Lakes Harney and Monroe Basin Management Action Plan (BMAP)
Best Management Practice (BMP) Efficiencies

Standard BMPs	TP % Reduction	TN % Reduction	Data Source
Off-line Retention 0.25 treatment volume	40	40	Harper, H. & D. Baker. 2007. *Evaluation of Current Stormwater Design Criteria within the State of Florida*. Note: These numbers are provisional for this BMAP and may change based on new information.
Off-line Retention 0.50 treatment volume	62	62	
Off-line Retention 0.75 treatment volume	75	75	
Off-line Retention 1.00 treatment volume	84	84	
On-line Retention 0.25 treatment volume	30	30	
On-line Retention 0.50 treatment volume	52	52	
On-line Retention 0.75 treatment volume	65	65	
On-line Retention 1.00 treatment volume	74	74	
Wet detention ponds	Reduction from Figure 13.2 given the project's residence time	Reduction from Figure 13.3 given the project's residence time	Figures 13.2 and 13.3 in Draft Stormwater Treatment Applicant's Handbook
BMP treatment trains using a combination of BMPs	Use BMP Treatment Train (TT) equation: BMP TT Efficiency = $Eff_1 + ((1-Eff_1)*Eff_2)$	Use BMP Treatment Train (TT) equation: BMP TT Efficiency = $Eff_1 + ((1-Eff_1)*Eff_2)$	Draft Stormwater Treatment Applicant's Handbook
Dry detention	10	10	Harper, H. & D. Baker. 2007. *Evaluation of Current Stormwater Design Criteria within the State of Florida*.
Baffle box	2.3	0.5	Final Report Contract S0236 Effectiveness of Baffle Boxes
Nutrient baffle box (2^{nd} generation)	15.5	19.05	Final Report Contract S0236 Effectiveness of Baffle Boxes
Catch basin inserts/inlet filters	Evaluated on a case-by case basis	Evaluated on a case-by case basis	Case-by-case
Grass swales with swale blocks or raised culverts	Use on-line retention BMPs above	Use on-line retention BMPs above	Evaluation of Harper data
Grass swales without swale blocks or raised culverts	50% of value for grass swales with swale blocks or raised culverts	50% of value for grass swales with swale blocks or raised culverts	Evaluation of Harper data
Alum injection	90	50	Evaluation of Harper data
Stormwater reuse	Estimate amount water not discharged annually because used for irrigation.	Estimate amount water not discharged annually because used for irrigation.	Evaluated on a case-by-case basis
Stormceptor	13	2	Final Report Contract S0095 Sanford Stormceptor project
Continuous deflective separation (CDS) units	10	Not applicable	Final Report Contract WM793 Broadway Outfall Project

Note: The Draft Stormwater Treatment Applicant's Handbook is located at: http://publicfiles.dep.state.fl.us/dwrm/stormwater/stormwater_rule_development/docs/ah_rule_draft_031710.pdf

Provisional BMPs	TP % Reduction	TN % Reduction	Data Source
Floating islands	20	20	Chapter 14 Draft Stormwater Treatment Applicant's Handbook
Street sweeping	Determine pounds of materials removed and multiply by values to be provided by the Florida Stormwater Association (FSA)	Determine pounds of materials removed and multiply by values to be provided by FSA	Final Report of FSA Municipal Separate Storm Sewer (MS4) BMP Project
Public education	1-6, depending on extent of program	1-6, depending on extent of program	Evaluation of Center for Watershed Protection. 2002. *Watershed Treatment Model Version 3.1*. See separate calculation spreadsheet.