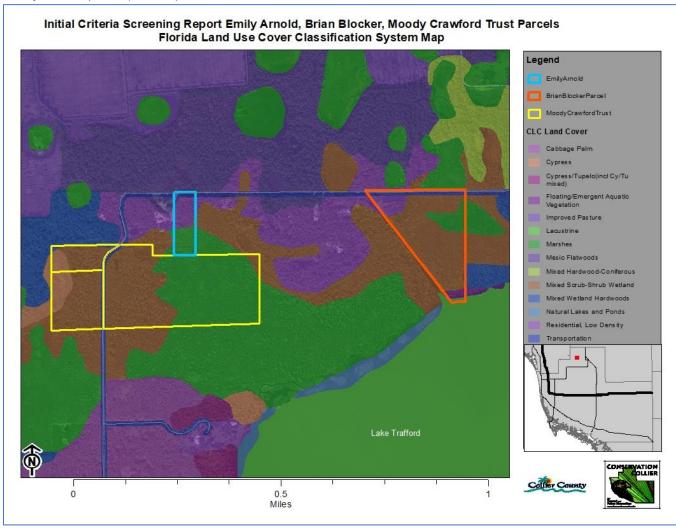
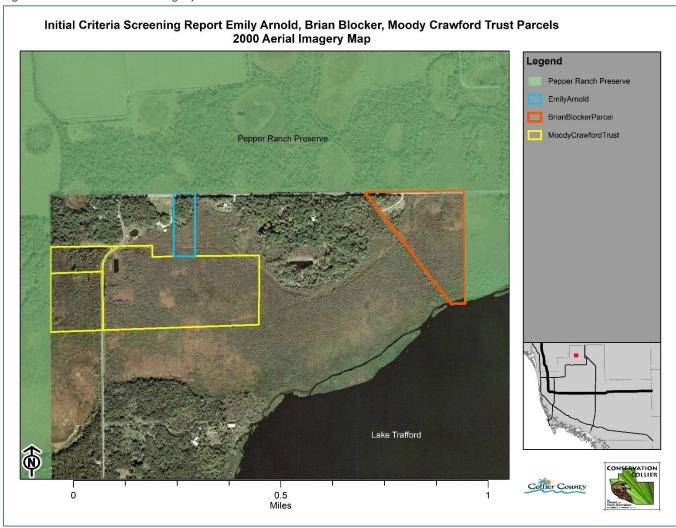


Figure 15: Historic Aerial Imagery



vford Trust Date: October 2021





Left: Cardinal airplant (Tillandsia fasciculata) on the Arnold parcel

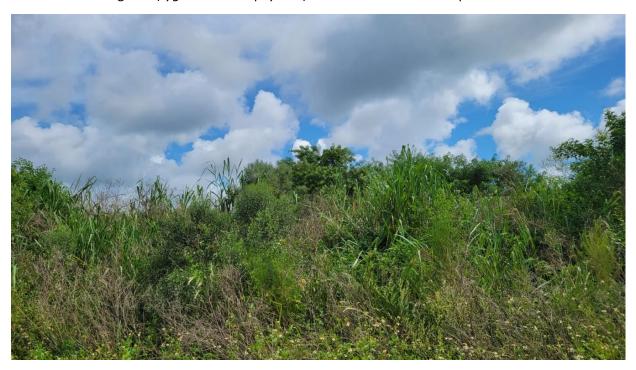
Right: Royal fern (Osmundia regalis) on the Blocker parcel



Northern needleleaf airplant (*Tillandsia balbisiana*) on the Arnold parcel Giant airplant (*Tillandsia utriculata*) on the Moody Crawford Trust parcel



Old-world climbing fern (Lygodium microphyllum) observed on the Blocker parcel



Guinea grass (Megathyrsus maximus) growing on spoil pile along canal on the Blocker parcel



Brazilian pepper (Schinus terebinthifolius) growing in a disturbed area on the Arnold parcel



Air potato (*Dioscorea bulbifera*) and arrowhead vine (*Syngonium podophyllum*) growing just north of the Moody Crawford Trust parcel. This will provide a seed source to address.

Photoset 3: Representative Habitat



Cabbage palm (Sabal palmetto) and live oak (Quercus virginianus) hammock on the Arnold parcel



Pop ash (*Fraxinus caroliniana*) slough on the Arnold parcel. Note the numerous cardinal airplants (*Tillandsia fasciculata*).



Red maple (Acer rubrum) swamp on Moody Crawford Trust parcel west of Trafford Oaks Road.

Table 15: Plant Species Observed During Site Visit

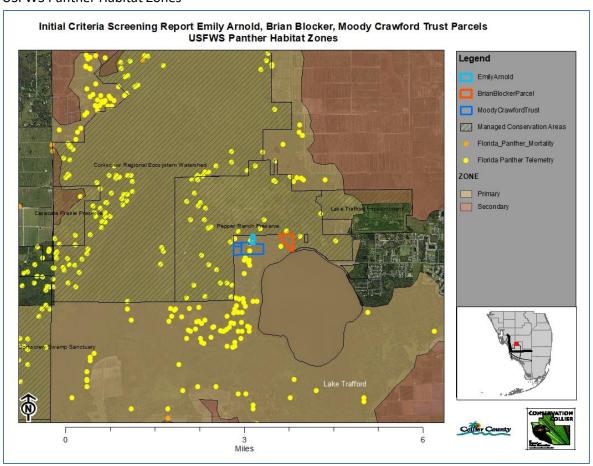
Common Name	Scientific Name	State Status	Federal Status	Wetland Status	FLEPPC Status
strangler fig	Ficus aurea			FAC	
musky mint	Hyptis alata			FAC	
wax myrtle	Myrica cerifera			FAC	
wild coffee	Psychotria nervosa			FAC	
cabbage palm	Sabal palmetto			FAC	
myrsine	Myrsine guianensis			FAC	
red maple	A cer rubrum			FACW	
blue maidencane	Amphicarpum muhlenbergianum			FACW	
bushy blue stem	Andropogon glomeratus			FACW	
swamp fern	Blechnum serrulatum			FACW	
toothpetal false rein orchid	Habenaria floribunda			FACW	
laurel oak	Quercus Laurifolia			FACW	
white top sedge	Rhynchospora colorata			FACW	
leather fe m	Acrostichum spp.			OBL	
pond apple	Annona glabra			OBL	
wate r hemlock	Cicuta maculata			OBL	
sawgrass	Cladium jamaicense			OBL	
swamp lily	Crinum americanum			OBL	
Jointed spikerush	Eleocharis interstincta			OBL	
pop ash	Fraxinus carloliniana			OBL	
dahoon holly	Ilex cassine	0 0		OBL	
Royal fern	Osmunda regalis var. spectabilis	State Commercially exploited	n/a	OBL	
swamp bay	Persea palustris			OBL	
smart weed	Polygonum sp.			OBL	
pickerelweed	Pontederia cordata			OBL	
duck potato	Saggitaria latifolia			OBL	
willow	Salix spp.			OBL	
alligator flag	Thalia spp.			OBL	
cattails	Typha spp.			OBL	
Leather fern	Acrostichum spp.	State Threatened	n/a		
salt bush	Baccharus sp.				
beggar's tick	Bidens alba				
Florida butterfly orchid	Encyclia tampensis	State Commercially exploited	n/a		
climbing hempvine	Mikania scandens				
mulberry	Morus sp.				
virginia cree per	Parthenocissus quinquefolia				
golden polypody fern	Phlebodium aureum				
slash pine	Pinus elliottii				
resurrection fern	Pleopeltis polypodioides				
green brier	Smilax sp.				
Northern needleleaf	Tillandsia balbisiana	State Threatened	n/a		
Cardinal airplant	Tillandsia fasciculata	State Endangered	n/a		
southern needleleaf airplant	Tillan dsia setacea				
Giant airplant	Tillandsia utriculata	State Endangered	n/a		
shoestring fern	Vittaria lineata				
hog plum	Ximenia americana				
Climbing cassia	Senna pendula				I
woman's tongue	Albizia lebbeck				1
Air potato	Dioscorea bulbifera				I
Water hyacinth	Eich hornia crassipes				I
Cogongrass	Imperata cylindrica				I
Lantana	Lantana camara				I
Peruvian primrose-willow	Ludwigia peruviana				I
Old world climbing fern	Lygodium microphyllum				I
Sword fern	Nephrolepis spp.				I
Water lettuce	Pistia stratiotes				I
Brazilian pepper	Schinus terebinthifolia				I
Caesar's weed	Urena lobata				I
_	Urochloa mutica	Ī	1		I
Para grass					
Para grass Creeping oxeye Guineagrass	Sphagneticola trilobata Urochola maxima				II II

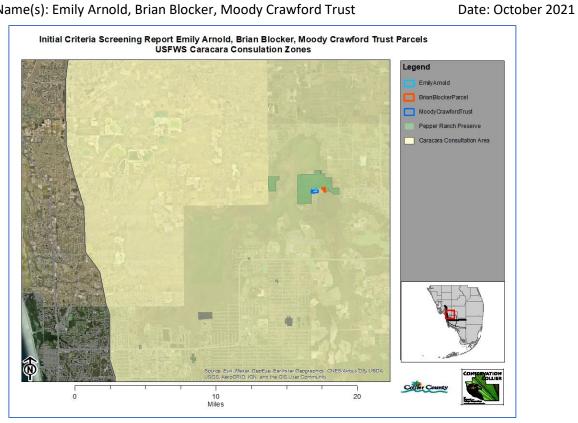
Wildlife

Figure 16: USFWS Consultation Areas
2019 Florida bonneted bat consultation area



USFWS Panther Habitat Zones





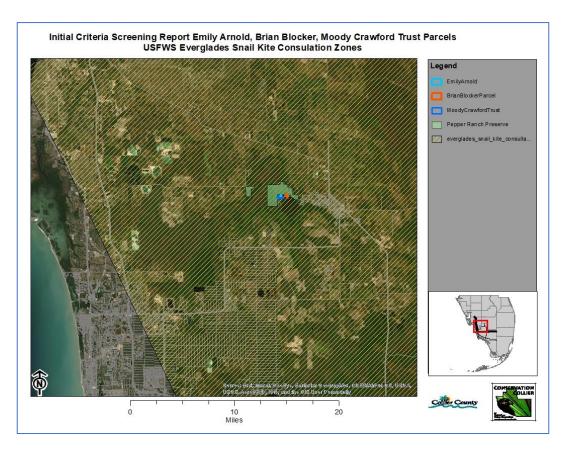
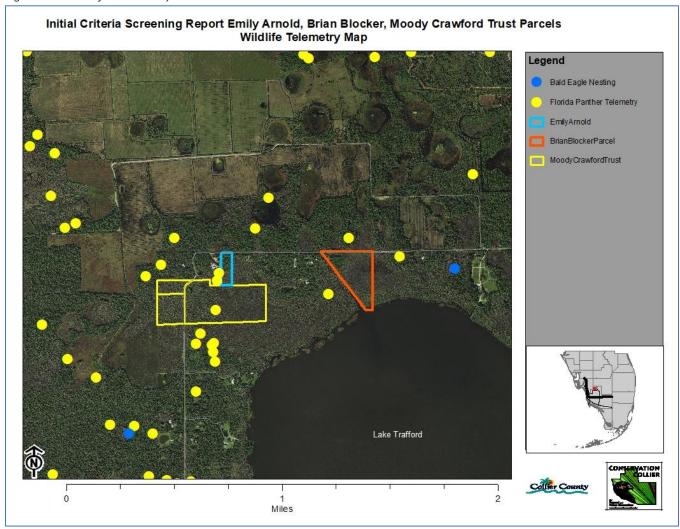


Figure 17: Wildlife Telemetry



Date: October 2021

Photoset 4: Wildlife and Wildlife Indicators



Red-shouldered hawk (Buteo lineatus) on the Moody Crawford Trust parcel

Soils, Elevation, and Hydrology

Figure 18: Soil Survey of Collier County

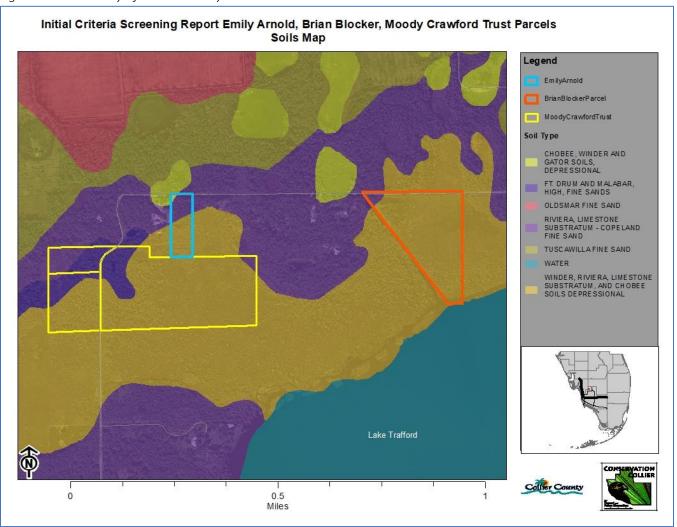


Figure 19: Light Detection and Ranging Surface Elevation Map (LIDAR)

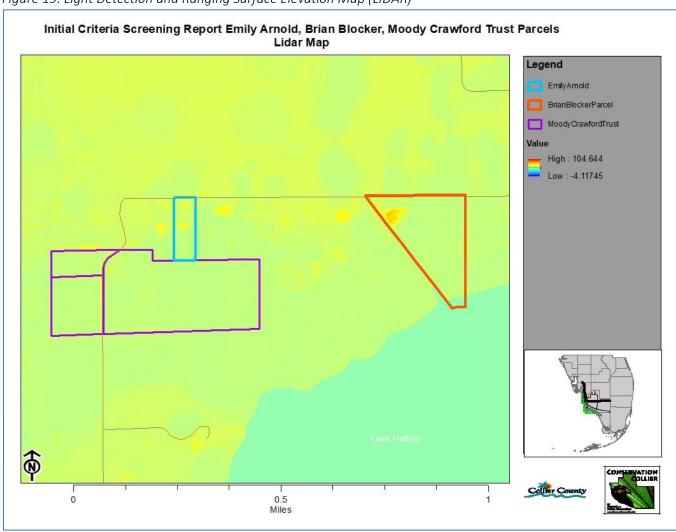


Figure 20: Wellfield Protection Zones

Collier County Wellfield Protection Zones as referenced in the Land Development Code updated in 2010 by Pollution Control and Prevention Department Staff. The public water supply wellfields, identified in section 3.06.06 and permitted by the SFWMD for potable water to withdraw a minimum of 100,000 average gallons per day (GPD), are identified as protected wellfields, around which specific land use and activity (regulated development) shall be regulated under this section.

These parcels do not fall within a wellfield protection zone.

Owner Name(s): Emily Arnold, Brian Blocker, Moody Crawford Trust Date: October 2021

Figure 21: Precipitation Recharge/Discharge Areas - Floridan, Sandstone and Tamiami Aquifers
The maps delineate average yearly rates of precipitation recharge or leakage, depending on the type of aquifer system(s) portrayed, as well as excess precipitation estimates (i.e. rainfall minus actual evapotranspiration losses) for each planning region.

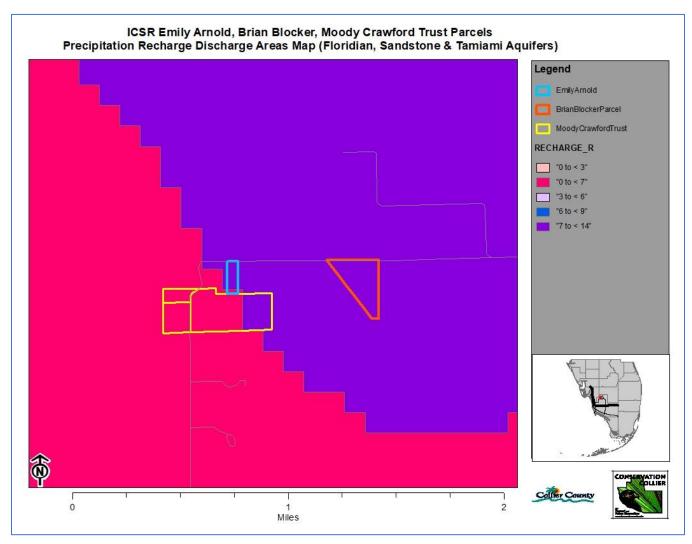


Figure 22: Precipitation Recharge Areas - Surficial and Biscayne Aquifers

The maps delineate average yearly rates of precipitation recharge or leakage, depending on the type of aquifer system(s) portrayed, as well as excess precipitation estimates (i.e. rainfall minus actual evapotranspiration losses)

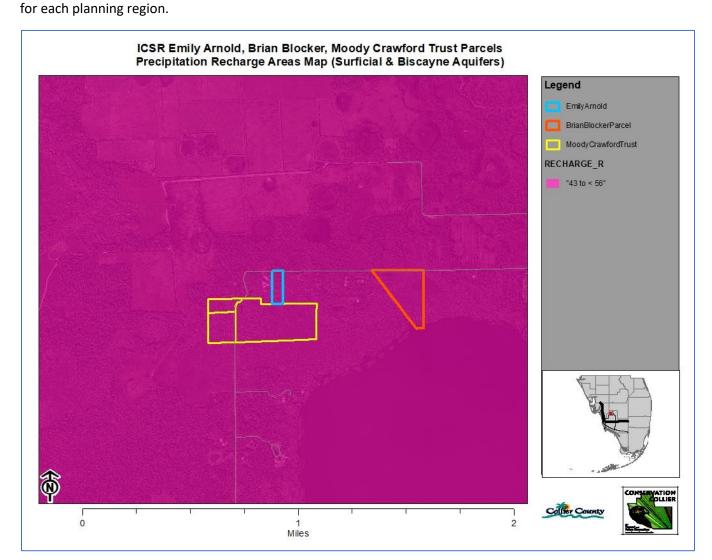
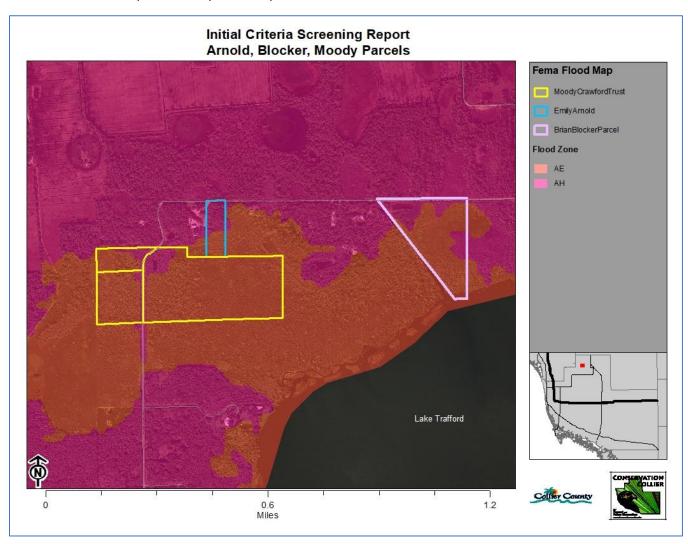


Figure 23: FEMA Flood Zones

Data was extracted from the 2011 FEMA DFIRM to provide only the remaining regulated areas; the adjusted Special Flood Hazard Area. Excluded areas were removed from the original DFIRM map including Federal Lands and FEMA Approved Mass LOMAs, MREMs and PREMs. Incorporated areas, Lake Trafford and coastal waters excluded from the Physical County Boundary were also excluded.





Left: Giant leather fern (*Acrostichum danaeifolium*), red maple (*Acer rubrum*), swamp fern (*Blechnum serrulatum*), willow (*Salix sp.*), and other aquatic vegetation growing on the Crawford Moody Trust parcel

Right: Canal on border of Blocker parcel



Borrow pit pond on the Moody Crawford Trust parcel

Zoning

Figure 24: Collier County Growth Management Department Zoning Overlay

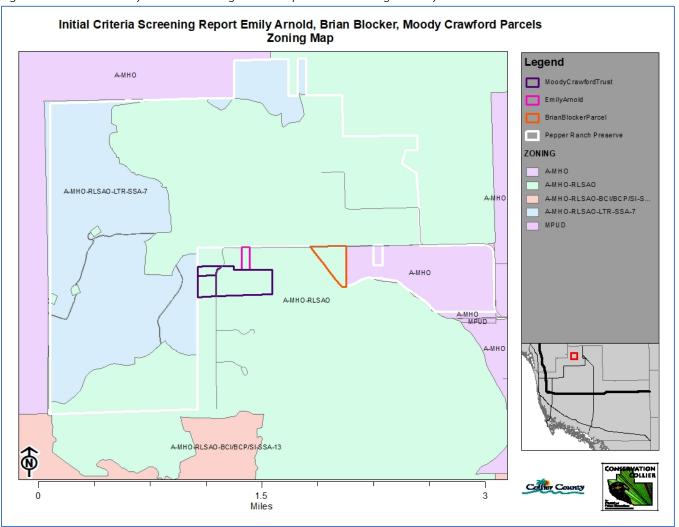
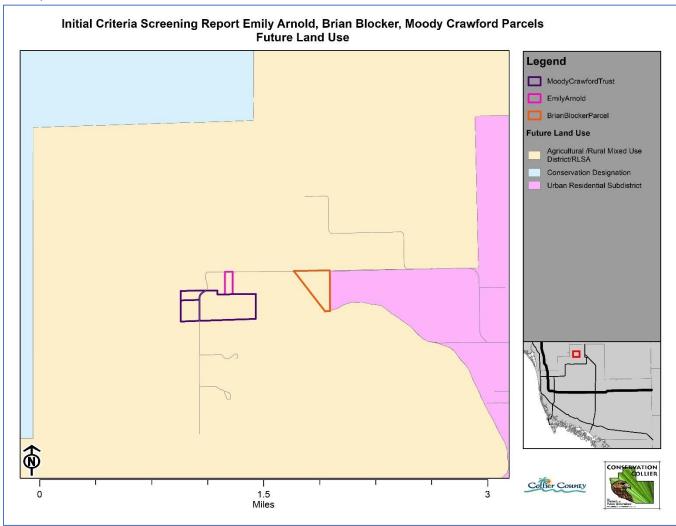


Figure 25: Collier County Growth Management Department Comprehensive Planning Division Future Land Use Overlay



Management

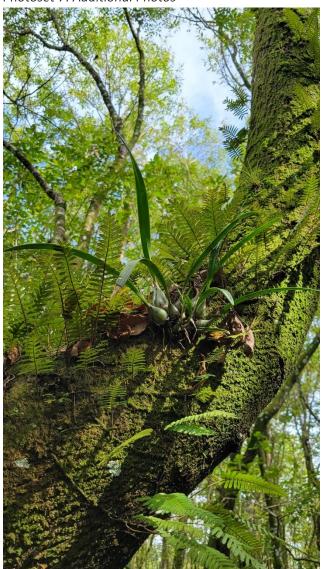
Photoset 6: Management Considerations



Paragrass (Brachiaria mutica) infestation on the Blocker parcel

Additional Figures, Tables, and Photos

Photoset 7: Additional Photos



Butterfly orchid (*Encyclia tampensis*) growing on the Moody Crawford Trust parcel