

<b>TITLE:</b> Homestead Air Reserve Base Realignment and Closure			
<b>SUBREGION :</b> 4	<b>PROJECT ID:</b> SE01	<b>FINANCIAL REQUIREMENT:</b>	
<b>PROGRAM CATEGORY:</b> Infrastructure	<b>BUDGET CATEGORY:</b>	USDOD/EPA	Superfund oversight
<b>PROJECT PLAN MANAGER:</b> Richard Harvey (561) 616-8880	<b>BASIS:</b>	<b>TOTAL:</b>	
<b>LEAD ORGANIZATION(S):</b> USDOD		<b>APPROPRIATED TO DATE:</b>	
<b>SUPPORTING ORGANIZATION(S):</b> EPA			
<b>COUNTY(S):</b> Miami-Dade		<b>TOTAL:</b>	\$31 million
<b>LINKED PROJECTS:</b> Dependent on: Critical to: Associated with:		<b>REMAINING FINANCIAL REQUIREMENT:</b>	
<b>START:</b> 1997	<b>END:</b> 2002	<b>TOTAL:</b>	
		<b>APPROVED:</b> 11/97	<b>LAST REVISION:</b> 2/98

**DESCRIPTION:** This project is an ARB-NPL site and base realignment and closure (BRAC) fast-track cleanup. The 2,940-acre site is located south of Miami in Miami-Dade County. The environmental remediation of the base is pursuant to CERCLA/CERFA acts in implementing the Presidential decision to promote early reuse of military bases undergoing closure by expediting environmental cleanup.

**RESTORATION BENEFITS:** Cleanup of the base fulfills Superfund objective of promoting human health and environmental protection. Two-thirds of the base will be transferred for community use as a restoration benefit. The cleanup which has high priority from an EPA Superfund perspective would allow economic redevelopment in South Miami-Dade County where an estimated 11,000 jobs have been lost as a result of base closure and Hurricane Andrew. Cleanup of the base is ongoing. DOD contact is Tom Bartol (305/224-7233). Cleanup completion of the base transfer property (2/3 of base) is targeted for the end of FY98. Cleanup completion of cantonment area (retained by DOD as Air Reserve Base) is targeted for end of FY01. Some \$31 million has been expended to date for cleanup (FY86-1996).

Time Line and Fiscal Year Budget (in thousands of dollars) for Homestead Air Reserve Base Realignment and Closure																
Task	97	98	99	00	01	02	03	04	05	06	07	08	09	10	Unprog	Total
Program																
Project																
DOD																
<i>Subtotal</i>																

<b>TITLE: S-26 Salinity Control Structure Repair</b>		
<b>SUBREGION :</b> 4	<b>PROJECT ID:</b> SE02	<b>FINANCIAL REQUIREMENT:</b>
<b>PROGRAM CATEGORY:</b> Infrastructure	<b>BUDGET CATEGORY:</b> Infrastructure Investment	USACE:
<b>PROJECT PLAN MANAGER:</b> Glenn Landers 904-232-2125	<b>BASIS:</b> 3	<b>TOTAL:</b> \$526,000
<b>LEAD ORGANIZATION(S):</b> USACE		<b>APPROPRIATED TO DATE:</b>
<b>SUPPORTING ORGANIZATION(S):</b> SFWMD		<b>TOTAL:</b> \$123,000
<b>COUNTY(S):</b> Miami-Dade		<b>REMAINING FINANCIAL REQUIREMENT:</b>
<b>LINKED PROJECTS:</b> Dependent on: Critical to: Associated with:		<b>TOTAL:</b> \$403,000
<b>START:</b> 1999	<b>END:</b> 2001	<b>APPROVED:</b> 11/97 <b>LAST REVISION:</b> 7/98

**DESCRIPTION:** S-26 is a salinity control structure on the Miami canal. The structure discharges flood control flows when necessary and at other times remains closed to hold a freshwater head and prevent salt water intrusion. When the structure was constructed, the upstream/downstream water level differential was underestimated. As a result, discharges through the structure have had higher velocities than were anticipated in the original design. This has caused erosion downstream of the structure that, if left uncorrected, could jeopardize the stability of the structure. The project consists of repairing the down stream scour holes and installing energy dissipation features to prevent further erosion.

**RESTORATION BENEFITS:** If S-26 were to experience partial or total failure, saltwater could intrude up the canal and contaminate adjacent ground water. Depending on the severity of the failure, urban water supply wellfields could be contaminated and freshwater marshes could be impacted. Additionally, failure of the structure could result in uncontrolled discharge of fresh water into Biscayne Bay. The project can be implemented with existing authority. Detailed design is complete. Plans and specifications will be initiated in FY99. Construction could be initiated in FY99.

<b>TITLE:</b> Stormwater Treatment Area 1 East			
<b>SUBREGION :</b> 4	<b>PROJECT ID:</b> SE03	<b>FINANCIAL REQUIREMENT:</b>	
<b>PROGRAM CATEGORY:</b> Land Acquisition	<b>BUDGET CATEGORY:</b> Land Acquisition	Federal:	\$46,000,000
<b>PROJECT PLAN MANAGER:</b> C. Rinaldi (561) 682-6537	<b>BASIS:</b> 1,2	<b>TOTAL:</b>	\$46,000,000
<b>LEAD ORGANIZATION(S):</b> USACE, SFWMD		<b>APPROPRIATED TO DATE:</b>	
<b>SUPPORTING ORGANIZATION(S):</b> USDOJ		Federal:	\$46,000,000
<b>COUNTY(S):</b> Palm Beach		<b>TOTAL:</b>	\$46,000,000
<b>LINKED PROJECTS:</b> Dependent on: Critical to: GL33 Associated with:		<b>REMAINING FINANCIAL REQUIREMENT:</b>	
<b>START:</b> 1995		Federal:	\$0
<b>END:</b> 2002		<b>TOTAL:</b>	\$0
		<b>APPROVED:</b> 11/97	<b>LAST REVISION:</b> 7/98

**DESCRIPTION:** This project involves acquisition of approximately 6,500 acres located adjacent to the northeast boundary of the A. R. Marshall Loxahatchee National Wildlife Refuge, south of the C-51 canal in central Palm Beach County. The footprint reflects the combination of a 1,438 acre detention area for the C-51 West End Flood Control Project and an additional 5,063 acre stormwater treatment area (STA). This is consistent with the mediated technical plan developed for Everglades restoration in 1993 by the USACE, SFWMD, DOI, and other stakeholders.

**RESTORATION BENEFITS:** These lands are needed to implement the restoration plan identified in the proposed modifications to the 1992 Federal Consent Decree and the 1994 Everglades Forever Act. Restoration benefits include: (1) capture, storage, and clean-up of approximately 100,000 acre feet per year of excess stormwater currently lost to tide; (2) reduction in damaging freshwater discharges to the Lake Worth estuary; and (3) protection and conservation of wetlands and habitat values outside the Everglades.

*NOTE: The C-51 West End Flood Control Project is currently an authorized project, with the SFWMD responsible for 12.8 percent of construction costs, and 100 percent for land acquisition (and relocation) of the 1,438 acre detention area. The federal government is responsible for the remainder of the project costs. The 1994 Everglades Forever Act establishes a deadline for land acquisition of July 1, 1998, which coincides with the initial construction contract activity for the STA 1-East project.*

Time Line and Fiscal Year Budget (in thousands of dollars) for Stormwater Treatment Area 1 East							
Task	1998	1999	2000	2001	2002	Unprog	Total
Land Acquisition	46,000		--	--	--	--	46,000
Project							
<b>Subtotal</b>	<b>46,000</b>						<b>\$46,000</b>

<b>TITLE:</b> East Coast Buffer/Water Preserve Areas			
<b>SUBREGION :</b> 4	<b>PROJECT ID:</b> SE05	<b>FINANCIAL REQUIREMENT:</b>	
<b>PROGRAM CATEGORY:</b> Land Acquisition	<b>BUDGET CATEGORY:</b> Land Acquisition		
<b>PROJECT PLAN MANAGER:</b> Jackson (561)682-6334	<b>BASIS:</b> 2	<b>TOTAL:</b> \$314,400,000	
<b>LEAD ORGANIZATION(S):</b> SFWMD, DOI		<b>APPROPRIATED TO DATE:</b>	
<b>SUPPORTING ORGANIZATION(S):</b> USACE		DOI \$40,000,000	
<b>COUNTY(S):</b> Palm Beach, Broward, Miami-Dade		SFWMD \$40,000,000	
		<b>TOTAL:</b> \$80,000,000	
<b>LINKED PROJECTS:</b> Dependent on: Critical to: Associated with: TS01		<b>REMAINING FINANCIAL REQUIREMENT:</b>	
		<b>TOTAL:</b> \$234,000,000	
<b>START:</b> 1994	<b>END:</b> 2001	<b>APPROVED:</b> 11/97	<b>LAST REVISION:</b> 8/98

**DESCRIPTION:** The East Coast Buffer/Water Preserve Areas project involves acquisition of land parcels located along the eastern side of the Everglades Protection Area in western Palm Beach, Broward, and Miami-Dade Counties. Most of the lands in this project area are undeveloped, including a considerable amount of wetland habitat. Current land uses include very low intensity development, pasture land, and limestone mining. The original East Coast Buffer footprint was based on a land suitability analysis which selected lands primarily on the basis of those needed for controlling seepage from the Everglades. Since the original analysis, it has been determined that there are additional water storage and water quality treatment (e.g., S-9) requirements that will require more land. Some specific land parcels have already been identified; the precise acreage and locations for additional parcels needed for water storage and water quality treatment are being identified under the C&SF Project Comprehensive Review Study: Comprehensive Plan, Water Preserve Areas, and L-28 Feasibility Study. Parcels already targeted for acquisition include: (1) remaining P2000 lands (12,650 acres); (2) remaining lands within the Pennsuco wetlands; and (3) the buffer/flow-way in the western 8.5 Square Mile Area (1,065 acres).

**RESTORATION BENEFITS:** These lands are needed to implement the Everglades restoration plans being developed under the C&SF Project Comprehensive Review Study: Comprehensive Plan, Water Preserve Areas, and L-28 Feasibility Study. The ECB/WPA will consist of a series of surface-water areas that are interconnected and managed as a system of marshlands, reservoirs, water quality treatment areas, and/or aquifer recharge basins. The overall purposes of the project are to: (1) hold more water in the system by controlling seepage from the Everglades; (2) capture, store, and clean up excess stormwater currently lost to tide; (3) provide a buffer between the urban area and the Everglades; and (4) protect and conserve wetlands and habitat values outside the remaining Everglades. Restoration benefits include: improved water supply for restoring hydropatterns of the Everglades; improved water quality; and preservation of wetland habitat.

**NOTE:** Because of the extreme development pressure in this area, it is critical that this project be completed as quickly as possible before target parcels are developed or permitted for development.

<b>TITLE:</b> South Biscayne Bay Watershed Management Plan			
<b>SUBREGION :</b> 4	<b>PROJECT ID:</b> SE06	<b>FINANCIAL REQUIREMENT:</b>	
<b>PROGRAM CATEGORY:</b> Management	<b>BUDGET CATEGORY:</b>		
<b>PROJECT PLAN MANAGER:</b> Lee Rawlinson (305)375-2557	<b>BASIS:</b>	<b>TOTAL:</b> \$6,464,000	
<b>LEAD ORGANIZATION(S):</b> Miami-Dade County		<b>APPROPRIATED TO DATE:</b>	
<b>SUPPORTING ORGANIZATION(S):</b> SFWMD, Biscayne Natl Park			
<b>COUNTY(S):</b> Miami-Dade		<b>TOTAL:</b> \$3.266 Million	
<b>LINKED PROJECTS:</b> Dependent on: SE28, SE29 Critical to: Associated with: SE01, CE17, SE17, SE11, SE18		<b>REMAINING FINANCIAL REQUIREMENT:</b>	
		<b>TOTAL:</b> \$6.464 Million	
<b>START:</b> 1998	<b>END:</b> 2001	<b>APPROVED:</b> 11/97	<b>LAST REVISION:</b> 8/98

**DESCRIPTION:** The project involves preparing an integrated land use and water management plan for the South Biscayne Bay Watershed. This plan will direct the comprehensive management of land use, surface and ground water including its quality, quantity, timing and distribution; and will insure the restoration and sustainability of the environment, viable agriculture, flood protection and assist in the protection of the potable drinking water supply. The identification and establishment of land uses essential to sustaining Biscayne National Park, while protecting the constitutional private property rights of landowners is a primary objective of this plan.

**RESTORATION BENEFITS:** Miami-Dade County has in the past, and continues to have presently, a very high rate of population growth. The growing demands of the lower east coast of Florida are straining the water resources of the area at a time when the need for ecological restoration is approaching a critical point. The designation of a long-term land use plan for the basins in the study area predicated on a water management plan which insures protection of the downstream waterbodies, Biscayne Bay and Biscayne National Park, is critical. This comprehensive approach to address water quantity, water quality, flood protection, private property rights and agricultural production, is essential in achieving a restored, sustainable, natural system for the critical area.

Time Line and Fiscal Year Budget (in thousands of dollars) for South Biscayne Bay Watershed Mgmt Plan																
Task	97	98	99	00	01	02	03	04	05	06	07	08	09	10	Unprog	Total
<b>Project</b>																
DERM		152	402	250	202											1006
State of FL		229	479	250	200											1158
PDR			1034													1034
<b>Subtotal</b>		381	1915	500	402										3266	<b>\$6,464</b>

<b>TITLE:</b> Freshwater Lake Belts EIS			
<b>SUBREGION :</b> 4	<b>PROJECT ID:</b> SE07	<b>FINANCIAL REQUIREMENT:</b>	
<b>PROGRAM CATEGORY:</b>	<b>BUDGET CATEGORY:</b>	Federal - 100 percent	
Management	Management	Funding included in Comp Restudy TS01	
<b>PROJECT PLAN MANAGER:</b> Barron, 904-232-2203	<b>BASIS:</b> 3	<b>TOTAL:</b>	
<b>LEAD ORGANIZATION(S):</b> USACE		<b>APPROPRIATED TO DATE:</b>	
<b>SUPPORTING ORGANIZATION(S):</b> EPA, SFWMD		<b>TOTAL:</b>	
<b>COUNTY(S):</b> Miami-Dade		<b>REMAINING FINANCIAL REQUIREMENT:</b>	
<b>LINKED PROJECTS:</b> Dependent on: TS11, SE05, CE10 Critical to: Associated with:		<b>TOTAL:</b>	
<b>START:</b> 1996	<b>END:</b> 1999	<b>APPROVED:</b> 11/97	<b>LAST REVISION:</b> 8/98

**DESCRIPTION:** A large proportion of the limestone used in the State of Florida to produce cement and aggregate is quarried from areas of the Everglades west of Miami. The mining operations convert drained prairie, some of which has been overgrown with the exotic tree, melaleuca, into open lakes measuring close to a mile on each side and up to 80 feet deep. Approximately 5,000 acres have been mined, permits have been issued for an additional 5,000 acres, and a coalition of miners proposed a plan for mining an additional 16,000 acres over the next 50 years. In addition, this area is figuring prominently in the preparation of the Comprehensive Review Study of the Central and Southern Florida Project (C&SF Restudy.) This has brought together several Federal, State and local regulatory and planning agencies, industry representatives, conservation groups, and concerned citizens to study the 89 square mile area. The Florida Legislature established a Northwest Dade County Freshwater Lake Plan Implementation Committee (Committee) in 1992. The Committee submitted a report in February, 1997, describing a plan to quarry rock to the east while providing for funding to acquire and restore lands to the west. The Legislature extended the life of the Committee and asked for a Phase II report by December 31, 2000. The South Florida Ecosystem Restoration Working Group established an Issue Advisory Team in 1997. From six facilitated meetings, this Team developed alternative plans, evaluated each, developed a preferred plan, and recommended additional tasks. Subsequently, the Committee established a sub-committee to develop a mitigation plan. A plan was developed that provides for collection of a fee from all mining within the study area, the proceeds used to acquire and restore historic Everglades areas and to construct structures to prevent degradation (from mining) of hydro patterns in the restored lands. This arrangement is expected to be introduced during the next legislative session. The plan, alternatives, and other information will be described in the Draft Environmental Impact Statement document that is in the very final stages of preparation. The Corps Regulatory and C&SF Restudy project managers continue to coordinate with the work of the State Committee.

**RESTORATION BENEFITS:** The goal is to issue permits that balance the public need for the quarry products with environmental restoration goals for the Everglades, regional water management goals, and achieving a "no net loss" of wetland functions from mining activities. This project is funded through the Corps of Engineers regulatory program and no additional funding is required.

Time Line and Fiscal Year Budget (in thousands of dollars) for Freshwater Lake Belts EIS																
Task	97	98	99	00	01	02	03	04	05	06	07	08	09	10	Unprog	Total
Planning																
Project																
<i>Subtotal</i>																

<b>TITLE:</b> Establishing BMPs for Agricultural and Urban Areas of the Eastern C-111 Basin		
<b>SUBREGION :</b> 4	<b>PROJECT ID:</b> SE10	<b>FINANCIAL REQUIREMENT:</b>
<b>PROGRAM CATEGORY:</b> Science	<b>BUDGET CATEGORY:</b> Research	
<b>PROJECT PLAN MANAGER:</b> Klassen (305)-246-7038	<b>BASIS:</b> 1	<b>TOTAL:</b> \$17,690,000
<b>LEAD ORGANIZATION(S):</b> University of Florida/IFAS		<b>APPROPRIATED TO DATE:</b>
<b>SUPPORTING ORGANIZATION(S):</b> SFWMD, FDACS, FDEP, USDA,USACE, USEPA, USDI		
<b>COUNTY(S):</b> Miami-Dade		<b>TOTAL:</b> \$0
<b>LINKED PROJECTS:</b> Dependent on: Critical to: CE06, CE10 Associated with:		<b>TOTAL:</b> \$17,690,000
<b>START:</b> 1997	<b>END:</b> 2002	<b>APPROVED:</b> 11/97
		<b>LAST REVISION:</b> 2/98

**DESCRIPTION:** The overall goal is to improve and enhance agriculture as a valuable and durable agent in ecosystem restoration. University of Florida/ IFAS personnel, in cooperation with the South Florida Water Management District, the Florida Department of Agriculture and Consumer Services, the Florida Department of Environmental Protection, the US Environmental Protection Agency, and the US Department of Agriculture (ARS, CSREES, ERS and NRCS), will develop and extend best management practices (BMPs) to fruit, vegetable, landscape and ornamental growers and urban homeowners in the eastern C-111 Basin. The development, utilization and extensive adoption of the latest technologies to (1) minimize ground and surface water pollution, (2) greatly advance water use efficiency, (3) manage plant diseases, insects and weeds largely by means of biologically-based technologies, and (4) to reduce the vulnerability of crops to persistently high water tables in the C-111 Basin are the strategic objectives of the Project. This Project is essential to facilitate technical assistance needed to assure the widespread adoption of thoroughly researched and highly effective BMPs in the C-111 Basin. These BMPs will protect the Biscayne aquifer and prevent the introduction of toxicants and undesirable levels of nutrients into fragile marine and terrestrial ecosystems.

**RESTORATION BENEFITS:** At the end of the project, a comprehensive strategy together with commensurate technology will exist for a healthy agriculture that contributes to the restoration and maintenance fragile ecosystems within the C-111 Basin and in the adjacent marine areas. The project incorporates economics and works closely with extension in order to facilitate rapid adoption of the necessary technologies through teamwork involving researchers, extension workers, growers and homeowners throughout every phase of the project.

Time Line and Fiscal Year Budget (in thousands of dollars) for Establishing BMPs for Agricultural and Urban Areas of the Eastern C-111 Basin																
Task	97	98	99	00	01	02	03	04	05	06	07	08	09	10	Unpro	Total
Project																
#1	214	210	285	295	307											1,311
#2	818	554	582	559	587											3,099
#3	742	438	451	465	479											2,575
#4	1583	1003	1053	1106	1165											5,905
#5	1480	834	856	881	750											4,800
<b>Subtotal</b>	<b>4837</b>	<b>3039</b>	<b>3227</b>	<b>3306</b>	<b>3288</b>											<b>\$17,690</b>

- Task #1: Project management, economic research and GIS database.
- Task #2: Development of flood- and disease-tolerant fruit, vegetable and ornamental crops.
- Task #3: Raised-bed culture of tropical fruit, vegetable and ornamental crops.
- Task #4 Biologically-based IPM for crops and exclusion of exotic plants from fallow ground.
- Task #5 Control of point source pollution of water, water use requirements of crops, fertilizer leaching, and calibrated soil tests.

<b>TITLE:</b> Agriculture and Rural Land Retention Study			
<b>SUBREGION :</b> 4	<b>PROJECT ID:</b> SE11	<b>FINANCIAL REQUIREMENT:</b>	
<b>PROGRAM CATEGORY:</b> Science	<b>BUDGET CATEGORY:</b> Research		
<b>PROJECT PLAN MANAGER:</b> Lee Rawlinson 305/372-2557	<b>BASIS:</b> Gov.'s Com. Rec.#73	<b>TOTAL:</b> \$950,000	
<b>LEAD ORGANIZATION(S):</b> Miami-Dade County, SFWMD, DCA, Dade County Farm Bureau		<b>APPROPRIATED TO DATE:</b>	
<b>SUPPORTING ORGANIZATION(S):</b> NRCS, IFAS/ES , FDACS		<b>TOTAL:</b> \$400,000	
<b>COUNTY(S):</b> Miami-Dade		<b>REMAINING FINANCIAL REQUIREMENT:</b>	
<b>LINKED PROJECTS:</b> Dependent on: Critical to: CE20 Associated with: TS06, TS07, SE04		<b>TOTAL:</b> \$550,000	
<b>START:</b> 1998	<b>END:</b> 2000	<b>APPROVED:</b> 11/97	<b>LAST REVISION:</b> 2/98

**DESCRIPTION:** This project will examine agricultural and rural land use trends in Miami-Dade County. Agricultural industry practices associated with each major crop (or commodity), combined with existing surface and ground water hydrologic data, will be inventoried and analyzed. Economic data will be evaluated to establish strategies that will strengthen and sustain Miami-Dade County's agricultural industry. Policies and implementation initiatives will be developed for the purpose of preserving and promoting environmentally sound agriculture and rural character in this 180 square mile area. Specific project goals are to: 1) determine whether, and the extent to which, the County, SFWMD and other regulatory agencies (local, State and Federal) should adjust existing and establish new policies to retain agriculture as a viable economic land use in south Miami-Dade County; 2) determine the extent of this area in which such policies should be implemented; 3) determine any additional land uses and development standards that should be authorized to maintain or promote recommended agricultural and rural development; 4) develop a plan to accomplish the foregoing purposes, including implementation programs and actions.

**RESTORATION BENEFITS:** Miami-Dade County has in the past, and continues to have a very high rate of population growth. The growing demands of the lower east coast of Florida are straining the water resources of the area at a time when the need for ecological restoration is approaching a critical point. The development of sustainable, environmentally sensitive agriculture in south Miami-Dade County would provide a more environmentally superior land use than the prospect of uncontrolled urban expansion throughout these watershed. In comparison to urban development, agriculture has greatly reduced impacts on water quality and quantity, thus minimizing remediation requirements and costs. This project is prudent in addressing the political reality of coping with the increasing demands of urban growth and the need for sustainable agriculture within this critical south Miami-Dade area, adjacent to both Everglades and Biscayne National Parks.

Time Line and Fiscal Year Budget (in thousands of dollars) for																
Task	97	98	99	00	01	02	03	04	05	06	07	08	09	10	Unpro	Total
Project & Plan																
Project																
		100	400	450												950
<b>Subtotal</b>		100	400	450												<b>\$950</b>

<b>TITLE:</b> Hillsboro Demonstration ASR Project			
<b>SUBREGION :</b> 4	<b>PROJECT ID:</b> SE14	<b>FINANCIAL REQUIREMENT:</b>	
<b>PROGRAM CATEGORY:</b> Infrastructure	<b>BUDGET CATEGORY:</b> Infrastructure Investment	USACE :	\$ 4,00,000
<b>PROJECT PLAN MANAGER:</b> Louis Devillon 561 682-6383	<b>BASIS:</b> 2 Ecosystem Restoration	SFWMD:	\$ 4,00,000
<b>LEAD ORGANIZATION(S):</b> SFWMD, USACE		<b>TOTAL:</b>	\$ 8,000,000
<b>SUPPORTING ORGANIZATION(S):</b> Local Governments		<b>APPROPRIATED TO DATE:</b>	
<b>COUNTY(S):</b> Palm Beach, Broward		<b>TOTAL:</b>	\$0
<b>LINKED PROJECTS:</b> Dependent on: Critical to: Associated with:		<b>REMAINING FINANCIAL REQUIREMENT:</b>	
<b>START:</b> 1997	<b>END:</b> 1999	SFWMD:	
		USACE:	
		<b>TOTAL:</b>	\$ 8,000,000
		<b>APPROVED:</b> 11/97	<b>LAST REVISION:</b> 8/98

**DESCRIPTION:** This project will implement a regional Aquifer Storage and Recovery (ASR) demonstration project in the Hillsboro canal region to capture and store excess flows that are currently released to tide for use during dry periods. It is anticipated that operation of the system would reduce discharge to the coastal water-bodies resulting in additional storage within the regional system. Recovery of the stored ASR water will be utilized to recharge local utility wellfields helping to prevent further inland migration of the saline interface. Historically, water is brought into the Hillsboro Canal basin to supply local urban users from the Water Conservation Areas and Lake Okeechobee. Area users include the Lake Worth Drainage District, the City of Boca Raton, Palm Beach County and Broward County. The demonstration project would consist of four 5 MGD Floridan Aquifer System wells and at least eight 2.5 MGD Surficial aquifer wells. Water will be withdrawn from the surficial aquifer and injected into the Floridan Aquifer System for later retrieval. It is anticipated that extensive discussions with EPA and DEP will be required. It is projected that water supply deliveries will increase to approximately 130,000 AF/yr for Lower East Coast Service Area 1. Full scale implementation of this option should provide approximately 60,000 AF/yr of this demand allowing the 60,000 AF/yr to be utilized to help meet restoration goals. This project represents the initial demonstration and testing phase.

In addition, the SFWMD is working with the Palm Beach County Water Utilities Department to develop an additional two 5 mgd ASR wells and associated ten 1 mgd surficial wells (Eastern Site) to be located east of the SFWMD site described above (Western Site). These wells would be operated in a manner to provide regional water resource benefits as well as water supply benefits to the utility. The anticipated cost of this (Eastern Site) is estimated to be \$ 9,000,000 in addition to the \$ 8,000,000 mentioned above.

**RESTORATION BENEFITS:** By creating additional storage in the region, less water will be required from the regional system to the urban areas which could then be used to meet restoration needs. This project will provide information needed to design and implement larger scale ASR projects that will address the future water resource needs of the Lower East Coast.

Time Line and Fiscal Year Budget (in thousands of dollars) for Hillsboro ASR Pilot Project (Western Site)																
Task	97	98	99	00	01	02	03	04	05	06	07	08	09	10	Unprog	Total
Permitting	██████████															
Construction				██████████												
Testing					██████████											
<b>Project</b>																
USACE				550	2100	750										
SFWMD		300	900	550	2100	750										
<b>Subtotal</b>		300	900	1100	4200	1500										<b>\$ 8,000</b>

<b>TITLE: North Fork of the New River Restoration</b>																																										
<b>SUBREGION :</b> 4	<b>PROJECT ID:</b> SE15	<b>FINANCIAL REQUIREMENT:</b> To complete current Restoration Plan																																								
<b>PROGRAM CATEGORY:</b> Infrastructure	<b>BUDGET CATEGORY:</b> Water quality and/or habitat protection, Infrastructure investment.	<table style="width: 100%; border-collapse: collapse;"> <tr><td style="padding: 2px;">Revegetation pilot project</td><td style="text-align: right; padding: 2px;">\$67,700</td><td></td></tr> <tr><td style="padding: 2px;">Develop analytical tools</td><td style="text-align: right; padding: 2px;">\$8,500</td><td></td></tr> <tr><td style="padding: 2px;">Water quality/flow study</td><td style="text-align: right; padding: 2px;">\$71,100</td><td></td></tr> <tr><td style="padding: 2px;">Accumulated debris removal</td><td style="text-align: right; padding: 2px;">\$48,650</td><td></td></tr> <tr><td style="padding: 2px;">Shoreline Master Plan</td><td style="text-align: right; padding: 2px;">\$62,000</td><td></td></tr> <tr><td style="padding: 2px;">Broward Urban River Trails</td><td style="text-align: right; padding: 2px;">\$49,000</td><td></td></tr> <tr><td style="padding: 2px;">Dredging design and permit</td><td style="text-align: right; padding: 2px;">\$55,000</td><td></td></tr> <tr><td style="padding: 2px;">Spot dredging</td><td style="text-align: right; padding: 2px;">\$350,000</td><td></td></tr> <tr><td style="padding: 2px;">Operational flow feasibility study</td><td style="text-align: right; padding: 2px;">\$40,000</td><td></td></tr> <tr><td style="padding: 2px;">Eastward Ho</td><td style="text-align: right; padding: 2px;">\$75,000</td><td></td></tr> <tr><td style="padding: 2px;">Operation and Maintenance</td><td style="text-align: right; padding: 2px;">\$122,016 (revegetation plots)</td><td></td></tr> <tr><td style="padding: 2px;">Implement shoreline master plan</td><td style="text-align: right; padding: 2px;">\$520,000</td><td></td></tr> <tr><td colspan="2" style="padding: 2px;"><b>TOTAL:</b></td><td style="text-align: right; padding: 2px;"><b>\$1,474,966</b></td></tr> </table>		Revegetation pilot project	\$67,700		Develop analytical tools	\$8,500		Water quality/flow study	\$71,100		Accumulated debris removal	\$48,650		Shoreline Master Plan	\$62,000		Broward Urban River Trails	\$49,000		Dredging design and permit	\$55,000		Spot dredging	\$350,000		Operational flow feasibility study	\$40,000		Eastward Ho	\$75,000		Operation and Maintenance	\$122,016 (revegetation plots)		Implement shoreline master plan	\$520,000		<b>TOTAL:</b>		<b>\$1,474,966</b>
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<b>PROJECT PLAN MANAGER:</b> Jennifer Schaufele (954/519-1253)	<b>BASIS:</b> 2	<b>APPROPRIATED TO DATE:</b>																																								
<b>LEAD ORGANIZATION(S):</b> Broward County Department of Natural Resource Protection		<table style="width: 100%; border-collapse: collapse;"> <tr><td style="padding: 2px;">Revegetation pilot project</td><td style="text-align: right; padding: 2px;">\$67,700</td><td style="padding: 2px;">FDEP, BC</td></tr> <tr><td style="padding: 2px;">Develop analytical tools</td><td style="text-align: right; padding: 2px;">\$8,500</td><td style="padding: 2px;">FDEP,BC</td></tr> <tr><td style="padding: 2px;">Water quality/flow study</td><td style="text-align: right; padding: 2px;">\$71,100</td><td style="padding: 2px;">FDEP,BC</td></tr> <tr><td style="padding: 2px;">Accumulated debris removal</td><td style="text-align: right; padding: 2px;">\$48,650</td><td style="padding: 2px;">SFWMD,BC</td></tr> <tr><td style="padding: 2px;">Shoreline Master Plan</td><td style="text-align: right; padding: 2px;">\$62,000</td><td style="padding: 2px;">SFWMD,BC</td></tr> <tr><td style="padding: 2px;">Broward Urban River Trails</td><td style="text-align: right; padding: 2px;">\$49,000</td><td style="padding: 2px;">SFWMD,BC</td></tr> <tr><td style="padding: 2px;">Dredging design and permit</td><td style="text-align: right; padding: 2px;">\$55,000</td><td style="padding: 2px;">FIND,BC</td></tr> <tr><td style="padding: 2px;">Spot dredging</td><td style="text-align: right; padding: 2px;">\$350,000</td><td style="padding: 2px;">SFWMD,BC</td></tr> <tr><td style="padding: 2px;">Operational flow feasibility study</td><td style="text-align: right; padding: 2px;">\$40,000</td><td style="padding: 2px;">SFWMD,BC</td></tr> <tr><td style="padding: 2px;">Eastward Ho</td><td style="text-align: right; padding: 2px;">\$75,000</td><td style="padding: 2px;">SFWMD,BC</td></tr> <tr><td style="padding: 2px;">Operation and Maintenance</td><td style="text-align: right; padding: 2px;">\$2400</td><td style="padding: 2px;">BC</td></tr> <tr><td colspan="2" style="padding: 2px;"><b>TOTAL:</b></td><td style="text-align: right; padding: 2px;"><b>\$829,350</b> *FDEP and SFWMD funds originated as a state appropriation for the North Fork restoration.</td></tr> </table>		Revegetation pilot project	\$67,700	FDEP, BC	Develop analytical tools	\$8,500	FDEP,BC	Water quality/flow study	\$71,100	FDEP,BC	Accumulated debris removal	\$48,650	SFWMD,BC	Shoreline Master Plan	\$62,000	SFWMD,BC	Broward Urban River Trails	\$49,000	SFWMD,BC	Dredging design and permit	\$55,000	FIND,BC	Spot dredging	\$350,000	SFWMD,BC	Operational flow feasibility study	\$40,000	SFWMD,BC	Eastward Ho	\$75,000	SFWMD,BC	Operation and Maintenance	\$2400	BC	<b>TOTAL:</b>		<b>\$829,350</b> *FDEP and SFWMD funds originated as a state appropriation for the North Fork restoration.			
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<b>SUPPORTING ORGANIZATION(S):</b> (Florida Department of Community Affairs), FDEP		<b>REMAINING FINANCIAL REQUIREMENT:</b>																																								
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<b>LINKED PROJECTS:</b> <b>Dependent on :</b> Critical to : Associated with: Eastward Ho SE20		<b>APPROVED:</b>																																								
<b>START:</b> 1997	<b>END:</b> 2003	<b>LAST REVISION:</b> Aug 7, 1998																																								

**DESCRIPTION:** The New River is one of the few naturally occurring surface water bodies in Broward County. Prior to the 1900's, the New River was a prominent drainage feature of the Everglades that seasonally emptied into the Atlantic Ocean. In 1993, DNRP research identified many sources of ongoing and historic pollution. DNRP developed the New River Restoration Plan (1994) to improve water quality, to enhance the River system's biological diversity, and to create a more pristine condition for the inhabitants of this habitat as well as for the enjoyment of the human population of the urban Everglades.

**RESTORATION BENEFITS:** The intent of the Restoration Plan was to improve the ecologically functional of the New River System and to highlight it as major aesthetic asset to the community. To achieve these goals, DNRP began to implement the plan and in the last three years has received appropriations from the State legislature to implement a feasibility study to improve water flow, to spot dredge shoaled and contaminated areas, begin shoreline restoration including a revegetation pilot project and begin design of a shoreline master plan, remove accumulated debris and support community efforts such as Eastward Ho and the Broward Urban River Trails- A Link in the Florida Greenways Program. While many of these projects are already funded, DNRP is in the early stages of implementation. Additional funds are needed to implement the shoreline master plan upon its completion within the next 2 years.

*Southeast Coast- Sub-Region 4*

Time Line								
Task	97	98	99	0	01	02	03	\$ spent
Revegetation pilot project	44,362	23338						44362
Develop analytical tools	4800	3700						4800
Water quality/flow study	45434	31666						45434
Accumulated debris removal			48650					0
Shoreline Master Plan			62000					0
Broward Urban River Trails			34000	15,000				0
Dredging design and permit		2000	53000					2000
Spot dredging			175000	175000				0
Operational flow feasibility study			20000	20000				0
Eastward HO!			15000	30000	30000			0
Implement shoreline master plan					173,333	173,333	173,333	0
Operation and Maintenance		2400	4800	4800	18336	36672	55008	1600
Annual budget	94,596	63,104	412,450	244,800	221,669	210,005	228,341	\$1,474,966

<b>TITLE:</b> L-31E Flow Redistribution Project			
<b>SUBREGION:</b> 4	<b>PROJECT ID:</b> SE17	<b>FINANCIAL REQUIREMENT:</b>	
<b>PROGRAM CATEGORY:</b> Infrastructure	<b>BUDGET CATEGORY:</b> Infrastructure Investment	USACE: \$ 600,000	
<b>PROJECT PLAN MANAGER:</b> Rick Alleman (561) 682-6716	<b>BASIS:</b>	SFWMD: \$ 600,000	
<b>LEAD ORGANIZATION (S):</b> SFWMD, USACE		<b>TOTAL:</b> \$1,200,000	
<b>SUPPORTING ORGANIZATION (S):</b> NPS, M-D DERM, FDEP		<b>APPROPRIATED TO DATE:</b>	
<b>COUNTY (S):</b> Miami-Dade		<b>TOTAL:</b> \$0	
<b>LINKED PROJECTS:</b> Dependent on: Critical to: Associated with: TS19, SE06, SE28, SE34, SE38		<b>REMAINING FINANCIAL REQUIREMENT:</b>	
<b>START:</b> 1997		<b>TOTAL:</b> \$1,200,000	
<b>END:</b> 2000		<b>APPROVED:</b> 11/97	<b>LAST REVISION:</b> 7/98

**DESCRIPTION:** The L-31E Flow Redistribution Critical Project consists of constructing a freshwater distribution system along a 3.5 mile length of the L-31E levee and borrow canal from salinity control structures S-20G (Canal 103) to S-21A (Canal 102). Work will include a series of culverts to convey water from the borrow canal along the west side of the levee into wetlands on the east side.

**RESTORATION BENEFITS:** Historically, freshwater entered the southern Biscayne Bay estuary through a series of creeks and sloughs. The L-31E levee system was constructed in the 1960s and cut off this natural flow of water. The primary canal system in the southern Biscayne Bay watershed was designed for flood control. Freshwater is indiscriminately discharged from a few control structures into the estuary. Consequently, the estuary is dysfunctional. Freshwater cannot be utilized effectively by the ecosystem. Typical estuarine biological communities are not adapted to frequent and wide swings in salinity that occurs at the mouths of these canals. Studies have documented pauperized benthic communities near the canal discharge zones and even destruction of seagrass beds from slugs of freshwater.

This project will install a freshwater distribution system to facilitate restoring more natural flows of freshwater into Biscayne Bay. Based upon data from ongoing studies, freshwater flow will be restored into the mangrove wetlands at suitable locations. The water will become available to the ecosystem and the numerous species that depend on transitional salinity regimes potentially including the American crocodile, snook and oysters, thus enhancing biological diversity. Water quality of the discharge is expected to improve from natural processes and uptake in the wetlands.

Restoration benefits are threefold. The volumes of freshwater discharged at salinity control structures will be reduced, thereby reducing the frequency of damaging wide swings in salinity at those locations. Freshwater will be delivered into wetlands and made available to estuarine communities thus restoring some of the natural function of the ecosystem. Pollutant loading of Biscayne Bay will be reduced by providing opportunity for natural processes to remove contaminants.

Time Line and Fiscal Year Budget (in thousands of dollars) for L-31E																
Task	97	98	99	00	01	02	03	04	05	06	07	08	09	10	Unprog	Total
Research																\$ 200
Design/ Construct																\$1,000
<b>Project</b>																
SFWMD	100	100	200	200												600
USACE			300	300												600
<b>Subtotal</b>	100	100	500	500												\$1,200

<b>TITLE:</b> Lake Worth Lagoon Restoration			
<b>SUBREGION :</b> 4	<b>PROJECT ID:</b> SE19	<b>FINANCIAL REQUIREMENT:</b> (Proposed)	
<b>PROGRAM CATEGORY:</b> Management	<b>BUDGET CATEGORY:</b> Water Quality/Habitat Protection	Palm Beach County	\$500,000
<b>PROJECT PLAN MANAGER:</b> J. Barry (561) 233-2400	<b>BASIS:</b> 2	USACE	\$1,500,000
		<b>TOTAL:</b>	\$2,000,000
<b>LEAD ORGANIZATION(S):</b> Palm Beach County Department of Environmental Resources Management		<b>APPROPRIATED TO DATE:</b>	
<b>SUPPORTING ORGANIZATION(S):</b> SFWMD			
<b>COUNTY(S):</b> Palm Beach		<b>TOTAL:</b>	\$0
<b>LINKED PROJECTS:</b> Dependent on: Critical to: Associated with:		<b>REMAINING FINANCIAL REQUIREMENT:</b>	
		Palm Beach County	\$500,000
		USACE	\$1,500,000
		<b>TOTAL:</b>	\$2,000,000
<b>START:</b> 1998	<b>END:</b> 2001	<b>APPROVED:</b> 11/97	<b>LAST REVISION:</b> 2/98

**DESCRIPTION:** This proposal will be broken into three phases of work. Phase 1 will examine both quantity and quality of bottom sediment accumulations both within the C-51 canal and downstream discharge area within the Lake Worth Lagoon. Phase 2 will develop a plan and project design to provide for sediment removal/capping that could include creating a series of sediment traps along the C-51 where sediment accumulations potentially increase. Phase 3 will involve the removal of bottom sediments within the C-51 canal as well as implementing a prototype project to either remove or cap the organic bottom layer within the lagoon. Palm Beach County has been actively involved in managing the Lake Worth Lagoon since 1989. Subsequent to a 1990 study, a 2.5 mile area located within the region of the C-51 canal discharge was found to be severely blanketed by accumulated organic material. This mucky sediment was found to be up to several feet thick creating unnatural, anaerobic substrate devoid of invertebrate life and marine grasses. This has resulted in a loss of fisheries and wildlife habitat and a continued suppression decline of commercial and recreational fish species found within the lagoon. The elimination of the organically enriched sediment from the C-51 Canal discharge will provide for long term improvements to the lagoon and ensure success for enhancement projects currently planned by the county.

**RESTORATION BENEFITS:** This project will provide immediate benefits in the elimination of the organically-enriched sediments that have accumulated within a 2.5 mile area of the lagoon as well as significantly reducing the flocculent sediments within the C-51 canal that currently flow into the lagoon after rain events. This elimination of polluted sediments will improve water quality and allow for the re-establishment of sea grasses and benthic invertebrate communities. Johnson's sea grass (*Halophila johnsonii*), currently on a list of proposed threatened species, is very common to the Lake Worth Lagoon and would likely re-establish with improvements to water quality. The overall increase in habitat will provide an additional source of food and shelter for many of the estuarine/marine fish species as well as critical habitat for many endangered species of birds and other wildlife.

Time Line and Fiscal Year Budget (in thousands of dollars) for Lake Worth Lagoon Restoration																
Task	98	99	00	01	02	03	04	05	06	07	08	09	10	11	Unprog	Total
Feasibility Study																
Plans & Designs																
Construction																
<b>Project</b>																
Palm Beach	100	100	300	0												500
USACE	0	0	0	1500												1,500
<b>Subtotal</b>	100	100	300	1500												<b>\$2,000</b>

<b>TITLE:</b> Eastward Ho! Corridor Rival Development Trends Fiscal Impact Analysis		
<b>SUBREGION :</b> 4	<b>PROJECT ID:</b> SE20	<b>FINANCIAL REQUIREMENT:</b>
<b>PROGRAM CATEGORY:</b> Management	<b>BUDGET CATEGORY:</b> Research, Information Management and Assessment	<b>TOTAL:</b> \$150,000
<b>PROJECT PLAN MANAGER:</b> Phyllis Mofson, (850) 922-1608	<b>BASIS:</b> 2	<b>APPROPRIATED TO DATE:</b>
<b>LEAD ORGANIZATION(S):</b> FDCA		<b>TOTAL:</b> \$150,000
<b>SUPPORTING ORGANIZATION(S):</b> USEPA		<b>REMAINING FINANCIAL REQUIREMENT:</b>
<b>COUNTY(S):</b> Miami-Dade, Broward, Palm Beach, Martin, St. Lucie		<b>TOTAL:</b> \$0
<b>LINKED PROJECTS:</b> Dependent on: Critical to: Associated with:		<b>APPROVED:</b> 11/97
<b>START:</b> 1997	<b>END:</b> 1998	<b>LAST REVISION:</b> 2/98

**DESCRIPTION:** The purpose of this study is to compare the costs of *trend* (status quo) development patterns to *plan* development patterns (infill development and redevelopment consistent with the Eastward Ho! initiative) in southeastern Florida's urban areas. The results of the study will be used to evaluate and fine tune Eastward Ho! development objectives and -- if the numbers favor plan development -- to educate and build public and local government support of the Eastward Ho! Initiative.

**RESTORATION BENEFITS:** As part of a comprehensive effort to restore, preserve and protect the South Florida ecosystem, the Governor's Commission for a Sustainable South Florida recommended in it's October 1995 initial report the implementation of an urban redevelopment initiative known as Eastward Ho!. In an effort to slow the westward spread of suburban sprawl from Southeast Florida into the Everglades ecosystem, Eastward Ho! aims to spur infill development and redevelopment in a largely urban 150-mile corridor spanning much of the eastern portions of Dade, Broward and Palm Beach, Martin and St. Lucie counties. Everglades Restoration will require the slowing or reversal of this western development trend, and successful implementation of Eastward Ho! depends on a clear understanding of its benefits among corridor local governments, residents and potential developers.

Time Line and Fiscal Year Budget (in thousands of dollars) for Eastward Ho! Corridor Rival Development Trends Fiscal Impact Analysis																
Task	97	98	99	00	01	02	03	04	05	06	07	08	09	10	Unprog	Total
Program																
Project																
EPA	75	75														\$150
<b>Subtotal</b>	75	75														<b>\$150</b>

<b>TITLE:</b> East Coast Canal Structures: C-4*			
<b>SUBREGION :</b> 4	<b>PROJECT ID:</b> SE21	<b>FINANCIAL REQUIREMENT:</b>	
<b>PROGRAM CATEGORY:</b> Infrastructure	<b>BUDGET CATEGORY:</b> Infrastructure Investment	A.	\$2,326,000
<b>PROJECT PLAN MANAGER:</b> Jorge Marban 561/682-6501	<b>BASIS:</b> 2	(Funding for this project may be through joint cost sharing between SFWMD, USACE, and WASA.)	
		<b>TOTAL:</b>	\$2,326,000
<b>LEAD ORGANIZATION(S):</b> SFWMD, USACE		<b>APPROPRIATED TO DATE:</b>	
<b>SUPPORTING ORGANIZATION(S):</b> Miami-Dade COUNTY (WASA)		<b>TOTAL:</b>	\$0
<b>COUNTY(S):</b> Miami-Dade		<b>REMAINING FINANCIAL REQUIREMENT:</b>	
<b>LINKED PROJECTS: Dependent on:</b> Critical to: LEC WATER SUPPLY PLAN, EVERGLADES RESTORATION			
Associated with: TS01		<b>TOTAL:</b>	\$2,326,000
<b>START:</b> 1998	<b>END:</b> 2001	<b>APPROVED:</b> 11/97	<b>LAST REVISION:</b> 2/98

\* This project was initially proposed with two components, structure(s) at the C-4 canal and the C-6 canal. Potential flooding of adjacent lands at the proposed C-6 canal location would necessitate extensive land acquisition and would prevent the completion of the project within the Critical Project time line. The C-6 structure project will be considered under the Restudy Program.

**DESCRIPTION:** This project, will involve the construction of water control structures on the C-4 (Tamiami Canal) to help reduce seepage losses from the Everglades. This project calls for the construction of gated water control structure(s) in the western reach of the Tamiami Canal. Such structure(s) will increase water levels in the southern end of the Pennsuco wetlands and thereby reduce seepage out of WCA-3B. This project will increase the efficiency of the proposed Water Preserve Area concept, while providing immediate benefit to Everglades National Park and the Pennsuco wetlands.

**RESTORATION BENEFITS:** The proposed structures have the potential to maintain higher water levels in the area west of the Miami-Dade-Broward levee. Previous modeling of the C-4 structure(s) showed increased overland flows to Everglades National Park by approximately 90,000 af/year, on average, resulting in a 15 percent improvement in hydropatterns in the Park. Hydropatterns also improved in WCA-3B and the Pennsuco wetlands. Seepage losses also were reduced from the eastern edge of Everglades National Park. The C-4 structure(s) helped increase ground water elevations in the vicinity of Miami Dade Water and Sewer Authorities western and Northwestern wellfields while improving the South Florida Water Management District's ability to meet minimum flows and levels for the Biscayne aquifer in central-eastern Miami-Dade County. The exact location of the C-4 structures would be evaluated through engineering & design studies and the NEPA process.

Time Line and Fiscal Year Budget (in thousands of dollars) for East Coast Canal Structures: C-4																
Task	97	98	99	00	01	02	03	04	05	06	07	08	09	10	Unprog	Total
<b>Project</b>																
			275	1146	905											2326
<b>Subtotal</b>			275	1146	905											<b>\$2,326</b>

<b>TITLE:</b> A Program to Reduce Phosphorous, Nitrogen and Pesticide Runoff and Leaching from Turf/Grass into South Florida Surface and Ground Waters		
<b>SUBREGION :</b> 9	<b>PROJECT ID:</b> SE24	<b>FINANCIAL REQUIREMENT:</b>
<b>PROGRAM CATEGORY:</b> Public Information and Education	<b>BUDGET CATEGORY:</b> Water Quantity	
<b>PROJECT PLAN MANAGER:</b> George H. Snyder, and J. L. Clsar	<b>BASIS:</b>	<b>TOTAL:</b> \$280,000
<b>LEAD ORGANIZATION(S):</b> University of Florida, IFAS, Everglades Research and Education Center, Belle Glade, and Ft. Lauderdale Research and Education Center		<b>APPROPRIATED TO DATE:</b>
<b>SUPPORTING ORGANIZATION(S):</b> NRCS, SFWMD (Proposed)		<b>TOTAL:</b> \$100,000
<b>COUNTY(S):</b> Palm Beach, Broward, Miami-Dade		<b>REMAINING FINANCIAL REQUIREMENT:</b>
<b>LINKED PROJECTS:</b> Dependent on: Critical to: Associated with: State Project FLA-BGL-03460		<b>TOTAL:</b> \$180,000
<b>START:</b> July 1, 1997	<b>END:</b> June 30, 2000	<b>APPROVED:</b>
		<b>LAST REVISION:</b> 8/98

**DESCRIPTION:** Turfgrasses are widely used in urban areas of south Florida for home lawns, roadsides, and golf courses in close proximity to surface and groundwaters. Agrichemicals applied to the turf can run off into adjacent surface waters and leach into groundwaters which now, or in the future, may be hydrologically linked to the Everglades, Florida Bay, and Biscayne Bay. South Florida ecosystem restoration requires improved quality of run-off and percolate waters from urban areas. Using current knowledge and that which will come from on-going research, an education program is proposed to inform both professional and lay turf managers on methods for reducing agrichemical runoff and leaching from turfgrass in urban areas. A run-off/ leaching demonstration facility will be constructed for training and education. Information will be disseminated through field days, extension programs, degree programs, publications, and radio/TV public service announcements. Changes in turfgrass management practices which protect and improve water resources will be documented.

**RESTORATION BENEFITS:** Agrichemical (pesticides, P, and N) runoff and leaching from turfgrass in urban areas will be reduced.

Time Line and Fiscal Year Budget (in thousands of dollars) for A Program to Reduce Phosphorous, Nitrogen and Pesticide Runoff and Leaching from Turf/Grass into South Florida Surface and Groundwaters																
Task	97	98	99	00	01	02	03	04	05	06	07	08	09	10	Unprog	Total
Assemble current BMP information		20	15													
Construct and operate runoff and leaching demonstration facility		40	60	40	20											
Present water protection information			20	30	15											
Monitor results of program			5	10	5											
<b>Project</b>		<b>60</b>	<b>100</b>	<b>80</b>	<b>40</b>											
<i>Subtotal</i>		60	100	80	40											\$280

<b>TITLE:</b> Palm Beach County: Lake Worth Lagoon Florida yards & Neighborhoods Program			
<b>SUBREGION :</b> 4	<b>PROJECT ID:</b> SE25	<b>FINANCIAL REQUIREMENT:</b>	
<b>PROGRAM CATEGORY:</b> Public Info & Education	<b>BUDGET CATEGORY:</b> Water Quality & Habitat Prot.	IFAS	\$150,000
<b>PROJECT PLAN MANAGER:</b> Godwin	<b>BASIS:</b> 3	USACE	\$150,000
<b>LEAD ORGANIZATION(S):</b> IFAS, UF, PBCES		<b>TOTAL:</b>	\$300,000
<b>SUPPORTING ORGANIZATION(S):</b>		<b>APPROPRIATED TO DATE:</b>	
<b>COUNTY(S):</b> Palm Beach		<b>TOTAL:</b>	
<b>LINKED PROJECTS:</b> Dependent on: Critical to: Associated with: TS22, TS31, TS34, TS6		<b>REMAINING FINANCIAL REQUIREMENT:</b>	
<b>START:</b> 1997	<b>END:</b> 1999	<b>TOTAL:</b>	\$300,000
		<b>APPROVED:</b>	<b>LAST REVISION:</b>

**DESCRIPTION:** The Florida Yards and Neighborhoods Program will reduce: storm water pollution, pesticide and fertilizer use, while encouraging: mulching and recycling, exotic pest plant removal (Melaleuca, Brazilian Pepper, Australian Pine and Earleaf Acacia), wildlife habitat, and BMP by enlisting the homeowner and the commercial horticulture industry to practice environmentally friendly landscape principles. This will be accomplished through the development of: 1) educational programs and publications (including a commercial FY&N handbook) utilizing the infrastructure of the PBC Cooperative Extension Service and the Master Gardener volunteers, 2) both radio and video public service announcements and programs, 3) educational slide presentations, 4) portable educational displays, and 5) demonstration gardens.

**RESTORATION BENEFITS:** The project will result in homeowners educated to use and/ or request BMP's from the commercial horticulture industry, while also providing education and training to the industry to meet these needs. The changes in practices will have a positive impact on Lake Worth Lagoon through a reduction of both water consumption the release of release of nonpoint source pollutants from urban and rural residences into the system.

Time Line and Fiscal Year Budget (in thousands of dollars) for Palm Beach County: Lake Worth Lagoon Florida yards & Neighborhoods Program																
Task	97	98	99	00	01	02	03	04	05	06	07	08	09	10	Unprog	Total
Dem Gardens	█	█	█													
Com. Handbk	█	█	█													
Com/Home Brsh	█	█	█													
Com Training	█	█	█													
Home Training	█	█	█													
Slide Sets	█	█	█													
PSA & Video	█	█	█													
<b>Project</b>																
IFAS/CES	110	95	95													
<b>Subtotal</b>	110	95	95													\$300

<b>TITLE:</b> Miami- Dade County Archipelago			
<b>SUBREGION :</b> 4	<b>PROJECT ID:</b> SE26	<b>FINANCIAL REQUIREMENT:</b> Local State <b>TOTAL:</b> \$35,439,907 (estimated)	
<b>PROGRAM CATEGORY:</b> Land Acquisition	<b>BUDGET CATEGORY:</b> Land Acquisition		
<b>Project Plan Manager:</b> John Outland (850) 488-4892	<b>BASIS:</b> 1, and 3	<b>APPROPRIATED TO DATE:</b> Local and State <b>TOTAL:</b> \$30,549,839	
<b>LEAD ORGANIZATION(S):</b> FDEP, Miami-Dade County			
<b>SUPPORTING ORGANIZATION(S):</b>		<b>REMAINING FINANCIAL REQUIREMENT:</b> Local State <b>TOTAL:</b> \$4,890,068	
<b>COUNTY(S):</b> Dade			
<b>LINKED PROJECTS:</b> Dependent on: Critical to: Associated with:		<b>APPROVED:</b> 11/97 <b>LAST REVISION:</b> 7/98	
<b>START:</b> 1997	<b>END:</b> 1999		

**DESCRIPTION:** This project includes 1023 acres in Miami-Dade County and contains some of the most outstanding examples of rockland hammock that remain in Miami-Dade County, as well as the best remaining examples of the highly endangered pine rockland natural community outside of Everglades National Park. The Miami Rockridge Pinelands sites located within the County's urban development boundary are considered upland and developable. All sites are zoned residential, agricultural, or general use. The trees and endemics are also sensitive to adjacent development and agricultural activities.

**RESTORATION BENEFITS:** The subtropical pinelands occur exclusively on the Miami Ridge and have been dramatically reduced in acreage by urbanization. Numerous rare and endangered plant species and several animal species, many of which occur nowhere else, occur within the project area. The lands will be used as a botanical site to preserve the unique and endangered plant communities.

<b>TITLE:</b> South Dade Wetlands Addition		
<b>SUBREGION :</b> 4	<b>PROJECT ID:</b> SE27	<b>FINANCIAL REQUIREMENT:</b>
<b>PROGRAM CATEGORY:</b> Land Acquisition	<b>BUDGET CATEGORY:</b> Land Acquisition, Water Quality & Habitat Protection	<b>TOTAL:</b> \$35,000,000
<b>PROJECT PLAN MANAGER:</b> Frost (305) 230-1144	<b>BASIS:</b> 3	<b>APPROPRIATED TO DATE:</b>
<b>LEAD ORGANIZATION(S):</b> NPS		<b>TOTAL:</b> \$0
<b>SUPPORTING ORGANIZATION(S):</b> Friends of the Everglades, DERM		<b>REMAINING FINANCIAL REQUIREMENT:</b>
<b>COUNTY(S):</b> Miami-Dade		<b>TOTAL:</b> \$35,000,000
<b>LINKED PROJECTS:</b> Dependent on: Critical to: SE06, SE28 Associated with: SE01		<b>APPROVED:</b> 11/97
<b>START:</b> 1997	<b>END:</b> TBD	<b>LAST REVISION:</b> 2/98

**DESCRIPTION:** This acquisition involves purchase of development rights, easements, and fee title in the South Dade Wetlands Addition, approximately 7,000 acres in south Miami-Dade County immediately north of the of the South Dade Wetlands and west of the coastal wetlands of Biscayne National Park. The Addition encompasses all or part of Sections 28, 29, 32, and 33 in Township 56, Range 40 East; Sections 4, 5, 7, 8, 9, 17,18,19, and 20 in Township 57 South, Range 40 East. Ownership is mixed public and private. The addition is composed of native forested wetlands, sawgrass glades, prairies, and cattail marsh as well as exotics-dominated wetlands, agricultural land, rock mines, and undeveloped open space.

The acquisition will be a combined federal and county effort. It encompasses some tracts designed for purchase by Miami-Dade County's Endangered Environmental lands (EEL) program and complements the work of the county's Biscayne National Park Land Trust Working Group. Portions of the wetlands are already owned by the county or The Nature Conservancy.

**RESTORATION BENEFITS:** This acquisition will facilitate and expand protection of the South Dade Wetlands and will re-connect fragmented wetlands and open spaces that are essential to the hydrology of Biscayne Bay. It will help buffer coastal and freshwater wetlands from the impacts of rapid urban development occurring in South Miami-Dade. This large, contiguous area will contribute to restoring the quality, timing, and distribution of surface and ground water deliveries into the coastal waters. In addition, several threatened or endangered plants and animals are present in this part of Miami-Dade County and their protection will be improved by the acquisition. They include the snail kite, Peregrine Falcon, American crocodile, cape sable sparrow, woodstork and bald eagle.

*NOTE: Estimated costs of acquisition range from \$4,000 to \$10,000 per acre. At an average cost of \$7,000 per acre the estimated acquisition cost is \$21,000,000. This total includes future acquisitions by the county, depending on the availability of funds.*

<b>TITLE:</b> Biscayne Bay Feasibility Study		
<b>SUBREGION :</b> 4	<b>PROJECT ID:</b> SE28	<b>FINANCIAL REQUIREMENT:</b> Federal, Miami-Dade County, SFWMD/Phase I
<b>PROGRAM CATEGORY:</b> Management	<b>BUDGET CATEGORY:</b> Area Management	Phase I - \$1,100,000
<b>PROJECT PLAN MANAGER:</b> Glenn Landers (904) 232-2125	<b>BASIS:</b> 2	Phase II - \$1,040,000
<b>LEAD ORGANIZATION(S):</b> USACE		Phase III - \$3,450,000
<b>SUPPORTING ORGANIZATION(S):</b> Miami-Dade County, SFWMD, Biscayne National Park (non financial partner)		<b>TOTAL:</b> \$5,590,000
<b>COUNTY(S):</b> Dade		<b>APPROPRIATED TO DATE:</b>
<b>LINKED PROJECTS:</b> Dependent on:		Phase I \$1,100,000 Fed \$550K + Non-Fed \$550K
	Critical to: SE06, SE29	Phase II \$ 204,000 Fed \$204K
	Associated with: TS1, CE36	<b>TOTAL:</b> \$1,304,000 Fed + Non-Fed
<b>START:</b> 1997	<b>END:</b> 2004	<b>REMAINING FINANCIAL REQUIREMENT:</b>
		<b>TOTAL:</b> \$4,286,000 total project
		<b>APPROVED:</b> 11/97
		<b>LAST REVISION:</b> 7/98

**DESCRIPTION:** Biscayne Bay is a shallow estuary located along the southeast coast of Florida. Biscayne Bay and its unique environment contribute to the economic health of the area through tourism, commercial and recreational fishing, and general recreation. The shoreline and bottoms of Biscayne Bay have been subjected to extensive alterations by local development and the C&SF Project. The cumulative impacts of these projects on water quality of Biscayne Bay are not known. An updated reconnaissance report was completed in July 1995 that proposed developing a modeling system for Biscayne Bay as the first step of a study to address effects of Federal projects on water circulation, biological communities, and water quality of the bay. The Corps executed a Feasibility Cost Sharing Agreement (FCSA) with Miami-Dade County for the Phase I effort in October 1995. Phase I is addressing the creation of a hydrodynamic model, Phase II will develop a water quality model, and Phase III will create biological models of the Bay. The study is authorized, a cost-sharing agreement has been executed by the Corps and Miami-Dade County for phase 1 and work is underway. Federal funds appropriated in FY 94 were used to update the reconnaissance report and to cost-share Phase I of the Feasibility Study (\$550K). At the request of the local sponsor, initiation of Phase II studies has been delayed while water quality data is reviewed to determine if materials other than nutrients, i.e. toxics, should be added to the scope of work. Initial Federal funding for Phase II studies has been secured as indicated above.

**RESTORATION BENEFITS:** The goal of the Biscayne Bay ecosystem models is to provide to resource managers a tool to analyze and evaluate the hydrodynamic water quality and biological impacts on Biscayne Bay resulting from the implementation of proposed modifications to or changes in the operation of the C&SF Project.

Time Line and Fiscal Year Budget (in thousands of dollars) for Biscayne Bay Feasibility Study																
Task	97	98	99	00	01	02	03	04	05	06	07	08	09	10	Unprog	Total
Phase I	█	█	█													1100
Phase II			█	█	█	█	█									1040
Phase III					█	█	█	█								3450
Project																
<b>Subtotal</b>																<b>\$5,590</b>

<b>TITLE:</b> Comprehensive Water Quality Standards for Biscayne Bay			
<b>SUBREGION :</b> 8, 9	<b>PROJECT ID:</b> SE29	<b>FINANCIAL REQUIREMENT:</b>	
<b>PROGRAM CATEGORY:</b> Management/Science	<b>BUDGET CATEGORY:</b> Natural Resources Management	<b>TOTAL:</b> \$350,000	
<b>PROJECT PLAN MANAGER:</b> Frost (305) 230-1144	<b>BASIS:</b> 3	<b>APPROPRIATED TO DATE:</b>	
<b>LEAD ORGANIZATION(S):</b> NPS		<b>TOTAL:</b> \$0	
<b>SUPPORTING ORGANIZATION(S):</b> Miami-Dade County Department of Environmental Resource Management, SFWMD, FDEP		<b>REMAINING FINANCIAL REQUIREMENT:</b>	
<b>COUNTY(S):</b> Dade, Broward, Monroe		<b>TOTAL:</b> \$350,000	
<b>LINKED PROJECTS: Dependent on:</b> Critical to: SE28 Associated with: TS15		<b>APPROVED:</b> 11/97	
<b>START:</b> 1997	<b>END:</b> 1999	<b>LAST REVISION:</b> 2/98	

**DESCRIPTION:** Develop water quality standards to regulate and control nutrients and other pollutants being discharged into Biscayne Bay, Card Sound, and Barnes Sound. In northern Biscayne Bay many of the common biological processes have been lost or severely depressed because of habitat destruction. Water quality has also been adversely affected by stormwater runoff. Here the Bay has been degraded primarily because of development combined with a disregard of upland, wetland, and Bay interactions and the linkage between biological processes and high quality of water. This project would include the following phases of work: (1) locate and collate literature and unpublished data; (2) field verification of data and determination of its applicability to existing conditions; (3) prepare regulatory recommendations for action by Florida Legislature and possibly the EPA.

**RESTORATION BENEFITS:** These standards will be applied by all levels of government to prevent further degradation and restore water quality in the bay. As the local area continues to develop and as restoration efforts are implemented within developed areas as well natural areas within the South Florida ecosystem, water quality standards are needed so that Federal, State, and county agencies can prudently manage the growth of the greater Miami area.

For many years Biscayne Bay has been ecologically degraded by habitat destruction, hydrologic alterations and a wide variety of water-borne pollutants, including urban and agricultural runoff, industrial discharges, and sewage. Specific water quality standards would aid in more effectively controlling the type and quantity of pollutants discharged, by providing regulatory agencies with the authority to apply needed controls. The benefit would ultimately bring an improvement in the ecological condition of the Bay.

Time Line and Fiscal Year Budget (in thousands of dollars) for Comprehensive Water Quality Standards for Biscayne Bay																
Task	97	98	99	00	01	02	03	04	05	06	07	08	09	10	Unprog	Total
Program																
Project																
																350
<b>Subtotal</b>																<b>\$350</b>

<b>TITLE:</b> South Florida Community – Urban Resources Partnership Ecosystem Restoration Project		
<b>SUBREGION :</b> 4 & 6	<b>PROJECT ID:</b> SE31	<b>FINANCIAL REQUIREMENT:</b> USDA
<b>PROGRAM CATEGORY:</b> Management/ Public Information	<b>BUDGET CATEGORY:</b> Water Quality, Habitat Restoration, Natural Resource Management	
<b>PROJECT PLAN MANAGER:</b> Thaddeus Hamilton (954) 792-1984	<b>BASIS:</b> 2,3	<b>TOTAL:</b> \$1,000,000.00
<b>LEAD ORGANIZATION(S):</b> USDA- NRCS & FS		<b>APPROPRIATED TO DATE:</b> USDA- NRCS ----- \$260,000.00 USDA- FS ----- \$210,000.00
<b>SUPPORTING ORGANIZATION(S):</b> HUD,BSWCD, FWS, Extension Service, EPA		<b>TOTAL:</b> \$470,000.00
<b>COUNTY(S):</b> Palm Beach, Monroe, Broward & Miami-Dade		<b>REMAINING FINANCIAL REQUIREMENT:</b> USDA
<b>LINKED PROJECTS:</b> Dependent on: Critical to: Associated with:		
<b>START:</b> 1998	<b>END:</b> 2000	<b>TOTAL:</b> \$530,000.00
		<b>APPROVED:</b>
		<b>LAST REVISION:</b> 8/98

**DESCRIPTION:** This project will assist with the funding coordination, and administration of a multitude of small ecosystem restoration projects ranging from \$5,000 to \$35,000 in the Quad county area (Monroe, Palm Beach, Broward and Miami-Dade). It is the intent of this South Florida Community-Urban Resources Partnership Ecosystem Restoration Project to facilitate and enable community organizations, environmental groups, local agencies educational institutions, citizen groups, nonprofit groups and interested parties to work closely with one another to address environmental projects. These mini-environmental projects will be geared toward grassroots and community – based efforts to allow for partnering and community empowerment as it relates to the South Florida Ecosystem Restoration Initiative. This project is consistent with the overall goals and objectives of the South Florida Community- Urban Resources Partnership (SFCURP).

**RESTORATION BENEFITS:** Provide a comprehensive and community approach to promoting water conservation, reducing the water supply dependence on Lake Okeechobee, eliminating invasive species, and protecting the resources of Biscayne National Park and other regional preserves. It would also protect the coastal and urban resources of the South Florida ecosystem. Additional restoration benefits would include ensuring environmental protection and preventing point source and non-point source pollution in the region, through education and empowerment of communities regarding pollution control. Moreover, the project will foster volunteerism, strengthen then local and community support for the South Florida Ecosystem Restoration Initiative and will result in greater buy-in from a broader array of stakeholders.

Time Line and Fiscal Year Budget (in thousands of dollars) for South Florida Community – Urban Resources Partnership Ecosystem Restoration Project																
Task	97	98	99	00	01	02	03	04	05	06	07	08	09	10	Unprog	Total
Program																
Project																
USDA- NRCS		90	170													
USDA-FS		60	150													
<b>Subtotal</b>		<b>150</b>	<b>320</b>													<b>\$470</b>

<b>TITLE:</b> Ground-Water Quality Discharge Standards		<b>FARM BILL PRIORITY:</b> 27	
<b>SUBREGION :</b> 4	<b>PROJECT ID:</b> SE32	<b>FINANCIAL REQUIREMENT:</b>	
<b>PROGRAM CATEGORY:</b> Management	<b>BUDGET CATEGORY:</b> Information Management and Assessment		
<b>PROJECT PLAN MANAGER:</b> Dick Frost/Curry (305) 239-1144	<b>BASIS:</b> 1	<b>TOTAL:</b> \$750,000	
<b>LEAD ORGANIZATION(S):</b> FDEP or EPA		<b>APPROPRIATED TO DATE:</b>	
<b>SUPPORTING ORGANIZATION(S):</b> SFWMD, Miami-Dade County Department of Environmental Resource Management			
<b>COUNTY(S):</b> All		<b>\$0</b>	
<b>LINKED PROJECTS:</b> Dependent on: Critical to: TS08 Associated with: SE29		<b>REMAINING FINANCIAL REQUIREMENT:</b>	
<b>START:</b> 1997	<b>END:</b> 1999	<b>TOTAL:</b> \$750,000	
		<b>APPROVED:</b> 11/97	<b>LAST REVISION:</b> 2/98

**DESCRIPTION:** The project is intended to establish limits on the type and content of pollutants that are disposed underground into water bearing zones. It would explore the development of standards for the purpose of identifying harmful water-borne contaminants and regulatory limitations or criteria that would be applied to reduce or eliminate contamination of ground-water resources in the South Florida ecosystem.

As the population of South Florida continues to grow, there is an increasing use demand upon ground water, as well as an increasing potential for contamination of that limited resource. For example, there are currently proposals intended to increase surface-water availability and usability through decontamination and storage. The impact of these is not yet fully understood, but some appear to have the potential for causing significant ground-water contamination. Deep well injection, a current activity, is used to dispose at depth below freshwater zones a wide variety of wastes, the impact, also, of which is not known. In view of suggestions to use water from the Floridian aquifer to raise water levels in the Everglades ecosystem, and the critical importance of ground water as the fundamental drinking water supply, there is a urgent need to identify both the types and limitations of pollutants that can safely be disposed of in this manner.

**RESTORATION BENEFITS:** Standards for subsurface waste disposal into water bearing strata would provide protection of drinking water supplies in the Biscayne and deeper Floridian aquifers. Standards should be established for the discharge of waste into these aquifers as well as for the aquifers themselves.

Time Line and Fiscal Year Budget (in thousands of dollars) for Ground-Water Quality Discharge Standards																
Task	97	98	99	00	01	02	03	04	05	06	07	08	09	10	Unprog	Total
Program																
Project																
FDEP																
EPA																
<i>Subtotal</i>																

<b>TITLE:</b> Ground-Water Quantity in Coastal Environments			
<b>SUBREGION :</b> 7	<b>PROJECT ID:</b> SE33	<b>FINANCIAL REQUIREMENT:</b>	
<b>PROGRAM CATEGORY:</b> Management	<b>BUDGET CATEGORY:</b> Water Quality	<b>TOTAL:</b> \$400,000	
<b>PROJECT PLAN MANAGER:</b> Dick Frost/Curry (305) 230-1144	<b>BASIS:</b> 2	<b>APPROPRIATED TO DATE:</b>	
<b>LEAD ORGANIZATION(S):</b> FDEP or EPA		<b>REMAINING FINANCIAL REQUIREMENT:</b>	
<b>SUPPORTING ORGANIZATION(S):</b> SFWMD, Miami-Dade County Department of Environmental Resource Management			
<b>COUNTY(S):</b>		<b>TOTAL:</b> \$400,000	
<b>LINKED PROJECTS:</b> Dependent on: SE32 Critical to: TS08 Associated with:		<b>APPROVED:</b> 11/97	
<b>START:</b> 1997	<b>END:</b> 1999	<b>LAST REVISION:</b> 2/98	

**DESCRIPTION:** This project will result in a ground-water hydrology model for the South Florida ecosystem, and will consist of three phases: (1) locating and collating existing published and unpublished data; (2) conducting field verification of existing data and determining applicability to existing ground-water quality and quantity conditions; (3) analyzing data and developing a set of regulatory recommendations for action by the Florida Legislature and possibly the Environmental Protection Agency.

**RESTORATION BENEFITS:** The restoration of the South Florida ecosystem will require the reallocation of Florida's freshwater resources to provide the quantity of water needed by the Everglades ecosystem. Only recently has there developed widespread concern over the ground-water component of the hydrologic balance and its relation to overall restoration and the continued availability of the important resource. There currently is inadequate information on ground-water hydrology (flow, distribution, movement, recharge/discharge, etc.) and particularly what impacts restoration activities will have on it. This project will develop a conceptual model of ground-water hydrology for the South Florida ecosystem that will aid in designing restoration activities that benefit the total hydrologic balance and preserve and maintain the critical ground-water resource of South Florida.

Time Line and Fiscal Year Budget (in thousands of dollars) for Ground-Water Quantity in Coastal Environments																
Task	97	98	99	00	01	02	03	04	05	06	07	08	09	10	Unprog	Total
Program																
Project																
FDEP																
EPA																
<b>Subtotal</b>																<b>\$300</b>

<b>TITLE: Surface Water Management Master Plan for the Former Homestead Air Force Base</b>			
<b>SUBREGION :</b> 4	<b>PROJECT ID:</b> SE34	<b>FINANCIAL REQUIREMENT:</b> TBD	
<b>PROGRAM CATEGORY:</b> Management	<b>BUDGET CATEGORY:</b> Area Management	<b>TOTAL:</b>	
<b>PROJECT PLAN MANAGER:</b> Pedro Hernandez 305-876-7928	<b>BASIS:</b> 1	<b>APPROPRIATED TO DATE:</b>	
<b>LEAD ORGANIZATION(S):</b> Dade County Aviation Dept., USAF		<b>TOTAL:</b>	
<b>SUPPORTING ORGANIZATION(S):</b> State of Florida		<b>REMAINING FINANCIAL REQUIREMENT:</b>	
<b>COUNTY(S):</b> Miami-Dade		<b>TOTAL:</b>	
<b>LINKED PROJECTS:</b> Dependent on: SE01 Critical to: SE06 Associated with:			
<b>START:</b>	<b>END:</b>	<b>APPROVED</b> 11/97	<b>LAST REVISION:</b> 2/98

**DESCRIPTION:** The project involves preparing a Surface Water Management Master Plan for the Homestead Air Reserve Station and the proposed Homestead Regional Airport that would provide an ecologically sound guide for redeveloping the former Homestead Air Force Base. It would involve exploring the best approach to address flood control, water quality, water quantity, wetland protection, and other water resource issues related to the redevelopment of the Base. The plan's principle goal will be to minimize the quantity and improve the quality of, off-site discharges, and other water resource issues. The plan shall provide that all new development and re-development will, at a minimum, comply with all District and Miami-Dade County regulatory criteria in effect at the time of application, including requirements for on-site stormwater detention, industrial stormwater management, and requirements to implement surface water management Best Management Practices.

**RESTORATION BENEFITS:** As the U.S. Air Force rapidly moves toward conveying the Homestead Air Force Base to Dade County, there is increased pressure to redevelop the base as a major regional airport. A sound surface water management plan would ensure compatibility between South Florida ecosystem restoration efforts and the redevelopment. To ensure the protection of the resources of Biscayne National Park and the coastal resources of the South Florida ecosystem, a comprehensive Base surface water management plan needs to be in place before, or close to the time of final conveyance of the Base.

Time Line and Fiscal Year Budget (in thousands of dollars) for Surface Water Management Master Plan for the former Homestead Air Force Base																
Task	97	98	99	00	01	02	03	04	05	06	07	08	09	10	Unprog	Total
Plan																
Project																
DERM																
<b>Subtotal</b>																

<b>TITLE:</b> New River Forest Restoration Project			
<b>SUBREGION :</b> 4	<b>PROJECT ID:</b> SE35	<b>FINANCIAL REQUIREMENT:</b>	
<b>PROGRAM CATEGORY:</b> Management/Public Education	<b>BUDGET CATEGORY:</b> Natural Resource Management Habitat Protection	Incomplete due to lack of management plans.	
<b>PROJECT PLAN MANAGER:</b> Eric Myers (954/519-1230)	<b>BASIS:</b> 2	Exotic Vegetation Control	500,000
<b>LEAD ORGANIZATION(S):</b> Broward County		Shoreline Stabilization	750,000
<b>SUPPORTING ORGANIZATION(S):</b> SFWMD		Boardwalk & Signage	750,000
<b>COUNTY(S):</b> Broward		<b>TOTAL:</b>	<b>\$2,220,000</b>
<b>LINKED PROJECTS:</b> Dependent on: CE22		<b>APPROPRIATED TO DATE:</b>	
Critical to:		Rewatering project	\$ 220,000
Associated with: TS14, SE15		<b>TOTAL:</b>	<b>\$ 220,000</b>
<b>START:</b> 1997	<b>END:</b> 2005	<b>REMAINING FINANCIAL REQUIREMENT:</b>	
		Exotic Vegetation Control	500,000
		Shoreline Stabilization	650,000
		Boardwalk & Signage	750,000
		<b>TOTAL:</b>	<b>\$1,900,000</b>
		<b>APPROVED:</b> 11/97	<b>LAST REVISION:</b> 2/98

**DESCRIPTION:** The New River Forest (Pond Apple Slough Ecosystem) Restoration Project will help restore the remaining 200+ acres of freshwater riverine forest system adjacent to the South Fork of the New River. The various tracts of forest are in a variety of public and private ownerships and would benefit from implementation of an area-wide management plan. Important management needs include exotic vegetation control, shoreline stabilization and salinity management. Some aspects of this are being addressed through mitigation funding while other elements remain unfunded. In addition, the site(s) offer great potential for environmental education and research opportunities. Funding is being sought to construct a boardwalk with signage and to assist in exotic vegetation control in the various parcels. This area is also included in the Broward Urban River Trails - A Link in the Florida Greenways System.

**RESTORATION BENEFITS:** The project would help ensure the preservation of the largest remaining stand of freshwater riverine forest in the Lower East Coast and Urban Area District (Subregion 9). Presently, access is very limited and could be improved to provide important environmental educational opportunities in the region.

Time Line and Fiscal Year Budget (in thousands of dollars) for New River Forest Restoration Project																
Task	97	98	99	00	01	02	03	04	05	06	07	08	09	10	Unprog	Total
Rewatering																
Veg Control																
Shore Stabilization																
Board/Signage																
<b>Project</b>																
Rewatering	10	50	120	40												220
Veg Control			100												500	500
Shore Stabilization															750	750
Board/Signage															750	750
<b>Subtotal</b>																<b>\$2,220</b>

<b>TITLE: Miami-Dade County Environmentally Endangered Lands Program</b>			
<b>SUBREGION :</b> 4	<b>PROJECT ID:</b> SE37	<b>FINANCIAL REQUIREMENT:</b>	
<b>PROGRAM CATEGORY:</b> Land Acquisition	<b>BUDGET CATEGORY:</b> Land Acquisition	Miami-Dade County: \$43,500,000	Florida Communities Trust: \$ 1,900,000
<b>PROJECT PLAN MANAGER:</b> Dade Co: Young (305) 372-6687	<b>BASIS:</b>	FDEP: \$ 3,950,000	<b>TOTAL:</b> \$49,350,000
<b>LEAD ORGANIZATION(S):</b> Mismi-Dade County		<b>APPROPRIATED TO DATE:</b>	
<b>SUPPORTING ORGANIZATION(S):</b> Florida Communities Trust, Fl. Dept. Of Env. Protection		Miami-Dade County: \$ 13,600,000	Florida Communities Trust: \$ 1,900,000
<b>COUNTY(S):</b> Miami-Dade		FDEP: \$ 3,950,000	<b>TOTAL:</b> \$ 19,450,000
<b>LINKED PROJECTS:</b> Dependent on : Critical to : Associated with :		<b>REMAINING FINANCIAL REQUIREMENT:</b>	
<b>START:</b> 1991		Miami-Dade County: \$ 29,900,000	Florida Communities Trust: \$ 1,548,000
<b>END:</b> Unknown		FDEP: \$ 0	<b>TOTAL:</b> \$ 31,488,000
<b>APPROVED:</b> 1991		<b>LAST REVISION:</b> 11/1998	

**DESCRIPTION:** This project includes 2,100 acres in Miami-Dade County, 405 of which have been acquired. **The above totals do not include** the EEL Program’s joint acquisition of 900 acres of the Miami-Dade County Archipelago **and do not include** the 49,000 acre South Miami-Dade Wetlands Project with the South Florida Water Management District’s Save Our Rivers Program, which are accounted for separately in this report.

These sites include the best remaining highly endangered pine rocklands outside of Everglades National Park, the best remaining examples of tropical rockland hammock that remain in Miami-Dade County, small scrub sites and extensive coastal wetlands. Most of the remnant upland forest sites within the urban development boundary are developable, and some of those outside the boundary could be cleared for agricultural use. All sites are zoned residential, agricultural, or general use. The native habitats are also sensitive to adjacent development and agricultural activities.

**RESTORATION BENEFITS:** The globally endangered rockridge pinelands occur exclusively on the Miami Ridge. Both pinelands and hammocks have been dramatically reduced in acreage by urbanization. Numerous endemic, rare, and endangered plant species and several rare endemic animal species occur within the project area. The lands will be used as preserves for the unique and endangered plant communities. The sites will provide connections with existing natural areas, increase their effective size, thereby improving their sustainability. In some cases the acquired sites will buffer important natural areas from the detrimental impacts of urban development.

Time Line and Fiscal Year Budget (in thousands of dollars) for : Miami-Dade County Environmentally Endangered Lands Program																
Task	97-98	99	00	01	02	03	04	05	06	07	08	09	10	11	Unpr og	Total
Land Acquisition:																
Project																
Acres to be Acquired	465	100	133	133	133	133	133	133	133	100	100	100	100	100	104	2,100
Purchase Price (in 1,000s of dollars)	17,659	1500	2000	2000	2000	2,000	2,000	2,000	2,000	1,500	1,500	1,500	1,500	1,500	8691	49,350
<b>Subtotal</b>																<b>\$49,350</b>

<b>TITLE:</b> Military Canal Remediation		
<b>SUBREGION :</b> 4	<b>PROJECT ID:</b> SE38	<b>FINANCIAL REQUIREMENT:</b> TBD
<b>PROGRAM CATEGORY:</b> Infrastructure	<b>BUDGET CATEGORY:</b> Water Quality, Habitat Protection, Infrastructure Investment	
<b>PROJECT PLAN MANAGER:</b> Richard Frost (305) 230-1144	<b>BASIS:</b>	<b>TOTAL:</b>
<b>LEAD ORGANIZATION(S):</b> NPS, EPA		<b>APPROPRIATED TO DATE:</b>
<b>SUPPORTING ORGANIZATION(S):</b> FDEP, SFWMD , Miami-Dade DERM		
<b>COUNTY(S):</b> Miami-Dade County		<b>TOTAL:</b>
<b>LINKED PROJECTS:</b> Dependent on: Critical to:           SE06 Associated with:   SE01		<b>REMAINING FINANCIAL REQUIREMENT:</b>
<b>START:</b> 1997	<b>END:</b>	<b>TOTAL:</b>
		<b>APPROVED:</b> 11/97 <b>LAST REVISION:</b> 2/98

**DESCRIPTION:** Scientific data is available from past studies and will soon be available from a study being completed by EPA, to further identify the characteristics, degree, and extent of contamination in Military Canal. Based on this analysis, the participating agencies will agree on the appropriate action, lead agencies, and funding sources. The proposed project will (1) Evaluate alternatives for remediation of contaminants in Military Canal using available scientific and engineering data, (2) prepare engineering design and specifications for selected alternative, and (3) implement the selected alternative.

**RESTORATION BENEFITS:** Sediments in Military Canal have been found to hold contaminants which could end up in Biscayne Bay and Biscayne National Park. There is concern that the existing contaminants may be conveyed to Biscayne National Park during flow events, leading to further sediment and water quality degradation. Canal improvements achieved through this project will be integrated into broader stormwater management actions for this part of South Florida, including improvement of quality, quantity, timing, and distribution of surface water and sediments into Biscayne Bay and Biscayne National Park.

<b>TITLE:</b> Biscayne Bay Ecosystem Risk Assessment			
<b>SUBREGION :</b> 4	<b>PROJECT ID:</b> SE39	<b>FINANCIAL REQUIREMENT:</b>	
<b>PROGRAM CATEGORY:</b> Management	<b>BUDGET CATEGORY:</b> Water Quality & Habitat Protection		
<b>PROJECT PLAN MANAGER:</b> Dick Frost 230-1144	<b>BASIS:</b> 3	<b>TOTAL:</b> \$ 1,200,000	
<b>LEAD ORGANIZATION(S):</b> NPS		<b>APPROPRIATED TO DATE:</b>	
<b>SUPPORTING ORGANIZATION(S):</b> DERM, SFWMD, USACE, Univ. Of Miami		<b>TOTAL:</b> \$ 0	
<b>COUNTY(S):</b> Miami-Dade		<b>REMAINING FINANCIAL REQUIREMENT:</b>	
<b>LINKED PROJECTS:</b> Dependent on: Critical to: Associated with: TS01; SE05; SE06; SE30; SE29; LEC22-I; Cumulative Stressors		<b>TOTAL:</b> \$ 1,200,000	
<b>START:</b> 1998	<b>END:</b> 2001	<b>APPROVED:</b> 11/97	<b>LAST REVISION:</b> 2/98

**DESCRIPTION:** Biscayne Bay comprises a unique set of biotic communities that includes coastal mangrove forest, seagrass flats, islands, and coral reefs. These ecosystems contribute to the long-term economic health of the region through tourism, valuable fishery resources, and recreational opportunities. Biscayne Bay has been subject to significant changes in water quantity and quality from local urbanization and the alteration of surface and ground water flows. The proposed project would assess the ecological risks associated with basin-wide changes in water quality and water delivery schedules on biotic communities in the bay and reef tract. To accomplish this, quantitative baseline ecological information would be collected in each major biotic community (Task 1). Community structural and functional elements will be employed to establish biotic indices that will permit an evaluation of biological integrity and aquatic health (Task 2). Links between canal inflow and ecosystem components will be integrated employing bay circulation models to establish a relationship between bay inflow, water quality, seagrass production, upper trophic level consumers such as fish, and biotic indices (Task 3). This integrated model will permit assessment of risks and environmental impacts from changes in water quality, quantity, and inflow schedules. This project relies in part on results of current research (Cumulative Effects of Natural and Anthropogenic Stressors; Biscayne Bay Feasibility Study) to provide a framework of related landscape elements and the relative importance of identified anthropogenic stressors. The proposed project will develop quantitative relationships between stressors and ecosystem elements for predictive models to evaluate the consequences of water and land management actions on the biotic communities of Biscayne Bay.

**RESTORATION BENEFITS:** Changes to water management operations in South Florida that will be required by implementation of the C&SF Project Restudy for ecosystem restoration will result in changes to surface and groundwater delivery to Biscayne Bay. This will result in large-scale changes to salinity patterns in the bay and in effluent concentrations in canals. The impacts of these actions to the integrity and health of bay ecosystems are not known. This information is critical for understanding the consequences of regional water management alternatives on biotic communities in Biscayne Bay and the reef tract. This project will provide the means for assessing water and land management options for restoration and protect the integrity of Biscayne Bay ecosystems.

Southeast Coast- Sub-Region 4

Time Line and Fiscal Year Budget (in thousands of dollars) for Biscayne Bay																
Task	97	98	99	00	01	02	03	04	05	06	07	08	09	10	Unprog	Total
Task 1																
Task 2																
Task 3																
Task 4																
Project																
		510	265	175	250											<b>1200</b>
<i>Subtotal</i>																\$1,200

<b>TITLE: Cumulative Effects of Natural and Anthropogenic Stressors</b>			
<b>SUBREGION :</b> 4, 6	<b>PROJECT ID:</b> SE40	<b>FINANCIAL REQUIREMENT:</b>	
<b>PROGRAM CATEGORY:</b> Science	<b>BUDGET CATEGORY:</b> Research	<b>TOTAL:</b> \$6,250,000	
<b>PROJECT PLAN MANAGER:</b> Carole Goodyear 305/361-4255	<b>BASIS:</b> 3	<b>APPROPRIATED TO DATE:</b>	
<b>LEAD ORGANIZATION(S):</b> NOAA Coastal Ocean Program		<b>TOTAL:</b> \$4,450,000	
<b>SUPPORTING ORGANIZATION(S):</b> University of Miami Center for Marine and Environmental Analyses		<b>REMAINING FINANCIAL REQUIREMENT:</b>	
<b>COUNTY(S):</b> Miami-Dade, Monroe		<b>TOTAL:</b> \$1,800,000	
<b>LINKED PROJECTS:</b> Dependent on: Critical to: Associated with: TS62, CE18, FK14, FK15, FK17, FK18, FK21, SE06, SE10, SE17, SE18, SE20, SE28, SE29, SE30		<b>TOTAL:</b> \$1,800,000	
<b>START:</b> 1995	<b>END:</b> 2001	<b>APPROVED:</b> 11/97	<b>LAST REVISION:</b> 8/4/98

**DESCRIPTION:** This is a multiyear research program that addresses ecosystem issues on community to landscape levels in the geographic area of Biscayne Bay through the upper Florida Keys reef tract to Long Key. The program is developing integrated seascape-level models supported by laboratory and field research and designed to produce an integrated decision-support system for managers and policymakers. The primary foci for research and assessment activities are sustainability of the fish community, ecosystem integrity of the coral reef tract, and ecosystem integrity of the Biscayne Bay system. For the bay, emphasis is on mapping change in distribution of habitats, modeling stability of the habitat mosaic, characterizing habitat qualities important to fish community sustainability, and addressing primary anthropogenic stressors affecting mangrove and seagrass communities. For the reef tract, emphasis is on characterizing health of the system relative to spatial distribution and changes in community composition or productivity in response to natural or anthropogenic stressors. The study also includes a societal component to illustrate the connections between society's actions and choices and resultant environmental effects. All information will be integrated into a framework that can be used to identify critical linkages between society and ecological systems, rank the associated risks, and predict consequences of management options on the health and sustainability of the region's ecological and societal systems.

**RESTORATION BENEFITS:** This is the only comprehensive research program addressing community-level to landscape- and seascape-level issues in the area of Biscayne Bay through the Upper Keys. It will provide a management and risk analysis framework capable of addressing the complex environmental and societal issues that characterize the coastal environment of South Florida.

Time Line and Fiscal Year Budget (in thousands of dollars) for Cumulative Effects of Natural and Anthropogenic Stressors																
Task	95-97	98	99	00	01	02	03	04	05	06	07	08	09	10	Unprog	Total
Program																
Project																
Program	2650	1800	900	900												
<b>Subtotal</b>	2650	1800	900	900												\$6,250

<b>TITLE:</b> Western C-11 Basin Water Quality Improvement Project			
<b>SUBREGION :</b> 4	<b>PROJECT ID:</b> SE41	<b>FINANCIAL REQUIREMENT:</b>	
<b>PROGRAM CATEGORY:</b> Infrastructure, Management	<b>BUDGET CATEGORY:</b> Infrastructure		
<b>PROJECT PLAN MANAGER:</b> Melissa Dollar 904/232-3848	<b>BASIS:</b> 1	<b>TOTAL:</b> \$14,000,000	
<b>LEAD ORGANIZATION(S):</b> USACE		<b>APPROPRIATED TO DATE:</b>	
<b>SUPPORTING ORGANIZATION(S):</b> SFWMD, local drainage districts			
<b>COUNTY(S):</b> Broward		<b>TOTAL:</b> \$0	
<b>LINKED PROJECTS: Dependent on:</b>		<b>REMAINING FINANCIAL REQUIREMENT:</b>	
<b>Critical to:</b> ENP5-I			
<b>Associated with:</b> ENP1-I, WCA3A-I, TS1		<b>TOTAL:</b> \$14,000,00	
<b>START:</b> 1997	<b>END:</b> 2002	<b>APPROVED:</b> 11/97	<b>LAST REVISION:</b> 8/98

**DESCRIPTION:** The purpose of this project, proposed for funding under the WRDA 1996 Critical Project authority, is to improve the quality and timing of stormwater from the C-11 Basin to the Everglades Protection Area. The project will be located in the C-11 basin at the S-9 structure, located in Broward County at the west end of the South new River Canal (C-11). The S-9 structure pumps untreated urban and agricultural stormwater runoff into WCA-3 from the South New River Canal, and pump seepage under Levees 33 and 37 back into WCA 3.

Concern has been expressed in a number of interagency venues regarding the quality of water discharged through S-9. Because S-9 discharges directly into the Everglades Protection Area, these discharges must meet the new Class III Water Quality Standards by 2006. Furthermore, the Modified Waters Deliveries to ENP Project will construct structures (or gaps) in the L-67 levees that will allow water to flow freely from the S-9 discharge point, down the L-67 canal and directly into the relatively pristine WCA-3B. S-9 water quality concerns have surfaced for discussion at meetings of the Governor's Commission, the Everglades Technical Advisory Committee, the SFER Working Group, the Water Quality Task Team for the Southern Everglades Restoration Alliance and through the non-ECP permit process. Representatives of the Miccosukee Indian Tribe have also voiced water quality issues.

This project will include: 1) water quality monitoring in selected reaches of the Western C-11 Canals and analysis of the sediments, 2) development of suitable Best Management Practices in areas where the water quality concerns are identified, 3) structure and/or operational changes to the S-9 structure and the western C-11 basin water management system (e.g., modifications that will allow slower pumping rates so as to not disturb canal sediments), 4) structural or operational changes in the secondary drainage system. Design development is in progress.

**RESTORATION BENEFITS:** This project is one component of a more comprehensive strategy for improving water quality in the Western C-11 Basin Restoration benefits will include: 1) will help to ensure that S-9 discharges meet Class III Water Quality Standards for the Everglades; 2) will reduce phosphorus loading to the Everglades Protection Area which will help to protect the long term ecological integrity of Everglades National Park; 3) will reduce eutrophic impacts within the public Everglades; and 4) will reduce loads of other pollutants (e.g. pesticides, heavy metals, etc.);

Time Line and Fiscal Year Budget (in thousands of dollars) for																
Task	97	98	99	00	01	02	03	04	05	06	07	08	09	10	Unprog	Total
Design																
Land Acquisition																
Project																
			2400	3400	6200	2000										14,000
<b>Subtotal</b>																

<b>TITLE:</b> Palm Beach County Freshwater Chain-of-Lakes Project			
<b>SUBREGION :</b> 4	<b>PROJECT ID:</b> SE45	<b>FINANCIAL REQUIREMENT:</b>	
<b>PROGRAM CATEGORY:</b> Management	<b>BUDGET CATEGORY:</b> Water Quality & Habitat Protection		
<b>PROJECT PLAN MANAGER</b> Janet Phipps 561/233-2443	<b>BASIS:</b> 3	<b>TOTAL:</b> \$6,808,000	
<b>LEAD ORGANIZATION(S):</b> PBCo ERM		<b>APPROPRIATED TO DATE:</b>	
<b>SUPPORTING ORGANIZATION(S):</b> FGFWFC, DEP		\$708,000	
<b>COUNTY(S):</b> Palm Beach County		<b>REMAINING FINANCIAL REQUIREMENT:</b>	
<b>LINKED PROJECTS:</b> Dependent on: Critical to: Associated with:		<b>TOTAL:</b> \$6,100,000	
<b>START:</b> 1998	<b>END:</b> 2003	<b>APPROVED:</b>	<b>LAST REVISION:</b>

**DESCRIPTION:** The 5 freshwater lakes in Palm Beach County (from north to south Pine, Clarke, Osborne, Eden, and Ida) are a valuable resource to the region through tourism, fisheries, and recreational opportunities. These lakes encompassing approximately 661.3 acres are located along the western slope of the coastal ridge and are part of the C-51, C-16, and C-15 drainage basins. Significant alteration and degradation has occurred to these lakes through channelization, urban and residential development, and from discharges of agricultural and urban runoff. These influences have resulted in water quality degradation and habitat loss. Impaired water quality is reflected by very high nutrient concentrations, bacterial contamination, reduced dissolved oxygen concentrations, low water transparencies, algal blooms and exotic weed control problems. To address these issues a resource inventory and development of a restoration and management plan (Task 1) was completed. Within the Plan thirty-two shoreline restoration projects are proposed (Task 2) covering 8.5 miles of shoreline. Water quality monitoring (Task 3) continues with additional monitoring stations. Reducing stormwater sediment loading by retrofitting stormdrains (Task 4) is planned. Managing and monitoring exotic aquatic plants (Task 5) will continue. Additional studies (Task 6) to further define the issues, such as, heavy metal and nutrient loading, coprostanol, and muck deposition will be completed. Preparation of educational materials (Task 7) to increase public awareness and support as well as encourage environmentally sensitive landscape design and management by homeowners and industry will be developed.

**RESTORATION BENEFITS:** Implementation of all the projects within the Plan will result in an improvement of the water quality of the freshwater lakes as well as a significant increase in habitat value for wildlife and for fisheries. Improved fisheries and water quality benefit the biological productivity, aesthetics and angling interests of the lakes for the citizens of Palm Beach County and its visitors.

Southeast Coast- Sub-Region 4

Time Line and Fiscal Year Budget (in thousands of dollars) for Palm Beach County Freshwater Chain-of-Lakes Project																
Task	97	98	99	00	01	02	03	04	05	06	07	08	09	10	Unprog	Total
Task 1	75															75
Task 2	160	200	608	425	634	64	64								2957	3317
						5	5									
Task 3	12	24	24	24	24	24	24								120	156
Task 4				562	563	56	56								2250	2250
						3	2									
Task 5	60	172	150	150	150	15	15								750	982
						0	0									
Task 6	5		9	9											18	23
Task 7			5												5	5
<b>Project</b>																
<b>Subtotal</b>	<b>312</b>	<b>396</b>	<b>796</b>	<b>1170</b>	<b>1371</b>	<b>1382</b>	<b>1381</b>								<b>6100</b>	<b>\$6,808</b>

<b>TITLE:</b> Eastward Ho! Brownfields Partnership			
<b>SUBREGION :</b> 4	<b>PROJECT ID:</b> SE 46np	<b>FINANCIAL REQUIREMENT:</b>	
<b>PROGRAM CATEGORY:</b> Management	<b>BUDGET CATEGORY:</b> Information Management and Assessment		
<b>PROJECT PLAN MANAGER:</b> Terry Manning 954-985-4416	<b>BASIS:</b> 3	<b>TOTAL:</b> \$2,150,000	
<b>LEAD ORGANIZATION(S):</b> SFRPC		<b>APPROPRIATED TO DATE:</b>	
<b>SUPPORTING ORGANIZATION(S):</b> TCRPC, FDCA, USEPA		USEPA \$400,000	
<b>COUNTY(S):</b> Miami-Dade County, Broward County, Palm Beach County		FCDA \$75,000	
<b>LINKED PROJECTS:</b> Dependent on: Critical to: Associated with: SE20		<b>TOTAL:</b> \$475,000	
<b>START:</b> 1998	<b>END:</b> 2000	<b>REMAINING FINANCIAL REQUIREMENT:</b>	
		<b>TOTAL:</b> \$1,675,000	
		<b>APPROVED:</b> 9/98	<b>LAST REVISION:</b> 9/98

**DESCRIPTION:** The Eastward Ho! Brownfields Partnership (the Partnership) is a public-private regional, state, and federal collaboration targeting the remediation and sustainable reuse of urban properties that are abandoned or underutilized due to real or perceived contamination (brownfields). Because brownfields are a significant barrier to redevelopment in the Eastward Ho! Corridor, the Partnership, through its work to remediate and reuse brownfield properties, supports the larger Eastward Ho! Initiative and urban and Everglades restoration strategies. The Partnership's target area is the portion of the Eastward Ho! Corridor lying within Miami-Dade, Broward, and Palm Beach counties. Project activities include the completion of a regional inventory of potential brownfields sites including available information on socio-economic, public health and transportation data; the completion of detailed brownfields site inventories in specific areas within the Eastward Ho! corridor; the development of timely and meaningful community participation in the brownfields redevelopment process, the establishment of financial tools and models for streamlined governmental processes to promote brownfields rehabilitation and redevelopment; and the undertaking of four demonstration projects with federal agencies to apply new resources, programs and technologies to brownfields issues.

**RESTORATION BENEFITS:** The project provides a comprehensive approach to addressing brownfields and redevelopment in the region's urban corridor (Eastward Ho!). The Governor's Commission for a Sustainable South Florida, recommended the Eastward Ho! Initiative as an effort to slow the westward spread of suburban sprawl from Southeast Florida into the Everglades ecosystem. Eastward Ho! promotes infill development and redevelopment in a largely urban 150-mile corridor spanning much of the coastal ridge that forms a barrier between the Atlantic Ocean and the Everglades Basin. The Corridor runs from Fort Pierce in St. Lucie County to Florida City in Miami-Dade County and includes the major metropolitan areas of Miami, Fort Lauderdale, and West Palm Beach. Urban development practices and patterns such as infill development and stormwater programs have a substantial impact on the Biscayne Aquifer, Biscayne National Park, Water Conservation areas, Biscayne Bay, Florida Bay, the Florida Keys and offshore coral reef, and miles of fragile coastal area. The Eastward Ho! Brownfields Partnership recently competed successfully for National Showcase Community status. The selection of Eastward Ho! as a Showcase Community brings with it the promise of collaboration, support and assistance from approximately 20 Federal Agencies including USEPA, HUD, COE, DOT, NOAA/EDA, USDA, GSA and others.

Southeast Coast- Sub-Region 4

Time Line and Fiscal Year Budget (in thousands of dollars) for Eastward Ho! Brownfields Partnership																
Task	97	98	99	00	01	02	03	04	05	06	07	08	09	10	Unprog	Total
Program																
Project																
National Brownfields Showcase Community		400														
FDCA-BF Partnership		75														
<b>Subtotal</b>		475	875	800												<b>\$2,150</b>

<b>TITLE:</b> South Dade Stormwater Treatment and Distribution Area Demonstration Project		
<b>SUBREGION :</b> 4	<b>PROJECT ID:</b> SE47np	<b>FINANCIAL REQUIREMENT:</b>
<b>PROGRAM CATEGORY:</b> Infrastructure	<b>BUDGET CATEGORY:</b> Water Quality	
<b>PROJECT PLAN MANAGER:</b> Lee Hefty (305)372-6860	<b>BASIS:</b>	<b>TOTAL:</b> \$2,136,000
<b>LEAD ORGANIZATION(S):</b> Miami-Dade Co. DERM		<b>APPROPRIATED TO DATE:</b>
<b>SUPPORTING ORGANIZATION(S):</b> SFWMD, DEP		<b>TOTAL:</b> \$2,136,000
<b>COUNTY(S):</b> Miami-Dade County		<b>REMAINING FINANCIAL REQUIREMENT:</b>
<b>LINKED PROJECTS:</b> Dependent on : Critical to : SE06, TS01 Associated with: SE17, SE29		<b>TOTAL:</b> \$0
<b>START:</b> 1996	<b>END:</b> 2001	<b>APPROVED:</b>
		<b>LAST REVISION:</b>

**DESCRIPTION:** To design, construct, and monitor a stormwater treatment wetland demonstration project. The project will demonstrate the effectiveness of the wetland system for improving water quality, providing water storage, and reducing pulse event flows to Biscayne Bay and Biscayne National Park. The project encompasses approximately 80 acres and is located along the Military Canal immediately west of the L-31E levee and borrow canal.

**RESTORATION BENEFITS:** Due to the construction of the C&SF Project in southern Miami-Dade County, freshwater flows to Biscayne Bay have changed radically over what occurred historically. Many agencies have supported the concept of investigating redirecting existing surface discharges at canal mouths to overland flow discharges in order to minimize existing water quality and quantity impacts to the estuaries in southern Biscayne Bay. This project will be used to assess the effectiveness of this concept on a larger, more regional scale.

Time Line and Fiscal Year Budget (in thousands of dollars) for South Dade Stormwater Treatment & Distribution Area Demonstration Project																
Task	97	98	99	00	01	02	03	04	05	06	07	08	09	10	Unprog	Total
Planning	■	■														
Permitting			■													
Construction			■	■	■											
Monitoring	■	■	■	■	■											
<b>Project</b>																
	30	95	223	1625	163											2136
<b>Subtotal</b>	30	95	223	1625	163											<b>\$2,136</b>