

Table Error! No text of specified style in document.-1. Potential hydrologic, water quality, and habitat impacts to NSC from NSEMA projects								
Project Name	Owner/ Co-owner	Threshold (T) or NEB (N)	Basin/Area	Hydrologic Effects	Effects to NSC Inflow	Water Quality Effects	Habitat Effects	Notes
Projects to be Implemented by the City of Cape Coral								
Adopt a Cape Coral Fertilizer Ordinance	Cape Coral	N	NSC	None	None	About 73 ton/year TN removal.	None	Assume 130 lb TN/ac/yr application (IFAS) and 5% TN load reduction over NSC watershed in City (about 35 mi. sq.) Load reduction is 73 ton TN/yr.
Condition-Based Timing for Development of Public Sewer Systems	Cape Coral	N	Section 58 (initial project, existing units):	33 ac-ft/yr reduction in flow to NSC	Reduce annual flow by 0.04%	0.72 tons TN/year removal	None	At build-out, assume 1/4 water from 85,000 septic tanks reaches NSC. Assume 225 gpd/household, with TN load of 2.5 lb/ac/yr and TP load of 0.4 lb/ac/yr. For interim and final stages, septic tank elimination will yield the TN load and water flow reductions to NSC listed at left.
			Section 58 (initial project at section build out)	107 ac-ft/yr reduction in flow to NSC	Reduce annual flow by 0.13%	2.3 tons TN/year removal	None	
			All land west of Burnt Store Rd (at build out):	642 ac-ft/yr reduction in flow to NSC	Reduce annual flow by 0.13%	14 tons TN/year removal	None	
			Area north of Pine Island Rd within the City of Cape Coral (at build out):	7300 ac-ft/yr reduction in flow to NSC	Reduce annual flow by 9.4%	160 tons TN/year removal	None	
Stormwater Treatment Improvements	Cape Coral	N	All	880 ac-ft/yr flow reduction in Gator Slough	Reduce annual flow by 1.1%	About 1078 lb/year TN removal.	None	Assume 110 ac-ft storage (from Cape Coral). Takes 7 days to empty, fills each 7 days during wet season . If TN = 0.75 mg/L and removal efficiency is 30%, TN removal is 61 lb per fill times 16 fills per year. Assume 1/2 water in swales does not reach NSC.
Revise the Cape Coral Seawall Ordinance to Provide Structure which is Beneficial to Marine Habitat	Cape Coral	N	NSC	None	None	Unquantified benefit	Unquantified benefit	Mandate use of structure.
Cape Coral Coordination to Improve Flows, Timing and Distribution of Water to the State Park and Aquatic Preserve	Cape Coral	N	NSC	To be determined	To be determined	To be determined	To be determined	Magnitude of benefits will depend on management group goals.
Septic Systems Inspection and Maintenance Program Development Study	Cape Coral	N	All	None	None	Unquantified benefit.	None	Mandatory inspection and cleaning would reduce failure rate.
Water Quality, Flow and Elevation Monitoring	Cape Coral	N	All	To be determined	To be determined	To be determined	To be determined	
Other ERP Commitments								
Maintain the Cape Coral Canal Dredging	Cape Coral	N/A	NSC	None	None	Limit low DO	Limit low DO	Keeps dredging profile at existing limits.

Profile						zones	zones	
Implement Boating Related Actions	Cape Coral	N/A	NSC	None	None	Reduce fuel release	Captures nuisance vegetation	Restricts power boats at Sirenia Vista Park, provides boater education and bilge and washdown water treatment.
Projects to be implemented by Cape Coral, Lee and Charlotte Counties, SFWMD, SWFWMD and others.								
Gator Slough/Powell Creek Hydrological Restoration	Lee County	N	Gator Slough	Reduce all Gator Slough flows by 1%	Reduce annual flow by 0.5%.	None	Unquantified benefit	Increase flows to Powell Creek, overflow to Gator Slough is reduced.
Yellow Fever Creek/Gator Slough Storm Water Transfer Facility	Lee County	N	Gator Slough	800 ac-ft/year = 3% reduction in annual Gator Slough flow	Reduce annual flow by 1.0%.	Unknown	Unquantified benefit	Re-direct flow from Gator Slough to YF Creek, used ratio of USGS GS Q to 800 ac-ft/yr
Yucca Pens Hydrologic Restoration Plan	SFWMD	N	Gator Slough, NSC	Unquantified benefit	Unquantified benefit	Unquantified benefit	Unquantified benefit	Current work includes characterization only. Restoration projects will be identified later.
Yucca Pens Preserve Restoration	Lee County SFWMD	N	Gator Slough, NSC	Unquantified benefit	Unquantified benefit	Unquantified benefit	Unquantified benefit	In the planning stage.
Charlotte Harbor Flatwoods Hydrologic Restoration	SFWMD, ACOE, Lee County	N	Gator Slough, NSC	Unquantified benefit	Unquantified benefit	Unknown	Unknown	Proposed actions include construction of low berm along south side public land to reduce southward flow of runoff and construction of groundwater barrier to reduce water table drawdown by Gator Slough.
Matlacha Pass Hydrologic Restoration	Lee County	N	Gator Slough	Reduce Gator Slough flow by 3%	Reduce annual flow by 1.5%.	Unknown	Unquantified benefit	Re-direct flow from south along BS Rd to Greenwell Branch - from Lee Co ICPR.
Multi-Jurisdictional Coordination to Improve Watershed Flows, Timing, and Distribution of Water to State Park and Aquatic Preserves	Cape Coral, FDEP, WMDs, Lee County, CHNEP,others	N	NSC and Matlacha Pass	To be determined	To be determined	To be determined	To be determined	
CHNEP Committees as Forums for Updates	Cape Coral, FDEP, WMDs, Lee County, CHNEP,others	N	All	To be determined	To be determined	To be determined	To be determined	
Study of Ecosystem Enhancement Opportunities West of NSC	Cape Coral, FDEP, WMDs, Lee County, CHNEP,others	N	NSC, Matlacha Pass	To be determined	To be determined	To be determined	To be determined	
Stormwater Treatment Areas	Cape Coral, FDEP, WMDs, Lee County, CHNEP,others	N	Gator Slough	800 ac-ft/yr flow reduction in Gator Slough	Reduce annual flow by 0.4%	About 1000 lb/year TN removal.	Unquantified benefit	Assumed 50-acre marsh with 2 feet of storage. Takes 7 days to empty, fills each 7 days during wet season (Jun-Sep). If TN = 0.75 mg/L and removal efficiency is 30%, TN removal is 61 lb per fill times 16 fills per year.
Sediment Management and Habitat Restoration Plan (Between NSC and Matlacha Pass)	Cape Coral, Lee County, WCIND, COE	N	NSC	To be determined	To be determined	To be determined	To be determined	
Monitoring to Assess Achievement of Expected NEB and Support Adaptive Management	Cape Coral, FDEP, WMDs, Lee County, CHNEP,others	N	All	To be determined	To be determined	To be determined	To be determined	

Potential NEB Projects that do Not Have Sponsors								
Habitat Enhancement Pilots on the West Side of the NSC	Cape Coral, Others	N/A	NSC, Matlacha Pass	To be determined	To be determined	To be determined	To be determined	
Revise Land Development Codes to Reduce Stormwater Runoff and Fertilizer Use	Cape Coral, Others	N/A	All	To be determined	To be determined	To be determined	To be determined	
Administrative and Implementation Measures								
Designate a Point of Contact for the City of Cape Coral	Cape Coral	N/A	NA	NA	NA	NA	NA	NA
Use of NSEMA Escrow funds for Projects	Cape Coral, Others	N/A	NA	NA	NA	NA	NA	NA