

Charlotte County Conservation Charlotte Nominations

JKL Island-Lemon Bay (Site 2025-01)

ESLOC – March 16, 2026

Community Services Department
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CHARLOTTE COUNTY
FLORIDA

JKL Island-Lemon Bay (Site 2025-01)

- A site inspection was conducted by PNR staff on January 9, 2026.
- Acreage: parcel is approximately 47.7 acres.
- Access: Parcel is only accessible via boat, waters are very shallow.



JKL Island-Lemon Bay (Site 2025-01)

DRONE VIDEO

Habitat Present – Rarity



- Coastal Mangrove – 31.5 acres

This is the dominant ecological community present on this parcel. This habitat is composed of primarily red and black mangrove species, white mangroves were not observed but could be present.

FNAI Global Ranking: (G5) Demonstrably secure globally.

Potential Listed Species: American crocodile, Mangrove terrapin, Great white heron, Reddish egret, Roseate Spoonbill.

Observed listed species: Mangrove crabs (Not listed)

% Exotic Coverage: 0%



Habitat Present – Rarity

- Submerged lands – 16.12 acres

Dominant species consists of various seagrass species.

FNAI Global Ranking: (G3) Either very rare and local throughout its range or found locally in a restricted range or vulnerable to extinction from other factors.

Potential Listed Species: American crocodile, Sea turtles, Florida Manatee.

Observed listed species: Various seagrass species.

% Exotic Coverage: Not assessed



Habitat Present – Rarity

- Disturbed Uplands – 0.8 acres

Dominant species consists of Australian pine (*Casuarina equisetifolia*). Other exotic species were noted include Brazilian pepper (*Schinus terebinthifolia*) and Carrotwood (*Cupaniopsis anacardioides*).

FNAI Global Ranking: N/A

Potential Listed Species: N/A

Observed LS: None

% Exotic Coverage: 90%



Connectedness

- Property is not directly connected to any other County, State or Federally owned/ maintained parcels.
- Property is located less than half a mile southeast of recently acquired state lands.



Habitat Quality

- Coastal Mangrove – 31.5 acres

The overall condition of this habitat was good. Florida's coastal mangrove status is of "critical concern" due to ecological importance.

- Submerged lands – 16.12 acres

The overall condition of this habitat was good. Florida's seagrasses are protected by state and federal agencies due to their ecological importance as habitat for endangered species.

- Disturbed Uplands – 0.8 acres

Many old growth pines damaged by storm driven high winds and down at the time of assessment.

Ground cover was entirely Australian pine needle duff with the only other ground cover being Shoreline seapurslane (*Sesuvium portulacastrum*).

Management

- This parcel has low management potential due to most of the property consisting of coastal mangroves which are highly protected and require extensive permitting to manage.
- The upland habitat, which is heavily dominated by exotic/invasive species, would require significant work to clear and to treat. Due to the sites limited access staff would not be able to use heavy equipment to treat or remove exotics in the uplands.



Water Resources

- More than 95% of the parcel is submerged or semi-submerged.
- Parcel is surrounded by Lemon Bay aquatic preserve AND is on the Florida Forever Strategic Managed Areas Lands List.



Parcel Rankings

JKL Island (Site 2025-01) PID: 411901451002 47.76 Acres		
Criteria	Score	Comments
Rarity	3	Primary habitat type is common in Charlotte County.
Connectedness	4	Site is small, isolated and difficult to manage.
Quality	2	Mangroves are in excellent condition. Minor upland exotics.
Manageability	4	Little to no management potential. Vulnerable to external impacts.
Water Resources	2	Moderate in size. Low development potential.
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DISCUSSION