

SIMPLE-Monthly Pollutant Loading Model Results - Whitaker Bayou TN

Section 1 TN Loading has increased by 165% from 2001-2016.
 Septic Systems were components that saw the greatest decrease in loading from 2001-2016 (-59%)

Section 2 Stormwater Runoff is the greatest contributor to TN in Whitaker Bayou, contributing 65% of the total load.

Section 3 Whitaker Bayou is not a major TN contributor to the Sarasota Bay watershed.

Section 1

Whitaker Bayou

Pollutant Loading Trend
 Components of the Trend

Total Nitrogen

	Increase	165%	2001 to 2016
Stormwater Runoff	No Change	0%	2001 to 2016
Baseflow	No Change	0%	2001 to 2016
Septic Systems	Decrease	-59%	2001 to 2016
Point Source	Cannot calculate		2001 to 2016
Irrigation	Decrease	-39%	2001 to 2016
Atmospheric Deposition	Not Modeled		2001 to 2016

Year	Total	Runoff	Baseflow	Septic	Point Source	Irrigation	Atmospheric
2001	2738.80	4695.50	1567.72	1564.78	0.00	589.79	0.00
2006	7648.07	4695.50	1567.72	1025.30	0.97	358.58	0.00
2011	7383.16	4695.50	1567.72	756.26	5.04	358.64	0.00
2016	7261.67	4695.50	1567.72	638.91	0.89	358.64	0.00

Units are pounds per year and modeled using a typical rainfall year.
 Jones Edmunds and Associates conducted this modeling for Sarasota County in 2017.
 Modeling was conducted only for the parts of basins located within Sarasota County.
 Pollutant loading from Atmospheric Deposition (wet and dry) was conducted only for bays.

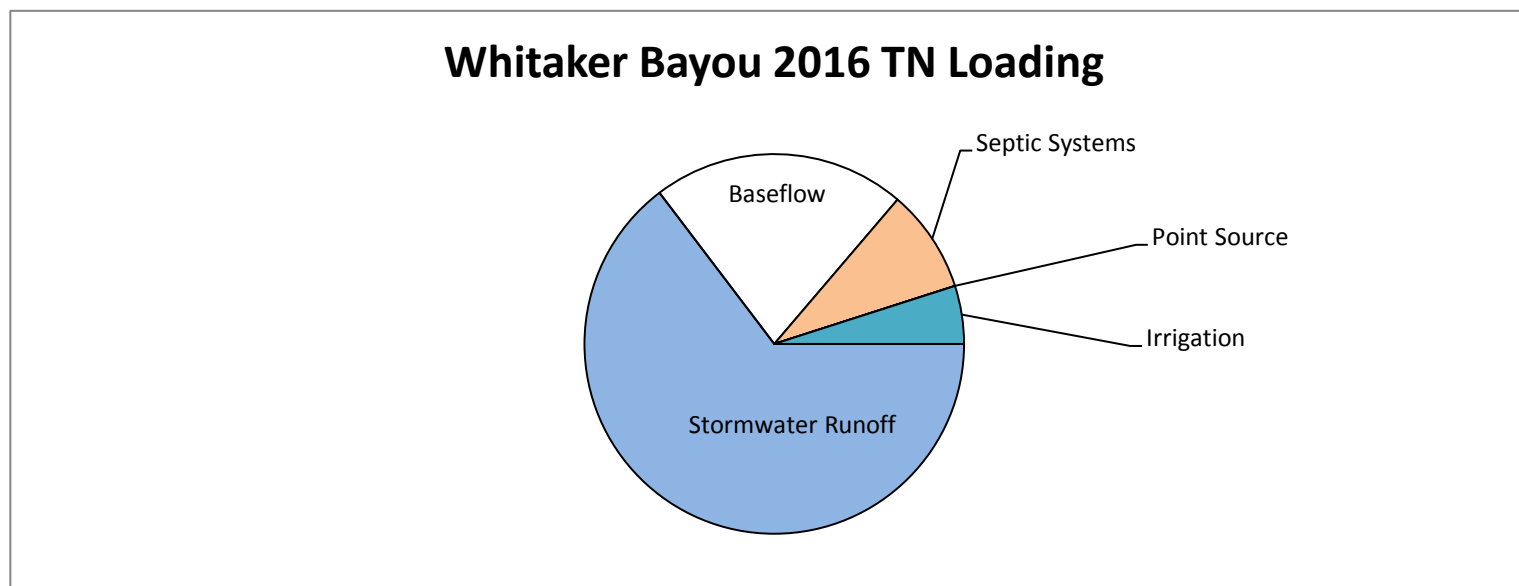
Section 2

Whiaker Bayou

2016 Pollutant loading is influenced by some sources more than others

Total Nitrogen

Stormwater Runoff	65%
Baseflow	22%
Septic Systems	9%
Point Source	0%
Irrigation	5%
Atmospheric Deposition	Not Modeled



Section 3

Whitaker Bayou

Total Nitrogen

2016 Pollutant loading to the Sarasota Bay watershed has more than one source

Proportion of loading is **Low** when % load is compared to % acreage.
Whitaker Bayou acreage is 20% and % loading is 5%

Whitaker Bayou is a part of the Sarasota Bay watershed

	Pounds TN 2016	Acreage
Sarasota Bay watershed	159,061	21,233

The following basins contribute to the loading to the Sarasota Bay watershed

	Pounds TN 2016	% of Watershed Load	Acreage	% of Sarasota Bay watershed
Hudson Bayou	3,069	2%	2,406	11%
Bowlees Creek	10	0%	148	1%
Sarasota Bay Coastal	1,083	1%	1,563	7%
Whitaker Bayou	7,262	5%	4,228	20%
Longboat/Lido Key	4,539	3%	2,765	13%
Sarasota Bay	143,099	90%	10,123	48%

