

# Nutrient Separating Baffle Box - Removal Efficiencies

## Numeric Reductions (mg/L)

Study	Total Suspended Solids mg/L			Total Phosphorus mg/L			Total Nitrogen mg/L		
	Influent	Effluent	Removal Efficiency	Influent	Effluent	Removal Efficiency	Influent	Effluent	Removal Efficiency
Dillard & Associates - Field Test	N/A	N/A	93.3%						
Pandit - Physical Modeling	N/A	N/A	89.8%						
Sunset Park Baffle Box	81.15	26.9	66.9%	1.909	1.022	46%			
Lubnow - Harvey's Lake	918	126	86.3%	0.47	0.32	32%			
Royal - Indialantic	32.9	7.6	76.9%	1.49	0.44	70%			
Royal - Micco	16.55	8.625	47.9%	0.055	0.0425	23%			
Pastore - Pine St	110	31	71.8%	0.33	0.19	42%	3.5	1.3	63%
Pastore - 5th St	85	27	68.2%	0.31	0.21	32%	1.6	0.99	38%
Pastore - 7th St	44	27	38.6%	0.22	0.18	18%	2.3	1.3	43%

Study	Zinc mg/L			Lead mg/L			Copper mg/L		
	Influent	Effluent	Removal Efficiency	Influent	Effluent	Removal Efficiency	Influent	Effluent	Removal Efficiency
Pastore - Pine St	0.072	0.044	39%	0.0085	0.0062	27%	0.012	0.0094	22%
Pastore - 5th St	0.088	0.038	57%	0.014	0.0065	54%	0.017	0.01	41%
Pastore - 7th St	0.057	0.041	28%	0.0066	0.0051	23%	0.014	0.011	21%

Study	BOD (mg/L)		
	Influent	Effluent	Removal Efficiency
Sunset Park Baffle Box	16.391	4.125	75%
Royal - Indialantic	1.88	1.4	26%
Royal - Micco	1.59	1.7	-7%

Dillard & Associates Consulting Engineers - Field Test for Suntree Nutrient Separating Baffle Box - Test Report - Feb 2005

Pandit & Gopatakrishnan - Florida Institute of Technology - Physical Modeling of a Stormwater Sediment Box - 1996 - [Independent Test](#)

Sunset Park Baffle Box - Brevard County Surface Water Improvement - St. John's River Water Management District - 1998 - [Independent Test](#)

Lubnow & Miller - Princeton Hydro - The Design, Installation, and Effectiveness of a Structural BMP for Harveys Lake - 2003 - [Independent Test](#)

Royal & Vanderbleek - Brevard County Surface Water Improvement Div - Sediment Control Project, Indiatlantic/Micco - 1994 - [Independent Test](#)

Pastore - Blue Water Environmental - Atlantic Beach Monitoring Study: Pine St, 5th St, 7th St - 2004