

SIMPLE-Monthly Pollutant Loading Model Results - Phillippi Creek TN

Section 1 TN Loading has increased by 10,636% from 2001-2016.
Irrigation input was the component that saw the greatest increase in loading from 2001-2016 (+68,000,000%)

Section 2 Stormwater Runoff is the greatest contributor to TN in Phillippi Creek, contributing 59% of the total load.

Section 3 Phillippi Creek is a major TN contributor to the Roberts Bay watershed.

Section 1 Phillippi Creek

		Total Nitrogen		
Pollutant Loading Trend		Increase	10636%	2001 to 2016
Components of the Trend				
	Stormwater Runoff	Increase	2%	2001 to 2016
	Baseflow	Increase	3%	2001 to 2016
	Septic Systems	Increase	4552%	2001 to 2016
	Point Source	Cannot calculate		2001 to 2016
	Irrigation	Increase	68557376%	2001 to 2016
	Atmospheric Deposition	Not Modeled		2001 to 2016

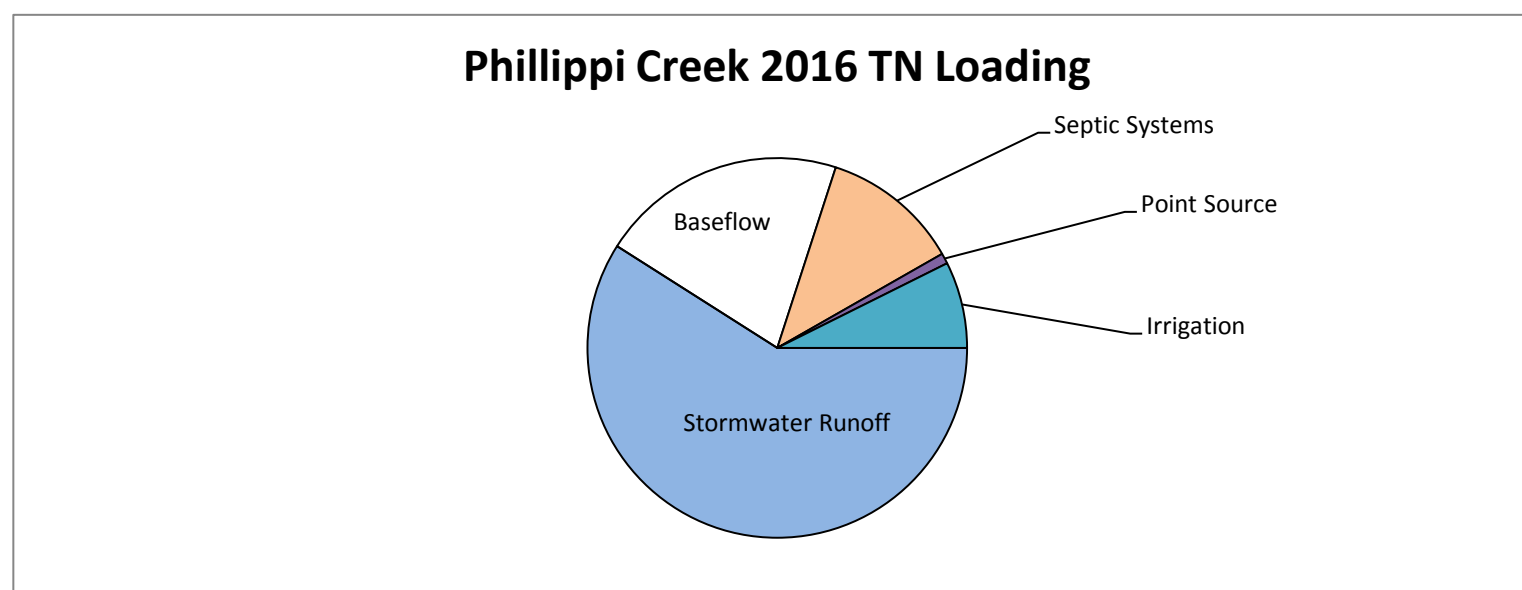
Year	Total	Runoff	Baseflow	Septic	Point Source	Irrigation	Atmospheric
2001	2680.90	166949.04	58768.30	727.56	0.00	0.03	0.00
2006	338969.96	169399.75	60356.47	72956.99	15567.86	20688.89	0.00
2011	74100.05	0.00	0.00	42952.83	6116.96	25030.26	0.00
2016	287826.23	169833.27	60399.65	33845.92	2567.67	21179.71	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 Phillippi Creek

2016 Pollutant loading is influenced by some sources more than others

		Total Nitrogen	
	Stormwater Runoff	59%	
	Baseflow	21%	
	Septic Systems	12%	
	Point Source	1%	
	Irrigation	7%	
	Atmospheric Deposition	Not Modeled	



Section 3

Phillippi Creek

Total Nitrogen

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

Proportion of loading is **High** when % load is compared to % acreage.
Phillippi Creek acreage is 85% and % loading is 99%

Phillippi Creek is a part of the Roberts Bay watershed

	Pounds TN 2016	Acreage
Roberts Bay watershed	291,564	41,893

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

	Pounds TN 2016	% of Watershed Load	Acreage	% of Roberts Bay watershed
Matheny Creek	851	0%	1,724	4%
Phillippi Creek	287,826	99%	35,408	85%
Roberts Bay	580	0%	1,179	3%
Roberts Bay Costal	656	0%	1,546	4%
Siesta Key Roberts Bay	1,652	1%	2,037	5%

