

Florida Department of Environmental Protection

The role of citizen science in nutrient TMDL development for Sanibel Slough

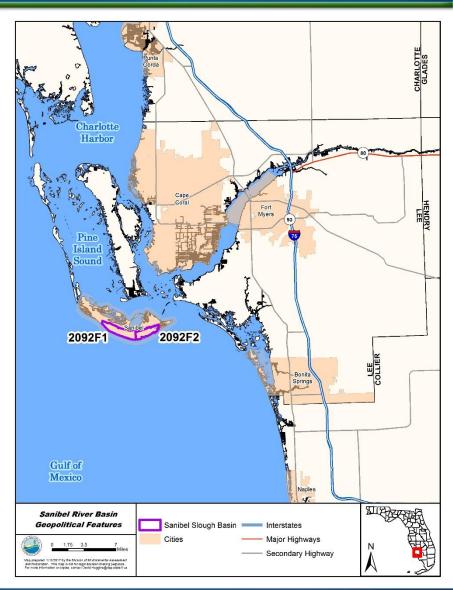
May 31st, 2018





Watershed Location

- Sanibel Slough (aka Sanibel River) is on Sanibel Island in Lee County, Florida.
- The population of the City of Sanibel was 6,469 (2010 U.S. Census)
 - Population Density ≈ 400 / Sq. Mi.





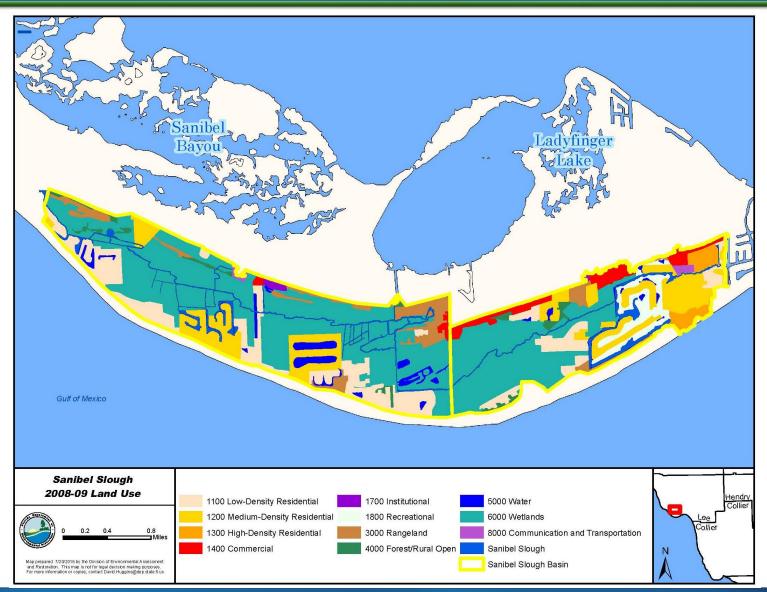
Sanibel Slough



Sanibel Slough West in SCCF preserve. Taken June 15, 2016.



Sanibel Slough Land Use



6/11/2018

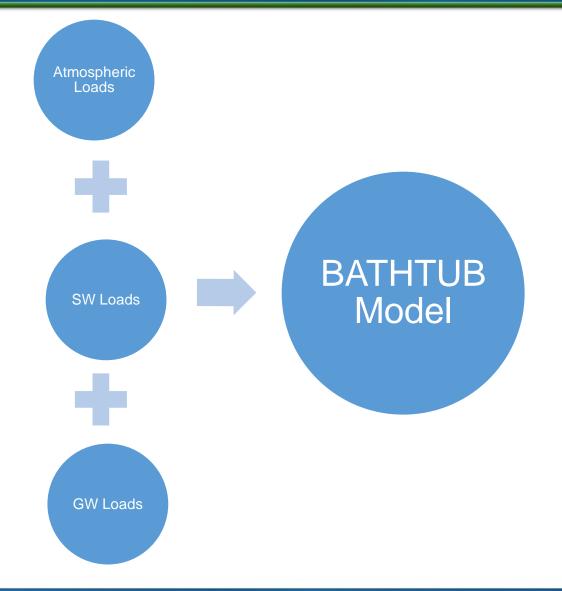


Sanibel Slough



Sanibel Slough West in SCCF preserve. Taken June 15, 2016.

Modeling Approach







Sanibel Slough TMDLs

Adopted into State Rule on 10/18/2017 – currently being reviewed by EPA TMDL and Standards Staff

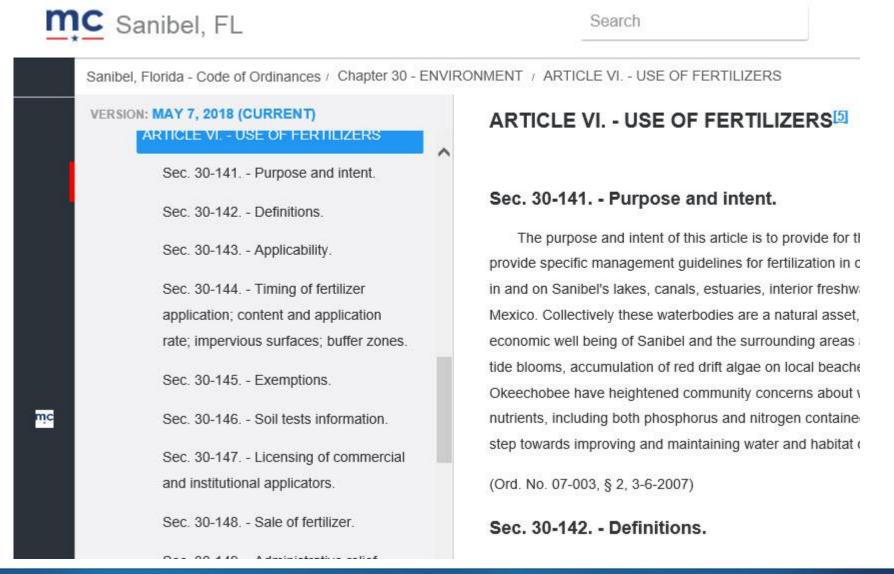
WATERBODY (WBID)	PARAMETER	TMDL (KG/YR)	WLA WASTEWATER (% REDUCTION)	WLA NPDES STORMWATER (% REDUCTION)	LA (% REDUCTION)	MOS
2092F1	TN	1,919	N/A	18	18	Implicit
2092F1	TP	253	N/A	30	30	Implicit
2092F2	TN	1,091	N/A	54	54	Implicit
2092F2	TP	123	N/A	74	74	Implicit

Notes:

- 1) The required percent reductions listed in this table represent the reduction from all sources.
- 2) Dividing TMDL (kg/yr) by 365 days yields daily TMDL loads.
- 3) WBID 2092F1 is Sanibel Slough West, and WBID 2092F2 is Sanibel Slough East.



Fertilizer Ordinance





Jordan Filter Marsh



6/11/2018



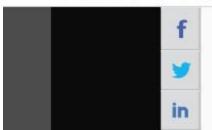
Donax WWTF Upgrade

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Local water projects also were beneficiaries of a state budget buoyed by improved economic conditions. Restoration efforts for Billy's Creek is set to receive \$775,000, Bonita Beach renourishment \$473,000, Cape Coral Gator Sough Reservoir \$1.55 million, Fort Myers Beach storm water outfall \$500,000 and the Sanibel Donax Wastewater Reclamation facility \$2 million.

CAPE CORAL

OPINION

JOBS

OBITUARIES





- Faster TMDL development
- More stakeholder buy-in
- Rapid implementation



FDEP Contact Information

Ansel Bubel Watershed Evaluation and TMDL Section Ansel.Bubel@dep.state.fl.us 850-245-8072